

2023 HOUSE APPROPRIATIONS

HB 1020

**Department 630 - NDSU Extension Service
House Bill No. 1020**

Executive Budget Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 Executive Budget	\$33,334,561	\$30,749,341	\$64,083,902
2023-25 Base Level	29,437,823	28,303,921	57,741,744
Increase (Decrease)	\$3,896,738	\$2,445,420	\$6,342,158

Selected Budget Changes Recommended in the Executive Budget

	General Fund	Other Funds	Total
1. Provides funding for state employee salary and benefit increases, of which \$3,173,306 is for salary increases and \$1,432,070 is for health insurance increases	\$2,268,941	\$2,336,435	\$4,605,376
2. Adds funding for the cropping system initiative	\$1,400,000	\$0	\$1,400,000

A summary of the executive budget changes to the agency's base level appropriations is attached as an appendix.

A copy of the draft appropriations bill containing the executive budget recommendations is attached as an appendix.

Selected Bill Sections Recommended in the Executive Budget

Additional income appropriation - Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota State University (NDSU) Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Transfer authority - Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Continuing Appropriations

There are no continuing appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

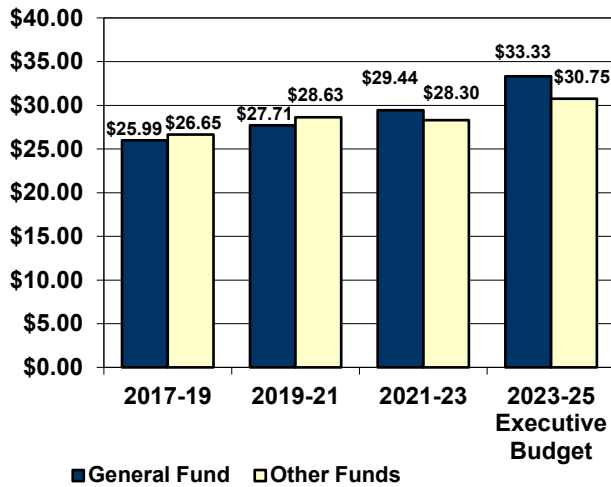
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

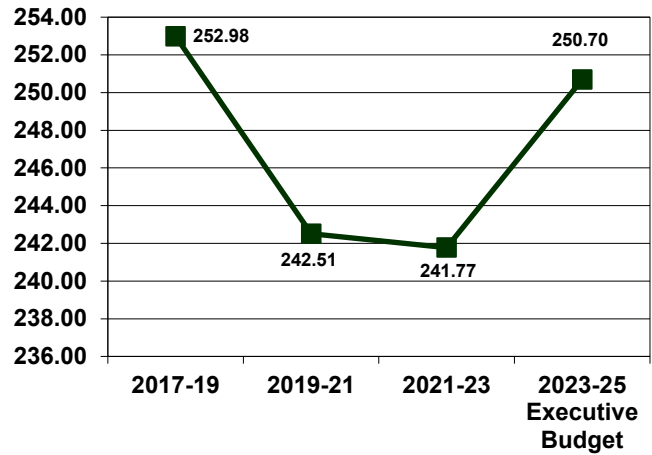
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$27,824,562	\$25,633,320	\$27,709,666	\$29,437,823	\$33,334,561
Increase (decrease) from previous biennium	N/A	(\$2,191,242)	\$2,076,346	\$1,728,157	\$3,896,738
Percentage increase (decrease) from previous biennium	N/A	(7.9%)	8.1%	6.2%	13.2%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(7.9%)	(0.4%)	5.8%	19.8%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Reduced funding for salaries, including removal of 10.93 FTE positions (\$1,619,206)
2. Adjusted funding for operating expenses \$175,557
3. Reduced funding for equipment (\$300,000)
4. Additional unspecified general fund reduction (\$1,096,343)

2019-21 Biennium

1. Reduced funding for salaries and wages (\$125,000)
2. Added funding to provide additional state funds for the costs of county extension agents \$870,000
3. Added funding for miscellaneous expenses \$100,000

2021-23 Biennium

1. Added 1 FTE position and related funding for a big data initiative \$280,000
2. Added 2 FTE positions and related funding for a livestock initiative \$500,000
3. Added funding for the agricultural safety initiative \$240,000
4. Increased funding for soil conservation districts to provide a total of \$1,211,520 \$120,000

2023-25 Biennium (Executive Budget Recommendation)

- Adds funding for a cropping system initiative \$1,400,000

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$12,500	\$360,000	\$0	\$0	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium

Added one-time funding for website and digital upgrades \$345,000

2019-21 Biennium

None \$0

2021-23 Biennium

None \$0

2023-25 Biennium (Executive Budget Recommendation)

None \$0

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation			
	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744
2023-25 Ongoing Funding Changes				
Base payroll changes	8.93	\$227,797	\$108,985	\$336,782
Salary increase		1,551,009	1,622,297	3,173,306
Health insurance increase		717,932	714,138	1,432,070
Adds funding for the cropping system initiative		1,400,000		1,400,000
Total ongoing funding changes	8.93	\$3,896,738	\$2,445,420	\$6,342,158
One-time funding items				
No one-time funding items				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	8.93	\$3,896,738	\$2,445,420	\$6,342,158
2023-25 Total Funding	250.70	\$33,334,561	\$30,749,341	\$64,083,902
<i>Federal funds included in other funds</i>			<i>\$9,458,045</i>	
<i>Total ongoing changes as a percentage of base level</i>	<i>3.7%</i>	<i>13.2%</i>	<i>8.6%</i>	<i>11.0%</i>
<i>Total changes as a percentage of base level</i>	<i>3.7%</i>	<i>13.2%</i>	<i>8.6%</i>	<i>11.0%</i>

Other Sections in NDSU Extension Service - Budget No. 630

	Executive Budget Recommendation
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

**HOUSE BILL NO. 1020
(Governor's Recommendation)**

Introduced by

Appropriations Committee

(At the request of the Governor)

A bill for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a transfer; and to provide an exemption.

BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:

SECTION 1. APPROPRIATION. The funds provided in this section, or so much of the funds as may be necessary, are appropriated out of any moneys in the general fund in the state treasury, not otherwise appropriated, and from special funds derived from federal funds and other income, to the North Dakota state university extension service, the northern crops institute, the upper great plains transportation institute, the main research center, branch research centers, and agronomy seed farm for the purpose of defraying the expenses of the North Dakota state university extension service, the northern crops institute, the upper great plains transportation institute, the main research center, branch research centers, and agronomy seed farm, for the biennium beginning July 1, 2023 and ending June 30, 2025, as follows:

Subdivision 1.

NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension Service	\$56,530,224	\$6,342,158	\$62,872,382
Soil Conservation Committee	1,211,520	0	1,211,520
Total All Funds	\$57,741,744	\$6,342,158	\$64,083,902
Less Estimated Income	28,303,921	2,445,420	30,749,341
Total General Fund	\$29,437,823	\$3,896,738	\$33,334,561
Full-Time Equivalent Positions	241.77	8.93	250.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern Crops Institute	\$3,909,760	\$5,760,258	\$9,670,018
Total All Funds	\$3,909,760	\$5,760,258	\$9,670,018
Less Estimated Income	1,922,618	5,578,507	7,501,125
Total General Fund	\$1,987,142	\$181,751	\$2,168,893
Full-Time Equivalent Positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper Great Plains Transportation Inst	\$23,527,957	\$1,501,477	\$25,029,434
Total All Funds	\$23,527,957	\$1,501,477	\$25,029,434
Less Estimated Income	19,042,350	763,773	19,806,123
Total General Fund	\$ 4,485,607	\$737,704	\$ 5,223,311
Full-Time Equivalent Positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main Research Center	\$111,676,188	\$12,230,687	\$123,906,875
Total All Funds	\$111,676,188	\$12,230,687	\$123,906,875
Less Estimated Income	<u>57,087,956</u>	<u>5,139,753</u>	<u>62,227,709</u>
Total General Fund	\$ 54,588,232	\$7,090,934	\$ 61,679,166
Full-Time Equivalent Positions	334.56	22.91	357.47

Subdivision 5.

RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson Research Center	\$ 7,078,838	\$253,676	\$ 7,332,514
Central Grasslands Research Center	3,553,320	143,955	3,697,275
Hettinger Research Center	5,174,885	276,157	5,451,042
Langdon Research Center	3,091,310	171,639	3,262,949
North Central Research Center	5,203,251	226,560	5,429,811
Williston Research Center	5,362,734	295,863	5,658,597
Carrington Research Center	<u>9,827,963</u>	<u>549,185</u>	<u>10,377,148</u>
Total All Funds	\$39,292,301	\$1,917,035	\$41,209,336
Less Estimated Income	<u>20,722,818</u>	<u>547,859</u>	<u>21,270,677</u>
Total General Fund	\$18,569,483	\$1,369,176	\$19,938,659
Full-Time Equivalent Positions	108.21	1.60	109.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy Seed Farm	\$1,579,655	\$58,421	\$1,638,076
Total Special Funds	\$1,579,655	\$58,421	\$1,638,076
Full-Time Equivalent Positions	3.00	0.00	3.00

Subdivision 7.

BILL TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand Total General Fund	\$109,068,287	\$13,276,303	\$122,344,590
Grand Total Other Funds	<u>128,659,318</u>	<u>14,533,733</u>	<u>143,193,051</u>
Grand Total All Funds	\$237,727,605	\$27,810,036	\$265,537,641

SECTION 2. ONE-TIME FUNDING. The following amounts reflect the one-time funding items approved by the sixty-seventh legislative assembly for the 2021-23 biennium and the 2023-25 one-time funding items included in the appropriation in section 1 of this Act:

<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
Deferred Maintenance	\$ 500,000	\$ 720,000
Carrington Research Extension Center Capital Projects	1,221,000	0
Central Grasslands Research Extension Center Capital Projects	2,488,000	0
Hettinger Research Extension Center Capital Projects	3,720,000	0
Langdon Research Extension Center Capital Projects	473,000	0
Dickinson Research Extension Center Capital Projects	2,200,000	0
Remote Sensing of Infrastructure	2,225,000	0
Agricultural Experiment Station Equipment Storage Sheds	0	1,900,000
Northern Crops Institute Feed Center	0	3,900,000
Transportation Data Intelligence Center	0	432,600
Total All Funds	<u>\$12,827,000</u>	<u>\$6,952,600</u>
Total Other Funds	<u>12,327,000</u>	<u>6,520,000</u>
Total General Fund	<u>\$ 500,000</u>	<u>\$432,600</u>

SECTION 3. ADDITIONAL INCOME - APPROPRIATION. In addition to the amount included in the grand total special funds appropriation line item in section 1 of this Act, any other income, including funds from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota state university extension service, the northern crops institute, the upper great plains transportation institute, the main research center, branch research centers, and agronomy seed farm, except as otherwise provided by law, is appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium beginning July 1, 2023 and ending June 30, 2025.

SECTION 4. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS INCOME. The Dickinson research extension center may spend up to \$755,000 of revenues received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the biennium beginning July 1, 2023 and ending June 30, 2025.

SECTION 5. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS INCOME - REPORT. The Williston research extension center shall report to the sixty-ninth legislative assembly on amounts received and spent from mineral royalties, leases, or easements in the biennium beginning July 1, 2021, and ending June 30, 2023 and the biennium beginning July 1, 2023 and ending June 30, 2025.

SECTION 6. EXEMPTION - TRANSFER AUTHORITY. Upon approval of the state board of agricultural research and education and appropriate branch research center directors, the director of the main research center may transfer appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act. Any amounts transferred must be reported to the director of the office of management and budget.

SECTION 7. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS. The state board of higher education may adjust or increase full-time equivalent positions as needed for the entities in section 1 of this Act, subject to availability of funds. The board shall report any adjustments to the office of management and budget pursuant to this section.

SECTION 8. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME. Any unexpended general fund appropriation authority available to and any excess income received by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or revenues are available and may be expended by those entities, during the biennium beginning July 1, 2025 and ending June 30, 2027.

SECTION 9. EXEMPTION. The \$775,000 of other funds appropriated for the Carrington research extension center capital projects, the \$525,000 of other funds appropriated for the central grasslands research extension center capital projects, and the \$473,000 of other funds appropriated for the Langdon research extension center capital projects subdivision 4 of section 1 of chapter 48 of the 2021 Sessions Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023 and ending June 30, 2025.

SECTION 10. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND – NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed center. The estimated income line in subdivision 4 of section 1 of this Act includes the sum of \$2,620,000 from the strategic investment and improvements fund for agricultural experiment station equipment storage sheds.

SECTION 11. EXEMPTION – FEDERAL STATE FISCAL RECOVERY FUND. The \$446,000 appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center in section 6 of chapter 550 of the 2021 Sessions Laws, the \$1,963,000 appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the central grasslands research center in section 6 of chapter 550 of the 2021 Sessions Laws, the \$2,200,000 appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Dickinson research center in section 6 of chapter 550 of the 2021 Sessions Laws, and the \$3,420,000 appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Hettinger research center in section 6 of chapter 550 of the 2021 Sessions Laws, is not subject to section 54-44.1-11, and any unspent funds from these programs are available for the programs during the biennium beginning July 1, 2023 and ending June 30, 2025.

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB1020
1/16/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the industrial commission and the agencies under its control; to provide for a transfer; and to provide an exemption.

8:31 AM Chairman Monson: Opened the hearing on HB1020, roll call was taken:

Members present: Monson, Brandenburg, Bellew, Kempenich, Meier, Pyle, Mock

Discussion Topics:

- Agriculture Industry
- Plant Production & Protection
- Climate Smart Agriculture
- Seed Farm
- 4-H

David Cook- President, NDSU- Testifies in favor of HB 1020

Sarah Lovas- Chair SBARE- Testifies in favor of HB 1020 (Testimony #13324)

Gregory Lardy- NDSU Extension Director- Testifies in favor (Testimony # 13393)

9:12 Mike Ostlie- NDSU Carrington Research Extension Center- Testifies in favor (Testimony # 13224)

Mike Sedives- North Dakota State University- Testifies in favor (Testimony #13269 #13267)

Christopher Augustin- NDSU Dickinson Research Extension Center- Testifies in favor of HB 1020 (Testimony #13218)

Chris Schauer- NDSU Hettinger/Willison Research Extension Centers- Testifies in favor of HB1020 (Testimony # 13319)

9:40 Randy Mehlhoff Agricultural Research & Extension Service- Testifies in favor (Testimony # 13189)

Shana Forster- Director of the NDSU North Central Research Extension Center- Minot- Testifies in favor of HB 1020 (Testimony #13200)

Chris Schauer- Acting Director Willison Research Extension Centers- Testifies in Favor of HB 1020 (Testimony #13318)

Brian Otteson- NDSU Agronomy Seed Farm- Testifies in favor of HB 1020 (Testimony # 13192)

Jayce Doan- Black Leg Ranch Advisory Board Member Central Grassland Research & extension Center- Testifies in favor of HB 1020 (Testimony # 13270)

Jade Kessel- North Dakota Grain Growers Association- Testifies in favor of HB 1020 (# 13292)

Curt Stanley- ND Lamb & Wool Producers Association – Testifies in favor of HB 1020 (Testimony # 13436)

Greg Goodman- Langdon Research Center Advisory Board- Testifies in favor of HB 1020 (Testimony # 13208)

Gregory Marshall- NCREC Advisory Board- Testifies in favor of HB 1020 (Testimony # 13412)

Tom Wheeler- Chairman of the Joint Advisory Committee of Williston Research Extension Center- Testifies in favor of HB 1020 (Testimony #13498)

Donnie Buckmier – CREC Testifies in favor of HB 1020 (Testimony # 13340)

Leah Mehling- Grand Forks County 4-H – Testifies in favor of HB 1020 (Testimony # 13545)

Samantha Springer- Burleigh County 4-H Testifies in favor of HB 1020 (Testimony # 13549)

Nathan Springer- Burleigh County 4-H Testifies in favor of HB 1020 (Testimony #13547)

Madalyn Meckle- Burleigh County 4-H Testifies in favor of HB 1020 (Testimony #13544)

Monte Peterson- ND Soybean Growers Association- Testifies in favor of HB 1020 (Testimony #13313)

Ed Kessel- ND Grain Growers Association- Testifies in favor of HB 1020 (Testimony # 13364)

Brian Leier- ND Corn Growers Association- Testifies in favor of HB 1020
(Testimony #13391)

Mark Watne- President ND Farmers Union, Velva- Testifies in favor of HB 1020
(Testimony # 13365)

Brian Amundson- ND AG Coalition- Testifies in favor of HB 1020 (Testimony #
13359)

Lance Hill Chairman Advisory Council- Testifies in favor of HB1020.

**Steve Lee- McClean County Commissioner & ND Association of Counties
President-** Testifies in favor of HB 1020 (Testimony #13534)

Wes Frederick- State Soil Conservation Committee Chair – Testifies in favor of
HB 1020 (Testimony #13537)

Erick Ericksmoen, NDSU NCREC Testifies in opposition of HB 1020

Julie Ellingson- ND Stockman's Association- Testifies in favor of HB 1020
(Testimony #14632)

Additional Testimony: Katherine Grindberg- Executive VP FMWF Chamber of
Commerce #13368, Steve Perdue- Farmer from Ray #13361, Dana Bohn- ND
Farm Credit Council Executive Director #13283, Tim Hiatt- ND Resident #13278,
Northern Canola Growers Association #13260, Jim Pellman- Vice Chair, ND Wheat
Commission #13258, Steve Hansen- Chairman of ND Irrigation Association #13291,
Phil Murphy- Research & Extension #12935, Phil Murphy ND Soybean Growers
Association #16202, Phil Murphy- NDSGA #12933, #16205, Phil Murphy Agronomy
Seed Farm #12934, Amanda Remyse- NDMCA #13354, Corrie Enander- Enander
Seed Farm #13487, Scott Meske- ND Transportation Coalition #13438, Andrea
Pfennig- Greater ND Chamber #13355, Ann Kvande- Executive Officer #13225,
Donavon Johnson- President Northland Potato Growers Association #13099, Luke
Anderson- Anderson Seed Farms #13230, Northern Crops Institute #13317 &
Keith Peltier SBARE #13312

12:05 PM Chairman Monson Closed the meeting for HB 1020

Risa Berube Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB1020
1/16/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the industrial commission and the agencies under its control; to provide for a transfer; and to provide an exemption.

2:12PM Chairman Monson: Opened the hearing on HB 1020

Members present: Monson, Brandenburg, Bellew, Kempenich, Meier, Pyle, Mock

Discussion Topics:

- Northern Crops Institute
- Upper Great Plains Transportation Institute

2:13 Mark Jirik, Director Northern Crops Institute Testifies in favor of HB 1020 (Testimony # 13582)

2:33 David Cook President NDSU- Testifies in Favor

Denver Tolliver, Director of Upper Great Plains Transportation Institute- Testifies in favor of HB 1020 (Testimony #13479)

3:25 Chad Orn- Director of Project Development for the North Dakota Department of Transportation- Testifies in favor of HB 1020 (Testimony # 13486)

Geoff Simon- WESTERN Dakota Energy Association- Testifies in favor of HB 1020 (Testimony # 13424)

Larry Syverson NDTOA- Oral testimony if favor of HB 1020

Scott Meske ND Transportation Coalition -Testifies in Favor of HB 1020 (Testimony # 13438)

Camborn Shepard- Testifies orally in favor of HB 1020

4:00 PM Chairman Monson- Closed the meeting for HB 1020

Risa Berube Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB1020
1/17/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the industrial commission and the agencies under its control; to provide for a transfer; and to provide an exemption.

8:34 AM Chairman Monson: Opened the hearing on HB1020

Members present: Chairman Monson, Vice Chair Brandenburg, Rep Bellew, Rep Kempenich, Rep Meier, Rep Pyle, Rep Mock

Discussion Topics:

- SBARE
- 4-H and Clover Buds
- Master gardener program
- Steal sheds and pole building storage

Sara Lovas, Chair of SBARE Testifies in favor of HB 1020 (#13324).

Greg Lardy, Director NDAES shared Ed Kessel's video, Written testimony (#13393)
<https://ndlegis.gov/downloads/bill-history-media-file/68-2023/happgo/happgo-01172023-HB1020-Lardy.mp4>

9:50 AM Chairman Monson closed the meeting.

Amy Liepke, Committee Clerk By: Leah Kuball

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB1020
1/25/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the industrial commission and the agencies under its control; to provide for a transfer; and to provide an exemption.

2:26 PM Chairman Monson: Opened the hearing on HB1020.

Members present: Chairman Monson, Vice Chair Brandenburg, Rep Bellew, Rep Kempenich, Rep Meier, Rep Pyle, Rep Mock

Discussion Topics:

- NDSU Initiatives extension
- ND Agricultural Experiment Station
- NDSU storage building
- SBARE

Greg Lardy, Director NDSU Extension testimony – (#17632, # 17631)

Chairman Monson, Offer an amendment (Testimony #17634)

Tom Wheeler, Chairman, Joint Advisory Committee, Williston Research Extension Center – (Testimony #17634)

Representative Monson. Testimony – (Testimony #17630)

Rocky Batemen, ND Soil Conservations, (Testimony #17637)

4:08 PM Chairman Monson closed the meeting.

Amy Liepke, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynild Haugland Room, State Capitol

HB 1020
1/31/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

8:37 AM Chairman Monson opened the meeting.

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Bellew, Rep. Kempenich, Rep. Meier, Rep. Pyle, Rep. Mock

Discussion Topics:

- Carbon Capture
- Pipelines
- Details of UGPTI Budget
- Budget 627 & 628
- Seed cleaning

Denver Tolliver - Director - NDSU Upper Great Plains Transportation Institute, provided oral testimony in favor. (#18111, #18105)

Greg Lardy, Vice President of Agricultural Affairs, Provided oral testimony in favor (#18128) (#18099)

Mark Jirik, Director of the Northern Corps Institute NDSU, Provided oral testimony in support

Tom Wheeler - Chairman - Joint Advisory Committee of Williston Research Extension Center Provided written testimony in support (#17634)

Greg Lardy Vice President of Agricultural Affairs, Testimony in support (#18148)

Mark Jirik, Director of the Northern Corps Institute NDSU, Testified in support of budget 638 (#18166)

Greg Lardy, Vice President of Agricultural Affairs, Provided testimony in support to budget 640 (#18170) (#18171)

Chairman Monson adjourned meeting at 12:01 PM

Amy Liepke, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
1/31/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson called meeting to order at 2:47 PM

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Bellew, Rep. Kempenich, Rep. Meier, Rep. Pyle, Rep. Mock

Discussion Topics:

- Big Data initiative
- Dickinson project

Lynette Flage, Associate Director of NDSU extension, Oral testimony

Greg Lardy, Vice President for NDSU agricultural extension, oral testimony.

3:24 PM Chairman Monson closed the meeting.

Amy Liepke, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
2/7/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson opened the meeting at 2:52 PM

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Bellew, Rep. Kempenich, Rep. Meier, Rep. Pyle, Rep. Mock

Discussion Topics:

- CO2 Pipeline
- Budget 627,630, 628, 638, 649, 640
- Proposed amendment.

Vice Chairman Brandenburg, Budget 627 (#19629)

Denver Toliver, Upper Great Pains Transportation Institute, Verbally answered questions of the committee

Vice Chairman Brandenburg, Budget 628 (#19634)

Greg Lardy, NDSU Vice President for Agricultural Affairs, verbally answered questions of the committee.

Representative Bellew questions FTE's in budget 630 –(#19639)

Greg Lardy, NDSU Vice President for Agricultural Affairs, verbally answered questions of the committee.

Chairman Monson discussed the budget 638 – (#19655)

Mark Jyrki, Director of the Norther crops Institute, testified in favor of the bill. (#19655)

Chairman Monson discussed the budget #649 (#19661)

Rep. Brandenburg discussed the budget #640 (#19662)

Greg Lardy, NDSU Vice President for Agricultural Affairs, provided verbal clarification.

Chairman Monson closes hearing at 5:13 PM

House Appropriations - Government Operations Division
HB 1020
02/07/23
Page 2

Leah Kuball, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
2/10/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

10:06 AM Chairman Monson opened the meeting.

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Bellew, Rep. Kempenich, Rep. Meier, Rep. Pyle, Rep. Mock

Discussion Topics:

- HB 1020 Legislative Council [23.0249.01004] - #20394

Rep Brandenburg explained the amendment and took committee through it. [23.0249.01004] - #20394

Greg Lardy, Vice President of Agricultural Affairs, verbal testimony in support. Provided clarification to the amendment.

Rep. Brandenburg moved to adopt the amendment.

Rep. Meier seconded the amendment.

Role Call Vote

Representatives	Vote
Representative David Monson	Y
Representative Mike Brandenburg	Y
Representative Larry Bellew	N
Representative Keith Kempenich	Y
Representative Lisa Meier	Y
Representative Corey Mock	Y
Representative Brandy Pyle	Y

6-1-0 Motion Carries

Rep Brandenburg moves Do Pass as amended.

Representative Meier seconded the do pass.

Role Call Vote

Representatives	Vote
Representative David Monson	Y
Representative Mike Brandenburg	Y
Representative Larry Bellew	N
Representative Keith Kempenich	Y
Representative Lisa Meier	Y
Representative Corey Mock	Y
Representative Brandy Pyle	Y

6-1-0 Motion carries

Additional Testimony: #20304, #20305, #20396

10:56 AM Chairman Monson closed the meeting.

Amy Liepke, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations Committee Brynhild Haugland Room, State Capitol

HB 1020
2/16/2023

BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption.

8:41 AM Chairman Vigesaa- Meeting was called to order and roll call was taken:

All Members Present; Chairman Vigesaa, Representative Kempenich, Representative B. Anderson, Representative Bellew, Representative Brandenburg, Representative Hanson, Representative Kreidt, Representative Martinson, Representative Mitskog, Representative Meier, Representative Mock, Representative Monson, Representative Nathe, Representative J. Nelson, Representative O'Brien, Representative Pyle, Representative Richter, Representative Sanford, Representative Schatz, Representative Schobinger, Representative Strinden, Representative G. Stemen and Representative Swiontek.

Discussion Topics:

- Amendment

Representative Brandenburg Give the statement of purpose and amendment 23.0249.01004 (Testimony #20984)

Representative Brandenburg Move to adopt the amendment.

Representative Monson Seconds the motion.

Committee discussion- Roll call vote

Representatives	Vote
Representative Don Vigesaa	Y
Representative Keith Kempenich	Y
Representative Bert Anderson	Y
Representative Larry Bellew	N
Representative Mike Brandenburg	Y
Representative Karla Rose Hanson	Y
Representative Gary Kreidt	Y
Representative Bob Martinson	Y
Representative Lisa Meier	Y
Representative Alisa Mitskog	Y
Representative Corey Mock	Y
Representative David Monson	Y
Representative Mike Nathe	Y
Representative Jon O. Nelson	N

Representative Emily O'Brien	Y
Representative Brandy Pyle	Y
Representative David Richter	Y
Representative Mark Sanford	Y
Representative Mike Schatz	N
Representative Randy A. Schobinger	Y
Representative Greg Stemen	Y
Representative Michelle Strinden	Y
Representative Steve Swiontek	Y

Motion carries 20-3-0

Representative Brandenburg – Move for a Do Pass as Amended

Representative Monson- Seconds the motion.

Committee discussion- Roll call vote

Representatives	Vote
Representative Don Vigesaa	Y
Representative Keith Kempenich	Y
Representative Bert Anderson	Y
Representative Larry Bellew	N
Representative Mike Brandenburg	Y
Representative Karla Rose Hanson	Y
Representative Gary Kreidt	Y
Representative Bob Martinson	Y
Representative Lisa Meier	Y
Representative Alisa Mitskog	Y
Representative Corey Mock	Y
Representative David Monson	Y
Representative Mike Nathe	Y
Representative Jon O. Nelson	N
Representative Emily O'Brien	Y
Representative Brandy Pyle	Y
Representative David Richter	Y
Representative Mark Sanford	Y
Representative Mike Schatz	Y
Representative Randy A. Schobinger	Y
Representative Greg Stemen	Y
Representative Michelle Strinden	Y
Representative Steve Swiontek	Y

Motion Carries 21-2-0 Representative Brandenburg will carry the bill.

9:28 AM Chairman Vigesaa Closed the meeting for HB 1020

Risa Berube, Committee Clerk

PROPOSED AMENDMENTS TO HOUSE BILL NO. 1020

*Att
2-16-23*

Page 1, line 4, replace "and" with "to provide for a transfer;"

Page 1, line 4, after "exemption" insert "; and to declare an emergency"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

" NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$6,094,267	\$62,624,491
Soil conservation committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
Full-time equivalent positions	241.77	13.93	255.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
Total general fund	\$1,987,142	\$169,396	\$2,156,538
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	<u>19,042,350</u>	<u>1,058,021</u>	<u>20,100,371</u>
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$223,899,261
Less estimated income	<u>57,087,956</u>	<u>103,473,971</u>	<u>160,561,927</u>
Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
Full-time equivalent positions	334.56	27.91	362.47

*Act
2-16-23*

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
Central grasslands research center	3,553,320	115,371	3,668,691
Hettinger research center	5,174,885	233,889	5,408,774
Langdon research center	3,091,310	394,636	3,485,946
North Central research center	5,203,251	184,131	5,387,382
Williston research center	5,362,734	245,458	5,608,192
Carrington research center	<u>9,827,963</u>	<u>463,191</u>	<u>10,291,154</u>
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	<u>20,722,818</u>	<u>459,658</u>	<u>21,182,476</u>
Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
Full-time equivalent positions	108.21	2.60	110.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$49,139</u>	<u>\$1,628,794</u>
Total special funds	\$1,579,655	\$49,139	\$1,628,794
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
Grand total other funds	<u>128,659,318</u>	<u>112,671,709</u>	<u>241,331,027</u>
Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559"

Page 3, line 29, after "FUNDING" insert "- EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-NINTH LEGISLATIVE ASSEMBLY"

Page 3, line 30, after "biennium" insert "and the 2023-25 biennium one-time funding items included in section 1 of this Act"

Page 4, replace line 2 with:

"Deferred maintenance	\$500,000	\$500,000
Transportation data intelligence center	0	432,600
Multimodal carbon dioxide transportation study	0	398,450
Northern crops institute feed production center facility upgrade	0	3,250,000
Pellet mill	0	650,000
Storage sheds	0	1,900,000
Nesson Valley irrigation research site project	0	1,200,000
Branch research extension centers capital projects inflation	0	2,933,230
Hettinger research extension center land purchase	0	1,038,000
Waldron Hall replacement project	0	97,000,000"

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21623

Page 4, replace lines 10 through 12 with:

"Total all funds	\$12,827,000	\$109,302,280
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,606,680

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025."

Page 4, after line 30, insert:

"SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act includes the sum of \$99,400,000 from the strategic investment and improvements fund for the Waldron Hall replacement project, storage sheds, and deferred maintenance.

SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND - NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND AUTHORIZED. The appropriation in subdivision 4 of section 1 of this Act includes the sum of \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of real property for the Hettinger research center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The Hettinger research center shall make payments in lieu of property taxes in the manner and according to the conditions and procedures that would apply if the property were privately owned. The North Dakota state university main research center is authorized to purchase four parcels of land in Adams County, described as:

1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
2. A tract of land in the northeast quarter of the southeast quarter of section 13, township 129 north, range 96, Adams County;

3. The southeast quarter of the southeast quarter of section 13, the north half of the northeast quarter of section 24, township 129 north, range 96, Adams County; and
4. The north half of the north half of section 19, township 129 north, range 95, Adams County."

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2-16-23

Page 5, after line 16, insert:

"SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.

The amounts appropriated from other funds for Carrington research center capital projects, central grasslands research center capital projects, and Langdon research center capital projects in subdivision 4 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL STATE FISCAL RECOVERY FUND.

The amounts appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center, central grasslands research center, Dickinson research center, and Hettinger research center in section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT CONSTRUCTION.

The main research center, for its use of the \$2,400,000 appropriated from the strategic investment and improvements fund for deferred maintenance and branch research center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main research center may spend this funding without procuring plans, drawings, and specifications from an architect or engineer.

SECTION 14. EMERGENCY. The \$250,000 appropriated from the general fund for a spud research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency measure."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of House Action

	Base Budget	House Changes	House Version
Transportation Institute			
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88
Branch Research Centers			
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

NDSU Extension Service			
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70
Northern Crops Institute			
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15
Main Research Center			
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47
Agronomy Seed Farm			
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00
Bill total			
Total all funds	\$237,727,605	\$129,103,954	\$366,831,559
Less estimated income	128,659,318	112,671,709	241,331,027
General fund	\$109,068,287	\$16,432,245	\$125,500,532
FTE	744.97	49.04	794.01

AG
2/16/23

House Bill No. 1020 - Transportation Institute - House Action

	Base Budget	House Changes	House Version
Upper Great Plains Trans. Institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for Freight Transportation and Logistics Surveys ³	Adds One-Time Funding for a Transportation Data Center ⁴	Adds One-Time Funding for Carbon Dioxide Study ⁵	Total House Changes
Upper Great Plains Trans. Institute	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Total all funds	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Less estimated income	77,856	547,565	0	432,600	0	1,058,021
General fund	\$0	\$243,904	\$300,000	\$0	\$398,450	\$942,354
FTE	0.00	0.00	0.00	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$174,237	\$404,585	\$578,822
Health insurance increase	69,667	142,980	212,647
Total	\$243,904	\$547,565	\$791,469

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2-16-23

³ Funding of \$300,000 from the general fund is added for freight transportation and logistics surveys.

⁴ One-time funding of \$432,600 from the strategic investment and improvements fund (SIIF) is added for a transportation data intelligence center.

⁵ One-time funding of \$398,450 from the general fund is added to study multimodal carbon dioxide transportation.

House Bill No. 1020 - Branch Research Centers - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Dickinson Research Center	\$7,078,838	\$214,700	\$7,293,538
Central Grasslands Research Center	3,553,320	115,371	3,668,691
Hettinger Research Center	5,174,885	233,889	5,408,774
Langdon Research Center	3,091,310	394,636	3,485,946
North Central Research Center	5,203,251	184,131	5,387,382
Williston Research Center	5,362,734	245,458	5,608,192
Carrington Research Center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

Department 628 - Branch Research Centers - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Reduces Funding for Bond Payments³</u>	<u>Adds Funding for a Technician FTE Position⁴</u>	<u>Total House Changes</u>
Dickinson Research Center	\$19,612	\$195,088			\$214,700
Central Grasslands Research Center	9,255	130,142	(\$24,026)		115,371
Hettinger Research Center	20,099	213,790			233,889
Langdon Research Center	13,531	131,105		\$250,000	394,636
North Central Research Center	17,989	205,289	(39,147)		184,131
Williston Research Center	22,154	223,304			245,458
Carrington Research Center	37,820	425,371			463,191
Total all funds	\$140,460	\$1,524,089	(\$63,173)	\$250,000	\$1,851,376
Less estimated income	18,337	441,321	0	0	459,658
General fund	\$122,123	\$1,082,768	(\$63,173)	\$250,000	\$1,391,718
FTE	1.60	0.00	0.00	1.00	2.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$121,415	\$0	\$121,415
Health insurance increase	<u>73,673</u>	<u>0</u>	<u>73,673</u>
Total	\$195,088	\$0	\$195,088
Central Grasslands Research Center			
Salary increase	\$68,822	\$19,232	\$88,054
Health insurance increase	<u>39,459</u>	<u>2,629</u>	<u>42,088</u>
Total	\$108,281	\$21,861	\$130,142
Hettinger Research Center			
Salary increase	\$101,119	\$31,571	\$132,690
Health insurance increase	<u>48,112</u>	<u>32,988</u>	<u>81,100</u>
Total	\$149,231	\$64,559	\$213,790
Langdon Research Center			
Salary increase	\$62,693	\$21,055	\$83,748
Health insurance increase	<u>33,370</u>	<u>13,987</u>	<u>47,357</u>
Total	\$96,063	\$35,042	\$131,105
North Central Research Center			
Salary increase	\$75,026	\$56,599	\$131,625
Health insurance increase	<u>40,476</u>	<u>33,188</u>	<u>73,664</u>
Total	\$115,502	\$89,787	\$205,289
Williston Research Center			
Salary increase	\$136,697	\$18,197	\$154,894
Health insurance increase	<u>57,886</u>	<u>10,524</u>	<u>68,410</u>
Total	\$194,583	\$28,721	\$223,304
Carrington Research Center			
Salary increase	\$138,405	\$129,112	\$267,517
Health insurance increase	<u>85,615</u>	<u>72,239</u>	<u>157,854</u>
Total	\$224,020	\$201,351	\$425,371
Total Branch Research Centers			
Salary increase	\$704,177	\$275,766	\$979,943
Health insurance increase	<u>378,591</u>	<u>165,555</u>	<u>544,146</u>
Total	\$1,082,768	\$441,321	\$1,524,089

*ALC
2/16/23*

³ Funding of \$63,173 is reduced from the general fund, including \$24,026 from the Central Grasslands Research Center and \$39,147 from the North Central Research Center, for bond payments, to provide a total of \$63,728 for bond payments for the 2023-25 biennium.

⁴ Funding of \$250,000 from the general fund is added for a new FTE technician position to research clubroot fungus at the Langdon Research Center.

House Bill No. 1020 - NDSU Extension Service - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Extension Service	\$56,530,224	\$6,094,267	\$62,624,491
Soil Conservation Committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70

Department 630 - NDSU Extension Service - Detail of House Changes

*AKC
2-16-23*

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Cropping System Initiative ³	Adds Funding for the Livestock Development Initiative ⁴	Adds Funding for Farm and Ranch Safety ⁵	Adds Funding for 4-H ⁶
Extension Service	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Soil Conservation Committee						
Total all funds	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Less estimated income	108,985	1,955,607	0	0	0	0
General fund	\$227,797	\$1,881,878	\$700,000	\$500,000	\$250,000	\$320,000
FTE	8.93	0.00	2.00	2.00	0.00	1.00

	Adds Funding for Extension and Soil Conservation Committee Operations ⁷	Total House Changes ¹
Extension Service	\$150,000	\$6,094,267
Soil Conservation Committee	150,000	150,000
Total all funds	\$300,000	\$6,244,267
Less estimated income	0	2,064,592
General fund	\$300,000	\$4,179,675
FTE	0.00	13.93

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$1,158,661	\$1,213,811	\$2,372,472
Health insurance increase	723,217	741,796	1,465,013
Total	\$1,881,878	\$1,955,607	\$3,837,485

³ Funding of \$700,000 from the general fund is added for 2 new FTE positions, including a soybean pathologist and a weed specialist, for the cropping system initiative.

⁴ Funding of \$500,000 from the general fund is added for 2 new FTE positions, including a veterinary epidemiologist and a swine specialist, for the livestock development initiative.

⁵ Funding of \$250,000 from the general fund is added for the farm and ranch safety and health initiative.

⁶ Funding of \$320,000 from the general fund is added for 1 new FTE position for the program support for the 4-H initiative.

⁷ Funding of \$300,000 from the general fund is added for operations support, including \$150,000 for the Extension Service and \$150,000 for the state soil conservation committee.

House Bill No. 1020 - Northern Crops Institute - House Action

	Base Budget	House Changes	House Version
Northern Crops Institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15

Department 638 - Northern Crops Institute - Detail of House Changes

*AG
2-16-23*

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Increases Funding to Reflect Available Special Funds ³	Adds One-Time Funding ⁴	Total House Changes
Northern Crops Institute	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Total all funds	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Less estimated income	16,610	149,718	1,500,000	3,900,000	5,566,328
General fund	\$16,505	\$152,891	\$0	\$0	\$169,396
FTE	4.60	0.00	0.00	0.00	4.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$98,273	\$102,187	\$200,460
Health insurance increase	54,618	47,531	102,149
Total	\$152,891	\$149,718	\$302,609

³ Funding of \$1.5 million from other funds is added to reflect special funds available to the agency.

⁴ One-time funding is added from SIIF for the Northern Crops Institute Feed Production Center facility upgrade (\$3,250,000) and a new pellet mill (\$650,000).

House Bill No. 1020 - Main Research Center - House Action

	Base Budget	House Changes	House Version
Main Research Center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47

Department 640 - Main Research Center - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Big Data Initiative ³	Adds Funding for Climate Smart Agriculture ⁴	Adds Funding for Bee and Apiary Research ⁵	Adds funding for the Spud Research Fast Track ⁶
Main Research Center	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Total all funds	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Less estimated income	117,136	1,993,835	0	0	0	0
General fund	\$392,772	\$3,726,969	\$469,000	\$458,200	\$262,000	\$250,000
FTE	22.91	0.00	1.00	2.00	1.00	1.00

	Adds Funding for Operations ⁷	Reduces Funding for Bond Payments ⁸	Adds One-Time Funding ⁹	Total House Changes
Main Research Center	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Total all funds	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Less estimated income	0	0	101,363,000	103,473,971
General fund	\$1,160,000	(\$178,069)	\$3,208,230	\$9,749,102
FTE	0.00	0.00	0.00	27.91

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¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$2,403,437	\$1,264,212	\$3,667,649
Health insurance increase	1,323,532	729,623	2,053,155
Total	\$3,726,969	\$1,993,835	\$5,720,804

³ Funding of \$469,000 from the general fund is added for a new FTE position and operating expenses for the big data initiative.

⁴ Funding of \$458,200 from the general fund is added for 2 new FTE positions to research climate smart agriculture.

⁵ Funding of \$262,000 from the general fund is added for a new FTE bee and apiary scientist position and related operating costs.

⁶ Funding of \$250,000 from the general fund is added for 1 new FTE position to assist with potato research.

⁷ Funding of \$1.1 million is added for operations as follows:

	General Fund
Precision agriculture	\$600,000
Graduate research assistants	180,000
Oakes irrigation research site operations	200,000
Other operations support	180,000
Total	\$1,160,000

⁸ Funding of \$178,069 from the general fund is reduced for bond payments to provide a total of \$178,477 for bond payments from the Main Research Center.

⁹ One-time funding, including funding from SIIF and the federal State Fiscal Recovery Fund, is added as follows:

	General Fund	Other Funds	Total Funds
Storage sheds (SIIF)		\$1,900,000	\$1,900,000
Deferred maintenance (SIIF)		500,000	500,000
Nesson Valley irrigation research site capital project	\$1,200,000		1,200,000
Branch research centers capital project inflation	2,008,230	925,000	2,933,230
Hettinger Research Center land purchase (federal State Fiscal Recovery Fund)		1,038,000	1,038,000
Waldron Hall replacement project (SIIF)		97,000,000	97,000,000
Total	\$3,208,230	\$101,363,000	\$104,571,230

House Bill No. 1020 - Agronomy Seed Farm - House Action

*AG
2-16-23*

	Base Budget	House Changes	House Version
Agronomy Seed Farm	\$1,579,655	\$49,139	\$1,628,794
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Total House Changes
Agronomy Seed Farm	\$4,604	\$44,535	\$49,139
Total all funds	\$4,604	\$44,535	\$49,139
Less estimated income	4,604	44,535	49,139
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	Other Funds
Salary increase	\$28,748
Health insurance increase	15,787
Total	\$44,535

House Bill No. 1020 - Other Changes - House Action

This amendment also:

- Adds a section to identify \$103,732,600 from SIIF, including \$3.9 million for the Northern Crops Institute feed production center facility upgrade and pellet mill, \$432,600 for the Upper Great Plains Transportation Institute transportation data intelligence center, and \$99.4 million for the main research center Waldron Hall replacement, deferred maintenance, and branch research center storage sheds.
- Adds a section to identify \$1,038,000 from the federal State Fiscal Recovery Fund for the purchase of land for the Hettinger Research Center.
- Adds sections to allow for funds appropriated for various capital projects at the branch research centers to be continued and expended during the 2023-25 biennium.
- Adds a section to exempt the main research center from Section 48-01.2-02.1, relating to procuring plans, drawings, and specifications from an architect or engineer, for the equipment storage sheds and deferred maintenance projects.
- Adds a section to declare the \$250,000 for the spud research fast track to be an emergency measure.

REPORT OF STANDING COMMITTEE

HB 1020: Appropriations Committee (Rep. Vigesaa, Chairman) recommends **AMENDMENTS AS FOLLOWS** and when so amended, recommends **DO PASS** (21 YEAS, 2 NAYS, 0 ABSENT AND NOT VOTING). HB 1020 was placed on the Sixth order on the calendar.

Page 1, line 4, replace "and" with "to provide for a transfer;"

Page 1, line 4, after "exemption" insert "; and to declare an emergency"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

" NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$6,094,267	\$62,624,491
Soil conservation committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
Full-time equivalent positions	241.77	13.93	255.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
Total general fund	\$1,987,142	\$169,396	\$2,156,538
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$223,899,261
Less estimated income	57,087,956	103,473,971	160,561,927

Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
Full-time equivalent positions	334.56	27.91	362.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
Central grasslands research center	3,553,320	115,371	3,668,691
Hettinger research center	5,174,885	233,889	5,408,774
Langdon research center	3,091,310	394,636	3,485,946
North Central research center	5,203,251	184,131	5,387,382
Williston research center	5,362,734	245,458	5,608,192
Carrington research center	<u>9,827,963</u>	<u>463,191</u>	<u>10,291,154</u>
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	<u>20,722,818</u>	<u>459,658</u>	<u>21,182,476</u>
Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
Full-time equivalent positions	108.21	2.60	110.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$49,139</u>	<u>\$1,628,794</u>
Total special funds	\$1,579,655	\$49,139	\$1,628,794
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
Grand total other funds	<u>128,659,318</u>	<u>112,671,709</u>	<u>241,331,027</u>
Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559"

Page 3, line 29, after "FUNDING" insert "- EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-NINTH LEGISLATIVE ASSEMBLY"

Page 3, line 30, after "biennium" insert "and the 2023-25 biennium one-time funding items included in section 1 of this Act"

Page 4, replace line 2 with:

"Deferred maintenance	\$500,000	\$500,000
Transportation data intelligence center	0	432,600
Multimodal carbon dioxide transportation study	0	398,450
Northern crops institute feed production center facility upgrade	0	3,250,000
Pellet mill	0	650,000
Storage sheds	0	1,900,000
Nesson Valley irrigation research site project	0	1,200,000
Branch research extension centers capital projects inflation	0	2,933,230
Hettinger research extension center land purchase	0	1,038,000
Waldron Hall replacement project	0	97,000,000"

Page 4, replace lines 10 through 12 with:

"Total all funds	\$12,827,000	\$109,302,280
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,606,680

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025."

Page 4, after line 30, insert:

"SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act includes the sum of \$99,400,000 from the strategic investment and improvements fund for the Waldron Hall replacement project, storage sheds, and deferred maintenance.

SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND - NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND AUTHORIZED. The appropriation in subdivision 4 of section 1 of this Act includes the sum of \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of real property for the Hettinger research center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The Hettinger research center shall make payments in lieu of property taxes in the manner and according to the conditions and procedures that would apply if the property were privately owned. The North Dakota state university main research center is authorized to purchase four parcels of land in Adams County, described as:

1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
2. A tract of land in the northeast quarter of the southeast quarter of section 13, township 129 north, range 96, Adams County;
3. The southeast quarter of the southeast quarter of section 13, the north half of the northeast quarter of section 24, township 129 north, range 96, Adams County; and
4. The north half of the north half of section 19, township 129 north, range 95, Adams County."

Page 5, after line 16, insert:

"SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS. The amounts appropriated from other funds for Carrington research center capital projects, central grasslands research center capital projects, and Langdon research center capital projects in subdivision 4 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL STATE FISCAL RECOVERY FUND. The amounts appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center, central grasslands research center, Dickinson research center, and Hettinger research center in section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT CONSTRUCTION. The main research center, for its use of the \$2,400,000 appropriated from the strategic investment and improvements fund for deferred maintenance and branch research center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main research center may spend this funding without procuring plans, drawings, and specifications from an architect or engineer.

SECTION 14. EMERGENCY. The \$250,000 appropriated from the general fund for a spud research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency measure."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of House Action

	Base Budget	House Changes	House Version
Transportation Institute			
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88
Branch Research Centers			
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81
NDSU Extension Service			
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70
Northern Crops Institute			
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15
Main Research Center			
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47
Agronomy Seed Farm			
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Bill total			
Total all funds	\$237,727,605	\$129,103,954	\$366,831,559
Less estimated income	128,659,318	112,671,709	241,331,027
General fund	<u>\$109,068,287</u>	<u>\$16,432,245</u>	<u>\$125,500,532</u>
FTE	744.97	49.04	794.01

House Bill No. 1020 - Transportation Institute - House Action

	Base Budget	House Changes	House Version
Upper Great Plains Trans. Institute	<u>\$23,527,957</u>	<u>\$2,000,375</u>	<u>\$25,528,332</u>
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	<u>\$4,485,607</u>	<u>\$942,354</u>	<u>\$5,427,961</u>
FTE	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for Freight Transportation and Logistics Surveys ³	Adds One-Time Funding for a Transportation Data Center ⁴	Adds One-Time Funding for Carbon Dioxide Study ⁵	Total House Changes
Upper Great Plains Trans. Institute	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Total all funds	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Less estimated income	77,856	547,565	0	432,600	0	1,058,021
General fund	<u>\$0</u>	<u>\$243,904</u>	<u>\$300,000</u>	<u>\$0</u>	<u>\$398,450</u>	<u>\$942,354</u>
FTE	0.00	0.00	0.00	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$174,237	\$404,585	\$578,822
Health insurance increase	69,667	142,980	212,647
Total	<u>\$243,904</u>	<u>\$547,565</u>	<u>\$791,469</u>

³ Funding of \$300,000 from the general fund is added for freight transportation and logistics surveys.

⁴ One-time funding of \$432,600 from the strategic investment and improvements fund (SIIF) is added for a transportation data intelligence center.

⁵ One-time funding of \$398,450 from the general fund is added to study multimodal carbon dioxide transportation.

House Bill No. 1020 - Branch Research Centers - House Action

	Base Budget	House Changes	House Version
Dickinson Research Center	\$7,078,838	\$214,700	\$7,293,538
Central Grasslands Research Center	3,553,320	115,371	3,668,691
Hettinger Research Center	5,174,885	233,889	5,408,774
Langdon Research Center	3,091,310	394,636	3,485,946
North Central Research Center	5,203,251	184,131	5,387,382
Williston Research Center	5,362,734	245,458	5,608,192
Carrington Research Center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

Department 628 - Branch Research Centers - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Reduces Funding for Bond Payments ³	Adds Funding for a Technician FTE Position ⁴	Total House Changes
Dickinson Research Center	\$19,612	\$195,088			\$214,700
Central Grasslands Research Center	9,255	130,142	(\$24,026)		115,371
Hettinger Research Center	20,099	213,790			233,889
Langdon Research Center	13,531	131,105		\$250,000	394,636
North Central Research Center	17,989	205,289	(39,147)		184,131
Williston Research Center	22,154	223,304			245,458
Carrington Research Center	37,820	425,371			463,191
Total all funds	\$140,460	\$1,524,089	(\$63,173)	\$250,000	\$1,851,376
Less estimated income	18,337	441,321	0	0	459,658
General fund	\$122,123	\$1,082,768	(\$63,173)	\$250,000	\$1,391,718
FTE	1.60	0.00	0.00	1.00	2.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Dickinson Research Center			
Salary increase	\$121,415	\$0	\$121,415
Health insurance increase	73,673	0	73,673
Total	\$195,088	\$0	\$195,088
Central Grasslands Research Center			
Salary increase	\$68,822	\$19,232	\$88,054
Health insurance increase	39,459	2,629	42,088
Total	\$108,281	\$21,861	\$130,142
Hettinger Research Center			
Salary increase	\$101,119	\$31,571	\$132,690
Health insurance increase	48,112	32,988	81,100
Total	\$149,231	\$64,559	\$213,790
Langdon Research Center			
Salary increase	\$62,693	\$21,055	\$83,748
Health insurance increase	33,370	13,987	47,357
Total	\$96,063	\$35,042	\$131,105
North Central Research Center			
Salary increase	\$75,026	\$56,599	\$131,625
Health insurance increase	40,476	33,188	73,664
Total	\$115,502	\$89,787	\$205,289
Williston Research Center			
Salary increase	\$136,697	\$18,197	\$154,894
Health insurance increase	57,886	10,524	68,410
Total	\$194,583	\$28,721	\$223,304
Carrington Research Center			
Salary increase	\$138,405	\$129,112	\$267,517
Health insurance increase	85,615	72,239	157,854
Total	\$224,020	\$201,351	\$425,371
Total Branch Research Centers			
Salary increase	\$704,177	\$275,766	\$979,943
Health insurance increase	378,591	165,555	544,146
Total	\$1,082,768	\$441,321	\$1,524,089

³ Funding of \$63,173 is reduced from the general fund, including \$24,026 from the Central Grasslands Research Center and \$39,147 from the North Central Research Center, for bond payments, to provide a total of \$63,728 for bond payments for the 2023-25 biennium.

⁴ Funding of \$250,000 from the general fund is added for a new FTE technician position to research clubroot fungus at the Langdon Research Center.

House Bill No. 1020 - NDSU Extension Service - House Action

	Base Budget	House Changes	House Version
Extension Service	\$56,530,224	\$6,094,267	\$62,624,491
Soil Conservation Committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70

Department 630 - NDSU Extension Service - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Cropping System Initiative ³	Adds Funding for the Livestock Development Initiative ⁴	Adds Funding for Farm and Ranch Safety ⁵	Adds Funding for 4-H ⁶
Extension Service	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Soil Conservation Committee						
Total all funds	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Less estimated income	108,985	1,955,607	0	0	0	0
General fund	\$227,797	\$1,881,878	\$700,000	\$500,000	\$250,000	\$320,000
FTE	8.93	0.00	2.00	2.00	0.00	1.00

	Adds Funding for Extension and Soil Conservation Committee Operations ²	Total House Changes
Extension Service	\$150,000	\$6,094,267
Soil Conservation Committee	150,000	150,000
Total all funds	\$300,000	\$6,244,267
Less estimated income	0	2,064,592
General fund	\$300,000	\$4,179,675
FTE	0.00	13.93

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$1,158,661	\$1,213,811	\$2,372,472
Health insurance increase	723,217	741,796	1,465,013
Total	\$1,881,878	\$1,955,607	\$3,837,485

³ Funding of \$700,000 from the general fund is added for 2 new FTE positions, including a soybean pathologist and a weed specialist, for the cropping system initiative.

⁴ Funding of \$500,000 from the general fund is added for 2 new FTE positions, including a veterinary epidemiologist and a swine specialist, for the livestock development initiative.

⁵ Funding of \$250,000 from the general fund is added for the farm and ranch safety and health initiative.

⁶ Funding of \$320,000 from the general fund is added for 1 new FTE position for the program support for the 4-H initiative.

⁷ Funding of \$300,000 from the general fund is added for operations support, including \$150,000 for the Extension Service and \$150,000 for the state soil conservation committee.

House Bill No. 1020 - Northern Crops Institute - House Action

	Base Budget	House Changes	House Version
Northern Crops Institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15

Department 638 - Northern Crops Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Increases Funding to Reflect Available Special Funds ³	Adds One-Time Funding ⁴	Total House Changes
Northern Crops Institute	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Total all funds	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Less estimated income	16,610	149,718	1,500,000	3,900,000	5,566,328
General fund	\$16,505	\$152,891	\$0	\$0	\$169,396
FTE	4.60	0.00	0.00	0.00	4.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by

the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$98,273	\$102,187	\$200,460
Health insurance increase	54,618	47,531	102,149
Total	\$152,891	\$149,718	\$302,609

³ Funding of \$1.5 million from other funds is added to reflect special funds available to the agency.

⁴ One-time funding is added from SIIF for the Northern Crops Institute Feed Production Center facility upgrade (\$3,250,000) and a new pellet mill (\$650,000).

House Bill No. 1020 - Main Research Center - House Action

	Base Budget	House Changes	House Version
Main Research Center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47

Department 640 - Main Research Center - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Big Data Initiative ³	Adds Funding for Climate Smart Agriculture ⁴	Adds Funding for Bee and Apiary Research ⁵	Adds funding for the Spud Research Fast Track ⁶
Main Research Center	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Total all funds	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Less estimated income	117,136	1,993,835	0	0	0	0
General fund	\$392,772	\$3,726,969	\$469,000	\$458,200	\$262,000	\$250,000
FTE	22.91	0.00	1.00	2.00	1.00	1.00

	Adds Funding for Operations ⁷	Reduces Funding for Bond Payments ⁸	Adds One-Time Funding ⁹	Total House Changes
Main Research Center	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Total all funds	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Less estimated income	0	0	101,363,000	103,473,971
General fund	\$1,160,000	(\$178,069)	\$3,208,230	\$9,749,102
FTE	0.00	0.00	0.00	27.91

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$2,403,437	\$1,264,212	\$3,667,649
Health insurance increase	1,323,532	729,623	2,053,155
Total	\$3,726,969	\$1,993,835	\$5,720,804

³ Funding of \$469,000 from the general fund is added for a new FTE position and operating expenses for the big data initiative.

⁴ Funding of \$458,200 from the general fund is added for 2 new FTE positions to research climate smart agriculture.

⁵ Funding of \$262,000 from the general fund is added for a new FTE bee and apiary scientist position and related operating costs.

⁶ Funding of \$250,000 from the general fund is added for 1 new FTE position to assist with potato research.

⁷ Funding of \$1.1 million is added for operations as follows:

	<u>General Fund</u>
Precision agriculture	\$600,000
Graduate research assistants	180,000
Oakes irrigation research site operations	200,000
Other operations support	<u>180,000</u>
Total	\$1,160,000

⁸ Funding of \$178,069 from the general fund is reduced for bond payments to provide a total of \$178,477 for bond payments from the Main Research Center.

⁹ One-time funding, including funding from SIIF and the federal State Fiscal Recovery Fund, is added as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total Funds</u>
Storage sheds (SIIF)		\$1,900,000	\$1,900,000
Deferred maintenance (SIIF)		500,000	500,000
Nesson Valley irrigation research site capital project	\$1,200,000		1,200,000
Branch research centers capital project inflation	2,008,230	925,000	2,933,230
Hettinger Research Center land purchase (federal State Fiscal Recovery Fund)		1,038,000	1,038,000
Waldron Hall replacement project (SIIF)		<u>97,000,000</u>	<u>97,000,000</u>
Total	<u>\$3,208,230</u>	<u>\$101,363,000</u>	<u>\$104,571,230</u>

House Bill No. 1020 - Agronomy Seed Farm - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Agronomy Seed Farm	<u>\$1,579,655</u>	\$49,139	<u>\$1,628,794</u>
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	<u>1,579,655</u>	<u>49,139</u>	<u>1,628,794</u>
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Total House Changes</u>
Agronomy Seed Farm	<u>\$4,604</u>	<u>\$44,535</u>	<u>\$49,139</u>
Total all funds	\$4,604	\$44,535	\$49,139
Less estimated income	<u>4,604</u>	<u>44,535</u>	<u>49,139</u>
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>Other Funds</u>
Salary increase	\$28,748
Health insurance increase	<u>15,787</u>
Total	\$44,535

House Bill No. 1020 - Other Changes - House Action

This amendment also:

- Adds a section to identify \$103,732,600 from SIIF, including \$3.9 million for the Northern Crops Institute feed production center facility upgrade and pellet mill, \$432,600 for the Upper Great Plains Transportation Institute transportation data intelligence center, and \$99.4 million for the main research center Waldron Hall replacement, deferred maintenance, and branch research center storage sheds.
- Adds a section to identify \$1,038,000 from the federal State Fiscal Recovery Fund for the purchase of land for the Hettinger Research Center.
- Adds sections to allow for funds appropriated for various capital projects at the branch research centers to be continued and expended during the 2023-25 biennium.
- Adds a section to exempt the main research center from Section 48-01.2-02.1, relating to procuring plans, drawings, and specifications from an architect or engineer, for the equipment storage sheds and deferred maintenance projects.
- Adds a section to declare the \$250,000 for the spud research fast track to be an emergency measure.

2023 SENATE APPROPRIATIONS

HB 1020

Department 630 - NDSU Extension Service
House Bill No. 1020

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$33,617,498	\$30,368,513	\$63,986,011
2023-25 Base Level	29,437,823	28,303,921	57,741,744
Increase (Decrease)	\$4,179,675	\$2,064,592	\$6,244,267

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota State University (NDSU) Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Transfer authority - Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

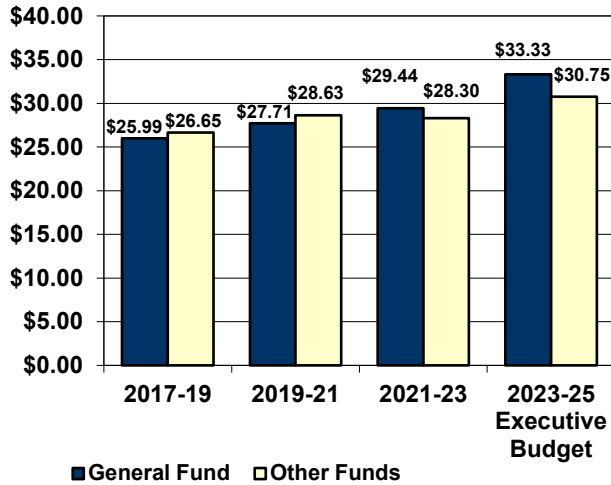
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

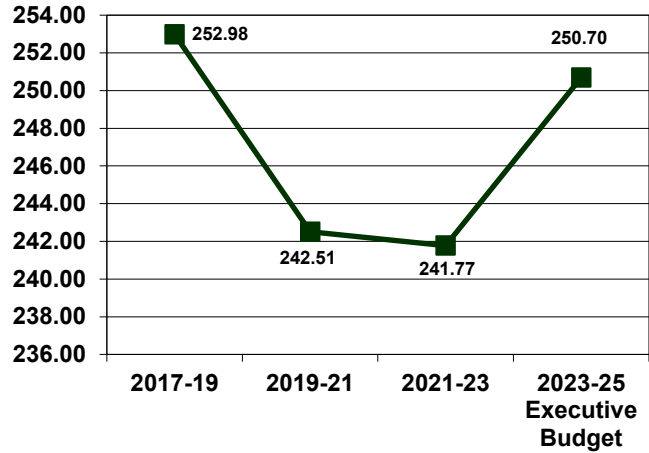
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$27,824,562	\$25,633,320	\$27,709,666	\$29,437,823	\$33,334,561
Increase (decrease) from previous biennium	N/A	(\$2,191,242)	\$2,076,346	\$1,728,157	\$3,896,738
Percentage increase (decrease) from previous biennium	N/A	(7.9%)	8.1%	6.2%	13.2%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(7.9%)	(0.4%)	5.8%	19.8%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Reduced funding for salaries, including removal of 10.93 FTE positions (\$1,619,206)
2. Adjusted funding for operating expenses \$175,557
3. Reduced funding for equipment (\$300,000)
4. Additional unspecified general fund reduction (\$1,096,343)

2019-21 Biennium

1. Reduced funding for salaries and wages (\$125,000)
2. Added funding to provide additional state funds for the costs of county extension agents \$870,000
3. Added funding for miscellaneous expenses \$100,000

2021-23 Biennium

1. Added 1 FTE position and related funding for a big data initiative \$280,000
2. Added 2 FTE positions and related funding for a livestock initiative \$500,000
3. Added funding for the agricultural safety initiative \$240,000
4. Increased funding for soil conservation districts to provide a total of \$1,211,520 \$120,000

2023-25 Biennium (Executive Budget Recommendation)

- Adds funding for a cropping system initiative \$1,400,000

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$12,500	\$360,000	\$0	\$0	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium

Added one-time funding for website and digital upgrades \$345,000

2019-21 Biennium

None \$0

2021-23 Biennium

None \$0

2023-25 Biennium (Executive Budget Recommendation)

None \$0

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744
2023-25 Ongoing Funding Changes								
Base payroll changes		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	8.93			0	8.93			0
Salary increase		1,551,009	1,622,297	3,173,306		1,158,661	1,213,811	2,372,472
Health insurance increase		717,932	714,138	1,432,070		723,217	741,796	1,465,013
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative		1,400,000		1,400,000	2.00	700,000		700,000
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist				0	2.00	500,000		500,000
Adds funding for farm and ranch safety and health initiative				0		250,000		250,000
Program support for 4-H initiative				0	1.00	320,000		320,000
Adds funding for extension and State Soil Conservation Committee operating support				0		300,000		300,000
Total ongoing funding changes	8.93	\$3,896,738	\$2,445,420	\$6,342,158	13.93	\$4,179,675	\$2,064,592	\$6,244,267
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	8.93	\$3,896,738	\$2,445,420	\$6,342,158	13.93	\$4,179,675	\$2,064,592	\$6,244,267
2023-25 Total Funding	250.70	\$33,334,561	\$30,749,341	\$64,083,902	255.70	\$33,617,498	\$30,368,513	\$63,986,011
<i>Federal funds included in other funds</i>			\$9,458,045				\$9,326,767	
<i>Total ongoing changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	5.8%	14.2%	7.3%	10.8%
<i>Total changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	5.8%	14.2%	7.3%	10.8%

Other Sections in NDSU Extension Service - Budget No. 630

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.

Other Sections in NDSU Extension Service - Budget No. 630

Executive Budget Recommendation

FTE position adjustments

Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.

Unexpended general fund - Excess income

Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

House Version

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations

Rough Rider Room, State Capitol

HB 1020

3/2/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency.

3:01 PM Chairman Bekkedahl opened the meeting.

Senators Bekkedahl, Krebsbach, Burckhard, Davison, Dever, Dwyer, Erbele, Mathern, Meyer, Roers, Rust, Schaible, Sorvaag, Vedaa, and Wanzek are present. Senator Kreun is absent.

Discussion Topics:

- Stakeholder input and prioritization
- 30.8 billion economic impact on ND economy
- Commodity groups and geographic areas
- Cropping systems initiative
- Livestock development
- Farm and ranch safety and health
- 4H youth entrepreneurial initiative
- Plant production and protection initiative
- Operating support
- Big data initiative
- Climate-smart agriculture
- Bee and apiary research
- Precision agriculture
- Field lab facility
- Research station infrastructure
- House version of budget requests
- Engineering complex
- Partnerships with private donors
- Waldron Hall and Peltier Complex research facilities
- World-class facilities / quality researchers
- Effects of online and in-person presentations
- Ancient grains of Great Plains
- Technical services
- Webinars attended by 150 different countries
- Livestock and feed market development trials
- Equipment replacement needs
- Ethanol's international market
- Freight and agricultural freight transportation

- Advanced transportation analysis
- Tribal transportation
- Commercial vehicle safety
- DOT support center
- Educate transportation workforce
- Road and bridge asset management system
- Transportation safety
- Remote sensing of transportation structures
- CO2 transportation study
- Grants and contracts
- Salary increases
- New freight transportation and logistics program
- Data analysis
- Artificial intelligence uses
- One-time requests
- CO2 rail transportation

3:02 PM David Cook, President of NDSU, introduced presenters.

3:04 PM Sarah Lovas, Chair of State Board of Agricultural Research and Education testified.
Testimony #21726

3:16 PM Dr. Greg Lardy, Director of NDSU Extension and Director of ND Agricultural Experiment Station, testified. Testimony #21999

3:56 PM Mark Jirik, Director, Northern Crops Institute, testified. Testimony #21727, #21728, #21729

4:14 PM Denver Tolliver, Director, Upper Great Plains Transportation Institute, testified.
Testimony #21835, #21991

Additional Written Testimony:

Amanda Remyse, ND Motor Carriers Association Testimony #21625

Andrea Pfennig, Greater ND Chamber. Testimony #21642

Monte Peterson, ND Soybean Growers Association, Testimony #21664

Neal Fisher submitted on behalf of Jim Pellman, Vice-Chair ND Wheat Commission,
Testimony #21667

Pete Hanebutt, ND Farm Bureau Public Policy Director Testimony #21676

Donald Buckmier, Advisory Board member, Carrington Research Center Testimony 21695

Dana Bohn, ND Farm Credit Council Executive Director Testimony #21699

Julie Ellingson, Executive Vice President, ND Stockmen's Association Testimony #21700

Darrell Oswald, Chairman ND Ag Coalition Testimony #21701

Steve Perdue, Policy Commission Chair US Durum Growers Association
Testimony#21703

Steve Hansen, Chairman ND Irrigation Association Testimony #21707

Gloria Vande Brake, Executive Director ND Nursery, Greenhouse & Landscape
Association Testimony #21711

Scott D. Zainhofsky, Planning/Asset Management Division Engineer for NDDOT
Testimony #21720

Scott Meske, ND Transportation Coalition Testimony #21725

Shannon Duerr, Executive Director Cavalier County Job development Authority, and
member of the Advisory Board for the Langdon Research Extension Center Testimony
#21746

Erik Laber, Jamestown City Forester Testimony #21749

Rhonda Kelsch, ND Association of Soil Conservation Districts. Testimony #21808

Ken Bertsch, State Seed Commissioner and Administrator of the State Seed Department
Testimony #21992

Randy Melhoff, Langdon Research Extension Center #21354

Greg G. Goodman #21359

Barry J. Coleman, Northern Canola Growers Association #21407

Anna Nelson, Williston Area Chamber of Commerce #21537
Simon Geoff Western Dakota Wheat Commission #21675

Jill Patrie, Baker Garden & Gift, #21758

4:35 PM Chairman Bekkedahl closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

HB 1020
3/9/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency

8:30 AM Chairman Wanzek called the meeting to order.

Senators Wanzek, Erbele, Roers, Dwyer, and Vedaa are present.

Discussion Topics:

- Hettinger Research Center land purchase
- Research for ND growing conditions
- Cropping systems initiative
- Invasive weeds
- Carbon sequestration
- On-farm research and SBARE initiatives
- Plant production and protection
- Operating support
- Big data initiative
- Climate-smart agriculture
- Bee and Apiary research
- Precision agriculture
- Capital improvement and one-time requests
- Grand Farm collaboration
- SBARE and NDSU Extension summary
- Irrigation research and aquifer recharge
- Forage management and conservation
- Local research benefits
- Genetic markers for feed efficiency
- Pathology greenhouse
- Capital facility needs
- Foundational seed production
- Dr. Lee Manske's research
- Sugar beet replacement
- MonDak Irrigation Frontier
- Fundraising authority
- Regenerative Ag
- New marketing opportunities
- Carbon sequestration specialist
- Employee recruitment and retention

- Ag field lab
- Extension agronomist
- Waldron Hall video
- Extension agent compensation
- Operating support for Oakes Research Center
- Livestock development initiative
- 4H initiative
- H2A Program
- Political science and agriculture
- Pollinator habitat
- Crop and range judging contest
- Sustainability
- Soil Conservation Districts
- Tree planting
- NDSU feed mill
- Research on worldwide corn quality
- Transportation Data Intelligence Center
- Real-time artificial intelligence digital information and automation
- Freight transportation data collection
- Study: CO2 movement/transportation
- Township roads
- Waldron Hall funding

8:33 AM Sarah Lovas, Director State Board of Agricultural Research and Education (SBARE), testified. Testimony #23246

8:41 AM Dr. Greg Lardy, Director of NDSU Extension and the ND Agricultural Experiment Station, testified. Testimony #21999

9:16 AM Carrington Research Extension Center (REC) Director Mike Ostlie testified. Testimony #23167

9:23 AM Kevin Sedivec, Interim Director Central Grasslands REC, testified. Testimony #23171

9:26 AM Chris Augustin, Director of Dickinson REC, testified. Testimony #22801

9:28 AM Jacob Odermann, Dickinson REC Advisory Board, testified. Testimony #23284

10:02 AM Tom Wheeler, Joint Advisory Committee Williston Research Center, testified. (No written testimony)

10:11 AM Matt Perdue, ND Farmers Union, testified. Testimony #23035

10:14 AM Darrell Oswald, Chair ND Ag Coalition, testified. Testimony #21701

10:17 AM Ed Kessel, President ND Grain Growers Association, testified. Testimony #22552, #22553

10:28 AM Steve Lee, President ND Association of Counties and McLean County Commissioner, testified. (No written testimony)

10:32 AM Kelly Klosterman, State Soil Conservation Committee, testified. Testimony #23307

10:34 AM Julie Ellingson, Executive Vice President ND Stockmen's Association, testified. Testimony #21700

10:44 AM Haley Cowan, Williams County 4H, testified. Testimony #22791

10:47 AM Sam Devik, Cass County 4H Ambassador, testified online. Testimony #23012

10:51 AM Joe Sheldon, ND Corn Growers Association, testified. Testimony #23274

10:55 AM Recess

11:10 AM Reconvene

11:01 AM Rhonda Kelsch, ND Soil Conservation Districts, testified. Testimony #21808

11:15 AM Mark Jirick, Northern Crops Institute, testified. Testimony #21727, #21728, #21729

11:21 AM Denver Tolliver, Director Upper Great Plains Transportation Institute, testified. Testimony #21835

11:52 AM Larry Syverson, ND Townships Association, testified. Testimony #23282

11:54 AM Scott Zainhofsky, Planning/Asset Management Division Engineer ND Department of Transportation. Testimony #23111

Additional written testimony:

Christopher Schauer #22283 #22284

Shane Forster #22550

Luke C. Anderson #22824

Brian Otteson #22848

Steve Hansen #22930

Victor Meyers #22945

Samuel J. Devick #23147

Kevin K. Sedivec #23170

Jayce K. Doan #23177

Monte Peterson #23187

Katherine Grindberg #23257

Lynete Flage #23308

11:58 AM Chairman Wanzek closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

HB 1020
3/13/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency

9:02 AM Chairman Wanzek called the meeting to order.

Senators Wanzek, Erbele, Roers, Dwyer, and Vedaa are present.

Discussion Topics:

- Base budget vs House budget
- Full Time Employees (FTEs)
- Grant funds
- Climate-smart agriculture definition
- Spending flexibility
- State Board of Agricultural Research and Education (SBARE) rankings
- Bee and apiary research
- Operating support Oakes irrigation project
- Potato variety research
- One-time funds – equipment storage – inflation factor
- 1944 Federal irrigation plan
- Bonding potential
- Waldron Hall Return on Investment (ROI)
- Budget # 630 Extension Service major initiatives
- FTE positions and costs
- Livestock development initiative
- Carbon credit as marketing tool/revenue stream
- Soil conservation districts
- Renewable energy vs food security
- Urban growth vs food production
- Research and investment in productivity gains
- Funding adjustment between initiatives
- Funding transfer flexibility
- Branch research centers
- Scientist position
- Precision agriculture
- Plant production and protection
- Summary of potential changes to bill
- Agronomy seed farm budget
- Upper Great Plains Transportation Budget

- Carbon capture transportation in economic development
- Freight transportation logistics study

9:03 AM Alex Cronquist, LC Senior Fiscal Analyst, testified. Testimony #24335 #24336, #24337, #24338, #24339, #24340

9:12 AM Dr. Greg Lardy, Vice President Agricultural Affairs; Director ND Agricultural Experiment Station; Director NDSU Extension, testified. Testimony #21576

9:20 AM Stephanie Johnson, OMB Budget Analyst, testified. Testimony #24335

10:20 AM Recess

10:40 AM Reconvene

12:06 AM Denver Tolliver, Upper Great Plains Transportation Institute, testified. Testimony #21835

12:12 PM Chairman Wanzek closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

SB 1020
3/23/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency

10:47 AM Chairman Wanzek called the meeting to order.
Senators Wanzek, Erbele, Roers, Dwyer, and Vedaa are present.

We experienced technical difficulties at the beginning of the meeting.

Discussion Topics:

- State Board of Agricultural Research and Education (SBARE) priorities
- Big data initiative
- Climate smart agriculture
- Bee research (Minnesota research project)
- Precision agriculture
- Research assistants
- Storage sheds
- Deferred maintenance
- Nesson Valley Irrigation Research site
- Hettinger Research Center land purchase
- Waldron Hall project
- Soybean pathologist
- 4H operating support
- Dickinson Research Center Agronomist
- Upper Great Plains Transportation
- CO2 multimodal transportation study

10:47 AM Senator Erbele led the committee discussion on HB 1020

10:49 AM Alex Cronquist, LC Senior Fiscal Analyst distributed fiscal pages.
Testimony #26470

10:49 AM Dr. Greg Lardy, NDSU Vice President Agricultural Affairs, Director ND Agricultural Experiment Station, and Director NDSU Extension, testified. (No written testimony)

10:53 AM Renae Blom, OMB Fiscal Analyst, testified. (No written testimony)

11:33 AM Chairman Wanzek closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

HB 1020
3/27/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency

11:16 AM Chairman Wanzek opened the meeting.
Senators Wanzek, Dwyer, J. Roers, Vedaa, and Erbele are present.

(Technical difficulties; no video, no audio available)

Discussion Topics:

- Waldron Hall funding
- Schedule meeting with bonding expert
- Balanced budget

Committee discussed.

11:20 AM Chairman Wanzek closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

HB 1020
3/29/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency

9:03 AM Chairman Wanzek called the meeting to order.
Senators Wanzek, Erbele, J. Roers, Dwyer, and Vedaa were present.

Discussion Topics:

- ND building authority legislation
- Bonding process history
- Bonding authority
- Repayment
- ND Bond Ratings
- Bond sizing
- Interest rates
- Taxable bonds
- Legacy bond issues
- Repayment options
- Bond rating factors
- Waldron Hall Project
- NDSU authority
- Inflation
- Building timeline

9:04 AM DeAnn M. Ament, Executive Director ND Finance, ND Building Authority, testified.
Testimony #26991

9:04 Dr Greg Lardy, Vice President Agricultural Affairs; Director ND Agricultural Experiment Station; Director NDSU Extension, testified. (No written testimony)

9:16 Chairman Wanzek welcomed Napoleon HS students and Mr. Berger.

9:32 Adam Mathiak, LC Senior Fiscal Analyst, testified. Testimony #26470

9:55 Chairman Wanzek welcomed Edgeley High School students.

10:05 Recess

10:37 Reconvene

10:49 Chairman Wanzek closed the meeting.

Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Red River Room, State Capitol

HB 1020
3/31/2023

A bill for an act to provide an appropriation for defraying the expenses of the North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plains Transportation Institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency.

11:30 AM Chairman Wanzek opened the meeting.
Senators Wanzek, Dwyer, J. Roers, Vedaa, and Erbele were present.

Discussion Topics:

- State Board of Agricultural Research and Education (SBARE) priorities
- Agronomist
- FTE funding pool
- Extension Service changes
- Budget
- Nessen Valley irrigation project
- Waldon Hall

11:31 AM Alex Cronquist, Legislative Council (LC) Senior Fiscal Analyst, reviewed amendments. Testimony #27171

11:49 AM Senator Erbele moved to adopt Amendment LC 23.0249.02002.
Senator Roers seconded the motion.

Senators	Vote
Senator Terry M. Wanzek	Y
Senator Michael Dwyer	Y
Senator Robert Erbele	Y
Senator Jim P. Roers	Y
Senator Shawn Vedaa	Y

Motion passed 5-0-0

11:50 AM Senator Erbele moved a Do Pass as Amended recommendation for HB 1020.
Senator Roers seconded the motion.

Senators	Vote
Senator Terry M. Wanzek	Y
Senator Michael Dwyer	Y
Senator Robert Erbele	Y
Senator Jim P. Roers	Y
Senator Shawn Vedaa	Y

Motion passed 5-0-0

Senator Erbele will carry this bill.

11:51 AM Chairman Wanzek closed the meeting.
Carol Thompson, Committee Clerk

2023 SENATE STANDING COMMITTEE MINUTES

Appropriations Committee Roughrider Room, State Capitol

HB 1020
4/4/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; to provide for a transfer; to provide an exemption; and to declare an emergency.

8:57 AM Chairman Bekkedahl opened the hearing on HB 1020.

Members present: Senators Bekkedahl, Krebsbach, Burckhard, Davison, Dwyer, Erbele, Kreun, Meyer, Roers, Schaible, Sorvaag, Vedaa, Wanzek, Rust, and Mathern.

Members absent: Senator Dever

Discussion Topics:

- North Dakota state extension service
- Northern crops institute
- Upper great plains transportation institute
- Branch research centers
- Agronomy seed farm
- Committee action

8:59 AM Senator Erbele introduced amendment LC 23.0249.02002, testimony # 27171.

9:12 AM Senator Erbele moved to adopt AMENDMENT 23.0249.02002.

Senator Davison seconded the motion

Senators	Vote
Senator Brad Bekkedahl	Y
Senator Karen K. Krebsbach	Y
Senator Randy A. Burckhard	Y
Senator Kyle Davison	Y
Senator Dick Dever	AB
Senator Michael Dwyer	Y
Senator Robert Erbele	Y
Senator Curt Kreun	Y
Senator Tim Mathern	N
Senator Scott Meyer	Y
Senator Jim P. Roers	Y
Senator David S. Rust	Y
Senator Donald Schaible	Y
Senator Ronald Sorvaag	Y
Senator Shawn Vedaa	Y
Senator Terry M. Wanzek	Y

Motion passed 14-1-1.

9:14 AM Senator Erbele moved DO PASS AS AMENDED.
Senator Vedaa seconded the motion.

Senators	Vote
Senator Brad Bekkedahl	Y
Senator Karen K. Krebsbach	Y
Senator Randy A. Burckhard	Y
Senator Kyle Davison	Y
Senator Dick Dever	AB
Senator Michael Dwyer	Y
Senator Robert Erbele	Y
Senator Curt Kreun	Y
Senator Tim Mathern	Y
Senator Scott Meyer	Y
Senator Jim P. Roers	Y
Senator David S. Rust	Y
Senator Donald Schaible	Y
Senator Ronald Sorvaag	Y
Senator Shawn Vedaa	Y
Senator Terry M. Wanzek	Y

Motion passed 15-0-1.

Senator Erbele will carry the bill.

9:15 AM Chairman Bekkedahl closed the hearing.

Kathleen Hall, Committee Clerk

AG
4-4-23
(1-11)

PROPOSED AMENDMENTS TO ENGROSSED HOUSE BILL NO. 1020

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,207,613	\$58,737,837
Soil conservation committee	<u>1,211,520</u>	<u>300,000</u>	<u>1,511,520</u>
Total all funds	\$57,741,744	\$2,507,613	\$60,249,357
Less estimated income	<u>28,303,921</u>	<u>682,222</u>	<u>28,986,143</u>
Total general fund	\$29,437,823	\$1,825,391	\$31,263,214
Full-time equivalent positions	241.77	12.93	254.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	<u>\$3,909,760</u>	<u>\$5,640,941</u>	<u>\$9,550,701</u>
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	<u>1,922,618</u>	<u>5,517,827</u>	<u>7,440,445</u>
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	<u>\$23,527,957</u>	<u>\$1,570,236</u>	<u>\$25,098,193</u>
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	<u>19,042,350</u>	<u>959,427</u>	<u>20,001,777</u>
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	<u>\$111,676,188</u>	<u>\$108,088,315</u>	<u>\$219,764,503</u>
Total all funds	\$111,676,188	\$108,088,315	\$219,764,503

Less estimated income	<u>57,087,956</u>	<u>102,538,358</u>	<u>159,626,314</u>
Total general fund	\$54,588,232	\$5,549,957	\$60,138,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

AG
4-4-23
(2-11)

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	<u>9,827,963</u>	<u>239,286</u>	<u>10,067,249</u>
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>228,047</u>	<u>20,950,865</u>
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$50,109</u>	<u>\$1,629,764</u>
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,705,128	\$117,773,415
Grand total other funds	<u>128,659,318</u>	<u>109,975,990</u>	<u>238,635,308</u>
Grand total all funds	\$237,727,605	\$118,681,118	\$356,408,723"

Page 4, replace line 4 with:

"Deferred maintenance	\$500,000	\$1,000,000"
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Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project	0	1,700,000"
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Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,903,830
Total other funds	<u>12,327,000</u>	<u>106,195,600</u>
Total general fund	\$500,000	\$3,708,230"

Page 5, line 24, replace "\$99,400,000" with "\$89,900,000"

Page 7, line 12, replace "\$2,400,000" with "\$2,900,000"

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron Hall replacement project"

AG
4-4-23
(3-11)

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Transportation Institute				
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416
FTE	43.88	43.88	0.00	43.88
Branch Research Centers				
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340
FTE	108.21	110.81	1.00	111.81
NDSU Extension Service				
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143
General fund	\$29,437,823	\$33,617,498	(\$2,354,284)	\$31,263,214
FTE	241.77	255.70	(1.00)	254.70
Northern Crops Institute				
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256
FTE	13.55	18.15	0.00	18.15
Main Research Center				
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	57,087,956	160,561,927	(935,613)	159,626,314
General fund	\$54,588,232	\$64,337,334	(\$4,199,145)	\$60,138,189
FTE	334.56	362.47	(4.00)	358.47
Agronomy Seed Farm				
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	1,579,655	1,628,794	970	1,629,764
General fund	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00
Bill total				
Total all funds	\$237,727,605	\$366,831,559	(\$10,422,836)	\$356,408,723
Less estimated income	128,659,318	241,331,027	(2,695,719)	238,635,308
General fund	\$109,068,287	\$125,500,532	(\$7,727,117)	\$117,773,415
FTE	744.97	794.01	(4.00)	790.01

House Bill No. 1020 - Transportation Institute - Senate Action

AG
4-4-23
(4-M)

	Base Budget	House Version	Senate Changes	Senate Version
Upper Great Plains Trans. Institute	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416
FTE	43.88	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Senate Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed by the Senate.

House Bill No. 1020 - Branch Research Centers - Senate Action

AG
4-4-23
(5-11)

	Base Budget	House Version	Senate Changes	Senate Version
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340
FTE	108.21	110.81	1.00	111.81

Department 628 - Branch Research Centers - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Senate Changes
Dickinson Research Center	\$38,976		\$292,000	(\$391,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$292,000	(\$1,561,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$292,000	(\$1,241,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

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	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance increase	<u>(1,657)</u>	<u>0</u>	<u>(1,657)</u>
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance increase	<u>(887)</u>	<u>(59)</u>	<u>(946)</u>
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance increase	<u>(1,082)</u>	<u>(742)</u>	<u>(1,824)</u>
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance increase	<u>(750)</u>	<u>(315)</u>	<u>(1,065)</u>
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance increase	<u>(910)</u>	<u>(746)</u>	<u>(1,656)</u>
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance increase	<u>(1,302)</u>	<u>(236)</u>	<u>(1,538)</u>
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance increase	<u>(1,925)</u>	<u>(1,625)</u>	<u>(3,550)</u>
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance increase	<u>(8,513)</u>	<u>(3,723)</u>	<u>(12,236)</u>
Total	\$227,458	\$88,201	\$315,659

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$292,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total	ALG 4-4-23 (7-11)
Dickinson Research Center				
New FTE positions	(\$252,000)	\$0	(\$252,000)	
Vacant FTE positions	(139,802)	0	(139,802)	
Total	(\$391,802)	\$0	(\$391,802)	
Central Grasslands Research Center				
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)	
Hettinger Research Center				
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)	
Langdon Research Center				
New FTE positions	(\$176,000)	\$0	(\$176,000)	
Vacant FTE positions	(72,245)	(24,665)	(96,910)	
Total	(\$248,245)	(\$24,665)	(\$272,910)	
North Central Research Center				
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)	
Williston Research Center				
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)	
Carrington Research Center				
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)	
Total Branch Research Centers				
New FTE positions	(\$428,000)	\$0	(\$428,000)	
Vacant FTE positions	(813,319)	(319,812)	(1,133,131)	
Total	(\$1,241,319)	(\$319,812)	(\$1,561,131)	

House Bill No. 1020 - NDSU Extension Service - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Extension Service	\$56,530,224	\$62,624,491	(\$3,886,654)	\$58,737,837
Soil Conservation Committee	1,211,520	1,361,520	150,000	1,511,520
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143
General fund	\$29,437,823	\$33,617,498	(\$2,354,284)	\$31,263,214
FTE	241.77	255.70	(1.00)	254.70

Department 630 - NDSU Extension Service - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Cropping System Initiative ²	Removes New FTE Position for the 4-H Initiative ³	Increases Funding for Operations ⁴	Removes Salary Funding for Funding Pool ⁵	Total Senate Changes
Extension Service	\$767,891	(\$220,000)	(\$240,000)	\$70,000	(\$4,264,545)	(\$3,886,654)
Soil Conservation Committee				150,000		150,000
Total all funds	\$767,891	(\$220,000)	(\$240,000)	\$220,000	(\$4,264,545)	(\$3,736,654)
Less estimated income	380,828	0	0	0	(1,763,198)	(1,382,370)
General fund	\$387,063	(\$220,000)	(\$240,000)	\$220,000	(\$2,501,347)	(\$2,354,284)
FTE	0.00	0.00	(1.00)	0.00	0.00	(1.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$220,000 from the general fund to provide a total of \$480,000 for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

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³ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE added by the House for the 4-H initiative. The Senate did not remove \$80,000 from the general fund added by the House for 4-H operating expenses.

⁴ Funding of \$220,000 from the general fund is added for operating support, including \$70,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee, to provide a total of \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁵ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
New FTE positions	(\$820,000)	\$0	(\$820,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,501,347)	(\$1,763,198)	(\$4,264,545)

House Bill No. 1020 - Northern Crops Institute - Senate Action

	<u>Base Budget</u>	<u>House Version</u>	<u>Senate Changes</u>	<u>Senate Version</u>
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256
FTE	13.55	18.15	0.00	18.15

Department 638 - Northern Crops Institute - Detail of Senate Changes

	<u>Adjusts Funding for Salary and Benefit Increases¹</u>	<u>Removes Salary Funding for Funding Pool²</u>	<u>Total Senate Changes</u>
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$13,593	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Senate Action

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	Base Budget	House Version	Senate Changes	Senate Version
Main Research Center	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	57,087,956	160,561,927	(935,613)	159,626,314
General fund	\$54,588,232	\$64,337,334	(\$4,199,145)	\$60,138,189
FTE	334.56	362.47	(4.00)	358.47

Department 640 - Main Research Center - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Funding for the Climate Smart Agriculture Initiative ²	Removes Funding for Bee and Apiary Research ³	Removes Funding for Precision Agriculture ⁴	Adjusts Funding for Operations ⁵	Removes Funding for the Spud Research Fast Track ⁶
Main Research Center	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Total all funds	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
FTE	0.00	(2.00)	(1.00)	0.00	0.00	(1.00)

	Removes Salary Funding for Funding Pool ⁷	Increases Funding for Deferred Maintenance ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Senate Changes
Main Research Center	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Total all funds	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Less estimated income	(1,844,395)	500,000	0	(935,613)
General fund	(\$3,763,807)	\$0	\$500,000	(\$4,199,145)
FTE	0.00	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed by the Senate.

³ Funding of \$262,000 from the general fund and 1 new FTE added by the House for bee and apiary research are removed by the Senate.

⁴ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed by the Senate.

⁵ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed by the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁶ Funding of \$250,000 from the general fund and 1 new FTE added by the House for a spud research fast track are removed by the Senate.

⁷ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

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	General Fund	Other Funds	Total
New FTE positions	(\$269,000)	\$0	(\$269,000)
Vacant FTE positions	(3,494,807)	(1,844,395)	(5,339,202)
Total	(\$3,763,807)	(\$1,844,395)	(\$5,608,202)

⁸ One-time funding is increased by \$500,000 from the strategic investment and improvements fund (SIIF) to provide a total of \$1 million for deferred maintenance. The House provided \$500,000 from SIIF for deferred maintenance.

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	1,579,655	1,628,794	970	1,629,764
General fund	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Senate Changes
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	9,282	(8,312)	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	Other Funds
Salary increase	\$9,637
Health insurance adjustment	(355)
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	Other Funds
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Senate Action

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This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure.

REPORT OF STANDING COMMITTEE

HB 1020, as engrossed: Appropriations Committee (Sen. Bekkedahl, Chairman) recommends **AMENDMENTS AS FOLLOWS** and when so amended, recommends **DO PASS** (15 YEAS, 0 NAYS, 1 ABSENT AND NOT VOTING). Engrossed HB 1020 was placed on the Sixth order on the calendar. This bill does not affect workforce development.

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,207,613	\$58,737,837
Soil conservation committee	1,211,520	300,000	1,511,520
Total all funds	\$57,741,744	\$2,507,613	\$60,249,357
Less estimated income	<u>28,303,921</u>	<u>682,222</u>	<u>28,986,143</u>
Total general fund	\$29,437,823	\$1,825,391	\$31,263,214
Full-time equivalent positions	241.77	12.93	254.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	<u>\$3,909,760</u>	<u>\$5,640,941</u>	<u>\$9,550,701</u>
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	<u>1,922,618</u>	<u>5,517,827</u>	<u>7,440,445</u>
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	<u>\$23,527,957</u>	<u>\$1,570,236</u>	<u>\$25,098,193</u>
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	<u>19,042,350</u>	<u>959,427</u>	<u>20,001,777</u>
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	<u>\$111,676,188</u>	<u>\$108,088,315</u>	<u>\$219,764,503</u>
Total all funds	\$111,676,188	\$108,088,315	\$219,764,503
Less estimated income	<u>57,087,956</u>	<u>102,538,358</u>	<u>159,626,314</u>
Total general fund	\$54,588,232	\$5,549,957	\$60,138,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	<u>9,827,963</u>	<u>239,286</u>	<u>10,067,249</u>
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>228,047</u>	<u>20,950,865</u>
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$50,109</u>	<u>\$1,629,764</u>
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,705,128	\$117,773,415
Grand total other funds	<u>128,659,318</u>	<u>109,975,990</u>	<u>238,635,308</u>
Grand total all funds	\$237,727,605	\$118,681,118	\$356,408,723"

Page 4, replace line 4 with:

"Deferred maintenance	\$500,000	\$1,000,000"
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Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project	0	1,700,000"
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Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,903,830
Total other funds	<u>12,327,000</u>	<u>106,195,600</u>
Total general fund	\$500,000	\$3,708,230"

Page 5, line 24, replace "\$99,400,000" with "\$89,900,000"

Page 7, line 12, replace "\$2,400,000" with "\$2,900,000"

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron Hall replacement project"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Transportation Institute				
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777
General fund	<u>\$4,485,607</u>	<u>\$5,427,961</u>	<u>(\$331,545)</u>	<u>\$5,096,416</u>
FTE	43.88	43.88	0.00	43.88
Branch Research Centers				
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865
General fund	<u>\$18,569,483</u>	<u>\$19,961,201</u>	<u>(\$795,861)</u>	<u>\$19,165,340</u>
FTE	108.21	110.81	1.00	111.81
NDSU Extension Service				
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143
General fund	<u>\$29,437,823</u>	<u>\$33,617,498</u>	<u>(\$2,354,284)</u>	<u>\$31,263,214</u>
FTE	241.77	255.70	(1.00)	254.70
Northern Crops Institute				
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445
General fund	<u>\$1,987,142</u>	<u>\$2,156,538</u>	<u>(\$46,282)</u>	<u>\$2,110,256</u>
FTE	13.55	18.15	0.00	18.15
Main Research Center				
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	57,087,956	160,561,927	(935,613)	159,626,314
General fund	<u>\$54,588,232</u>	<u>\$64,337,334</u>	<u>(\$4,199,145)</u>	<u>\$60,138,189</u>
FTE	334.56	362.47	(4.00)	358.47
Agronomy Seed Farm				
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	1,579,655	1,628,794	970	1,629,764
General fund	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
FTE	3.00	3.00	0.00	3.00
Bill total				
Total all funds	\$237,727,605	\$366,831,559	(\$10,422,836)	\$356,408,723
Less estimated income	128,659,318	241,331,027	(2,695,719)	238,635,308
General fund	<u>\$109,068,287</u>	<u>\$125,500,532</u>	<u>(\$7,727,117)</u>	<u>\$117,773,415</u>
FTE	744.97	794.01	(4.00)	790.01

House Bill No. 1020 - Transportation Institute - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Upper Great Plains Trans. Institute	<u>\$23,527,957</u>	<u>\$25,528,332</u>	<u>(\$430,139)</u>	<u>\$25,098,193</u>
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777
General fund	<u>\$4,485,607</u>	<u>\$5,427,961</u>	<u>(\$331,545)</u>	<u>\$5,096,416</u>
FTE	43.88	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Senate Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed by the Senate.

House Bill No. 1020 - Branch Research Centers - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340
FTE	108.21	110.81	1.00	111.81

Department 628 - Branch Research Centers - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Senate Changes
Dickinson Research Center	\$38,976		\$292,000	(\$391,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$292,000	(\$1,561,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$292,000	(\$1,241,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance increase	(1,657)	0	(1,657)
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance increase	(887)	(59)	(946)
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance increase	(1,082)	(742)	(1,824)
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance increase	(750)	(315)	(1,065)
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance increase	(910)	(746)	(1,656)
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance increase	(1,302)	(236)	(1,538)
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance increase	(1,925)	(1,625)	(3,550)
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance increase	(8,513)	(3,723)	(12,236)
Total	\$227,458	\$88,201	\$315,659

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$292,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is

removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Dickinson Research Center			
New FTE positions	(\$252,000)	\$0	(\$252,000)
Vacant FTE positions	(139,802)	0	(139,802)
Total	(\$391,802)	\$0	(\$391,802)
Central Grasslands Research Center			
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)
Hettinger Research Center			
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)
Langdon Research Center			
New FTE positions	(\$176,000)	\$0	(\$176,000)
Vacant FTE positions	(72,245)	(24,665)	(96,910)
Total	(\$248,245)	(\$24,665)	(\$272,910)
North Central Research Center			
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)
Williston Research Center			
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)
Carrington Research Center			
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)
Total Branch Research Centers			
New FTE positions	(\$428,000)	\$0	(\$428,000)
Vacant FTE positions	(813,319)	(319,812)	(1,133,131)
Total	(\$1,241,319)	(\$319,812)	(\$1,561,131)

House Bill No. 1020 - NDSU Extension Service - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Extension Service	\$56,530,224	\$62,624,491	(\$3,886,654)	\$58,737,837
Soil Conservation Committee	1,211,520	1,361,520	150,000	1,511,520
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143
General fund	\$29,437,823	\$33,617,498	(\$2,354,284)	\$31,263,214
FTE	241.77	255.70	(1.00)	254.70

Department 630 - NDSU Extension Service - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Cropping System Initiative ²	Removes New FTE Position for the 4-H Initiative ³	Increases Funding for Operations ⁴	Removes Salary Funding for Pool ⁵	Total Senate Changes
Extension Service	\$767,891	(\$220,000)	(\$240,000)	\$70,000	(\$4,264,545)	(\$3,886,654)
Soil Conservation Committee				150,000		150,000
Total all funds	\$767,891	(\$220,000)	(\$240,000)	\$220,000	(\$4,264,545)	(\$3,736,654)
Less estimated income	380,828	0	0	0	(1,763,198)	(1,382,370)
General fund	\$387,063	(\$220,000)	(\$240,000)	\$220,000	(\$2,501,347)	(\$2,354,284)
FTE	0.00	0.00	(1.00)	0.00	0.00	(1.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$220,000 from the general fund to provide a total of \$480,000 for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

³ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE added by the House for the 4-H initiative. The Senate did not remove \$80,000 from the general fund added by the House for 4-H operating expenses.

⁴ Funding of \$220,000 from the general fund is added for operating support, including \$70,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee, to provide a total of \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁵ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$820,000)	\$0	(\$820,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,501,347)	(\$1,763,198)	(\$4,264,545)

House Bill No. 1020 - Northern Crops Institute - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256
FTE	13.55	18.15	0.00	18.15

Department 638 - Northern Crops Institute - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Senate Changes
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$13,593	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Main Research Center	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	57,087,956	160,561,927	(935,613)	159,626,314
General fund	\$54,588,232	\$64,337,334	(\$4,199,145)	\$60,138,189
FTE	334.56	362.47	(4.00)	358.47

Department 640 - Main Research Center - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Funding for the Climate Smart Agriculture Initiative ²	Removes Funding for Bee and Apiary Research ³	Removes Funding for Precision Agriculture ⁴	Adjusts Funding for Operations ⁵	Removes Funding for the Spud Research Fast Track ⁶
Main Research Center	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Total all funds	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
FTE	0.00	(2.00)	(1.00)	0.00	0.00	(1.00)

	Removes Salary Funding for Funding Pool ⁷	Increases Funding for Deferred Maintenance ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Senate Changes
Main Research Center	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Total all funds	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Less estimated income	(1,844,395)	500,000	0	(935,613)
General fund	(\$3,763,807)	\$0	\$500,000	(\$4,199,145)
FTE	0.00	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed by the Senate.

³ Funding of \$262,000 from the general fund and 1 new FTE added by the House for bee and apiary research are removed by the Senate.

⁴ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed by the Senate.

⁵ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed by the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁶ Funding of \$250,000 from the general fund and 1 new FTE added by the House for a spud research fast track are removed by the Senate.

⁷ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$269,000)	\$0	(\$269,000)
Vacant FTE positions	(3,494,807)	(1,844,395)	(5,339,202)
Total	(\$3,763,807)	(\$1,844,395)	(\$5,608,202)

⁸ One-time funding is increased by \$500,000 from the strategic investment and improvements fund (SIIF) to provide a total of \$1 million for deferred maintenance. The House provided \$500,000 from SIIF for deferred maintenance.

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	1,579,655	1,628,794	970	1,629,764
General fund	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Senate Changes
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	9,282	(8,312)	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	Other Funds
Salary increase	\$9,637
Health insurance adjustment	(355)
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	Other Funds
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Senate Action

This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure.

2023 CONFERENCE COMMITTEE

HB 1020

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
4/14/2023
Conference Committee

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson opened the meeting at 1:35 PM

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Pyle, Sen. Erbele, Sen. Wanzek, Sen. Roers

Discussion Topics:

- Budget 627
- Budget 628
- Budget 640
- Budget 630

Senator Erbele goes over Senate changes.

Budgets 627, 628, 640, 630 used for discussion (#27586, #27587, #27589, #27588)

Chairman Monson closed the meeting at 2:19 PM

Leah Kuball, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
4/17/2023
Conference Committee

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson opened the meeting at 11:00 PM

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Pyle, Sen. Erbele, Sen. Wanzek, Sen. Roers

Discussion Topics:

- Budgets 640, 630, 627
- 4-H programs
- Additional FTE's
- Potato research

Budgets 640, 630, 627, used for discussion (#27589, #27588, #27586)

Chairman Monson closed the meeting at 11:54 PM

Leah Kuball, Committee Clerk

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
4/18/2023

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson opened the meeting at 8:15 AM

Members present: Chairman Monson, Vice Chair Brandenburg, Rep. Pyle, Sen. Erbele, Sen. Wanzek, Sen. Roers

Discussion Topics:

- **Committee action**

Representative Brandenburg moves that the Senate recedes their amendments and they amend as follows; by removing potato fast track and reinstate at \$225,000.

Representative Pyle seconds motion.

Motion carries 6-0-0

House carrier: Representative Monson

Senate carrier: Senator Erbele

Chairman Monson closed the meeting at 8:16 PM

Leah Kuball, Committee Clerk

Reconsidered on 4/21/23.

**2023 HOUSE CONFERENCE COMMITTEE
ROLL CALL VOTES**

BILL NO. HB 1020 as engrossed

House Government Opps. Committee

- Action Taken HOUSE accede to Senate Amendments
 HOUSE accede to Senate Amendments and further amend
 SENATE recede from Senate amendments
 SENATE recede from Senate amendments and amend as follows

 Unable to agree, recommends that the committee be discharged and a new committee be appointed

Motion Made by: Representative Brandenburg Seconded by: Representative Pyle

Representatives	4/14	4/17	4/18	Yes	No		Senators	4/14	4/17	4/18	Yes	No
Chairman Monson	x	x	x	x			Sen. Erbele	x	x	x	x	
Representative Pyle	x	x	x	x			Sen. Wanzek	x	x	x	x	
Representative Brandenburg	x	x	x	x			Sen. Roers	x	x	x	x	
Total Rep. Vote				3	0		Total Senate Vote				3	0

Vote Count Yes: 6 No: 0 Absent: 0

House Carrier Chairman Monson Senate Carrier Sen. Erbele

LC Number _____ . _____ of amendment

LC Number _____ . _____ of engrossment

Emergency clause added or deleted

Statement of purpose of amendment

Representative Brandenburg moves that the Senate recedes their amendments and they amend as follows; **by removing potato fast track and reinstate at \$225,000.**

2023 HOUSE STANDING COMMITTEE MINUTES

Appropriations - Government Operations Division Brynhild Haugland Room, State Capitol

HB 1020
4/21/2023
Conference Committee

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm; to provide for a report; and to provide an exemption

Chairman Monson opened the meeting at 9:41 AM

Members present: Chairman Monson, Representative Brandenburg, Rep. Pyle, Sen. Erbele, Sen. Wanzek, Sen. Roers

Discussion Topics:

- Budget 628 #27774
- Budget 630 #27775
- Budget 640 #27776
- Amendment 23.0249.02004

Senator Wanzek Moves to reconsider actions to HB 1020 on 4/18/23

Representative Pyle seconds motion

Roll call vote: 6-0-0

Chairman Monson goes over (23.0249.02004) (#27777)

Senator Erbele Moves for Senate to recedes Senate amendments and amend as follows; adopt (23.0249.02004)

Representative Pyle Seconds

Senator Erbele (#27779)

Roll call vote: 6-0-0

House carrier: Chairman Monson

Senate carrier: Senator Erbele

Chairman Monson closed the meeting at 9:53 AM

Leah Kuball, Committee Clerk

DR
1712
4-21-23

PROPOSED AMENDMENTS TO ENGROSSED HOUSE BILL NO. 1020

That the Senate recede from its amendments as printed on pages 1685-1694 of the House Journal and pages 1419-1427 of the Senate Journal and that Engrossed House Bill No. 1020 be amended as follows:

Page 1, line 14, replace "July 1, 2023," with "with the effective date of this Act"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,002,613	\$58,532,837
Soil conservation committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$2,152,613	\$59,894,357
Less estimated income	<u>28,303,921</u>	<u>682,222</u>	<u>28,986,143</u>
Total general fund	\$29,437,823	\$1,470,391	\$30,908,214
Full-time equivalent positions	241.77	10.93	252.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,640,941	\$9,550,701
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	1,922,618	5,517,827	7,440,445
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$1,570,236	\$25,098,193
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	19,042,350	959,427	20,001,777
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

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MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$107,718,315	\$219,394,503
Total all funds	\$111,676,188	\$107,718,315	\$219,394,503
Less estimated income	57,087,956	102,288,358	159,376,314
Total general fund	\$54,588,232	\$5,429,957	\$60,018,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	9,827,963	239,286	10,067,249
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	20,722,818	228,047	20,950,865
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$50,109	\$1,629,764
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,230,128	\$117,298,415
Grand total other funds	128,659,318	109,725,990	238,385,308
Grand total all funds	\$237,727,605	\$117,956,118	\$355,683,723"

Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project 0 1,700,000"

Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,403,830
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,708,230"

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Page 5, line 24, replace "\$99,400,000" with "\$89,400,000"

Page 6, after line 10, insert:

"SECTION 8. NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - POTATO FAST TRACK. The estimated income line item in subdivision 4 of section 1 of this Act includes \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts at the North Dakota state university main research center."

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron hall replacement project"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Transportation Institute						
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	<u>19,042,350</u>	<u>20,100,371</u>	<u>(98,594)</u>	<u>20,001,777</u>	<u>20,001,777</u>	<u>0</u>
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00
Branch Research Centers						
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	<u>20,722,818</u>	<u>21,182,476</u>	<u>(231,611)</u>	<u>20,950,865</u>	<u>20,950,865</u>	<u>0</u>
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00
NDSU Extension Service						
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	<u>28,303,921</u>	<u>30,368,513</u>	<u>(1,382,370)</u>	<u>28,986,143</u>	<u>28,986,143</u>	<u>0</u>
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)
Northern Crops Institute						
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	<u>1,922,618</u>	<u>7,488,946</u>	<u>(48,501)</u>	<u>7,440,445</u>	<u>7,440,445</u>	<u>0</u>
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00
Main Research Center						
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	<u>57,087,956</u>	<u>160,561,927</u>	<u>(1,185,613)</u>	<u>159,376,314</u>	<u>159,626,314</u>	<u>(250,000)</u>
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00
Agronomy Seed Farm						
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	<u>1,579,655</u>	<u>1,628,794</u>	<u>970</u>	<u>1,629,764</u>	<u>1,629,764</u>	<u>0</u>

General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00
Bill total						
Total all funds	\$237,727,605	\$366,831,559	(\$11,147,836)	\$355,683,723	\$356,408,723	(\$725,000)
Less estimated income	128,659,318	241,331,027	(2,945,719)	238,385,308	238,635,308	(250,000)
General fund	\$109,068,287	\$125,500,532	(\$8,202,117)	\$117,298,415	\$117,773,415	(\$475,000)
FTE	744.97	794.01	(6.00)	788.01	790.01	(2.00)

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House Bill No. 1020 - Transportation Institute - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Upper Great Plains Trans. Institute	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777	20,001,777	0
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00

Department 627 - Transportation Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Conference Committee Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys, the same as the Senate. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed, the same as the Senate.

House Bill No. 1020 - Branch Research Centers - Conference Committee Action

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	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712	\$7,232,712	
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519	3,595,519	
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278	5,298,278	
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039	3,166,039	
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752	5,277,752	
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656	5,478,656	
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249	10,067,249	
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865	20,950,865	0
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00

Department 628 - Branch Research Centers - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Conference Committee Changes
Dickinson Research Center	\$38,976		\$250,000	(\$349,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$250,000	(\$1,519,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$250,000	(\$1,199,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance adjustment	<u>(1,657)</u>	<u>0</u>	<u>(1,657)</u>
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance adjustment	<u>(887)</u>	<u>(59)</u>	<u>(946)</u>
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance adjustment	<u>(1,082)</u>	<u>(742)</u>	<u>(1,824)</u>
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance adjustment	<u>(750)</u>	<u>(315)</u>	<u>(1,065)</u>
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance adjustment	<u>(910)</u>	<u>(746)</u>	<u>(1,656)</u>
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance adjustment	<u>(1,302)</u>	<u>(236)</u>	<u>(1,538)</u>
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance adjustment	<u>(1,925)</u>	<u>(1,625)</u>	<u>(3,550)</u>
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance adjustment	<u>(8,513)</u>	<u>(3,723)</u>	<u>(12,236)</u>
Total	\$227,458	\$88,201	\$315,659

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The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center, the same as the Senate. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$250,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The Senate added \$292,000 for the agronomist position. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

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	General Fund	Other Funds	Total
Dickinson Research Center			
New FTE positions	(\$210,000)	\$0	(\$210,000)
Vacant FTE positions	(139,802)	0	(139,802)
Total	(\$349,802)	\$0	(\$349,802)
Central Grasslands Research Center			
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)
Hettinger Research Center			
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)
Langdon Research Center			
New FTE positions	(\$176,000)	\$0	(\$176,000)
Vacant FTE positions	(72,245)	(24,665)	(96,910)
Total	(\$248,245)	(\$24,665)	(\$272,910)
North Central Research Center			
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)
Williston Research Center			
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)
Carrington Research Center			
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)
Total Branch Research Centers			
New FTE positions	(\$386,000)	\$0	(\$386,000)
Vacant FTE positions	(813,319)	(319,812)	(1,133,131)
Total	(\$1,199,319)	(\$319,812)	(\$1,519,131)

House Bill No. 1020 - NDSU Extension Service - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Extension Service	\$56,530,224	\$62,624,491	(\$4,091,654)	\$58,532,837	\$58,737,837	(\$205,000)
Soil Conservation Committee	1,211,520	1,361,520		1,361,520	1,511,520	(150,000)
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143	28,986,143	0
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)

Department 630 - NDSU Extension Service - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Cropping System Initiative ²	Reduces Funding for the Livestock Development Initiative ³	Removes New FTE Position for the 4-H Initiative ⁴	Increases Funding for Operations ⁵	Removes Salary Funding for Funding Pool ⁶
Extension Service	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Soil Conservation Committee						
Total all funds	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Less estimated income	380,828	0	0	0	0	(1,763,198)
General fund	\$387,063	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$2,091,347)
FTE	0.00	(1.00)	(1.00)	(1.00)	0.00	0.00

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	Reduces Funding for the Farm and Ranch Safety Initiative ⁷	Total Conference Committee Changes
Extension Service Soil Conservation Committee	(\$125,000)	(\$4,091,654)
Total all funds	(\$125,000)	(\$4,091,654)
Less estimated income	0	(1,382,370)
General fund	(\$125,000)	(\$2,709,284)
FTE	0.00	(3.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$460,000 from the general fund to provide a total of \$240,000 and 1 new FTE soybean pathologist position for the cropping system initiative. The Senate reduced funding by \$220,000 from the general fund to provide a total of \$480,000 for 2 new FTE positions for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

³ Funding of \$250,000 from the general fund included by the House and Senate for a new FTE veterinary epidemiologist position is removed by the conference committee.

⁴ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE position added by the House for the 4-H initiative, the same as the Senate. The conference committee did not remove \$80,000 from the general fund added by the House for 4-H operating expenses, the same as the Senate.

⁵ Funding of \$70,000 from the general fund is added for NDSU Extension Service operating support to provide a total of \$220,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee operating support. The Senate provided \$520,000 from the general fund, including \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁶ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$410,000)	\$0	(\$410,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,091,347)	(\$1,763,198)	(\$3,854,545)

⁷ Funding of \$250,000 from the general fund included by the House and Senate for the farm and ranch safety and health initiative is reduced by \$125,000 by the conference committee.

House Bill No. 1020 - Northern Crops Institute - Conference Committee Action

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	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445	7,440,445	0
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00

Department 638 - Northern Crops Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Conference Committee Changes
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$13,583	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Main Research Center	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	57,087,956	160,561,927	(1,185,613)	159,376,314	159,626,314	(250,000)
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00

Department 640 - Main Research Center - Detail of Conference Committee Changes

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4-21-23

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Big Data Initiative ²	Removes Funding for the Climate Smart Agriculture Initiative ³	Removes Funding for Bee and Apiary Research ⁴	Removes Funding for Precision Agriculture ⁵	Adjusts Funding for Operations ⁶
Main Research Center	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Total all funds	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
FTE	0.00	0.00	(2.00)	(1.00)	0.00	0.00

	Adjusts Funding for a Potato Fast Track ⁷	Removes Salary Funding for Funding Pool ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Conference Committee Changes
Main Research Center		(\$5,559,202)	\$500,000	(\$5,504,758)
Total all funds	\$0	(\$5,559,202)	\$500,000	(\$5,504,758)
Less estimated income	250,000	(1,844,395)	0	(1,185,613)
General fund	(\$250,000)	(\$3,714,807)	\$500,000	(\$4,319,145)
FTE	(1.00)	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for the big data initiative is reduced by \$169,000 to provide \$220,000 for 1 new FTE position and \$80,000 for operating costs. Both the House and Senate provided \$469,000 for the big data initiative.

³ Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed, the same as the Senate.

⁴ Funding of \$262,000 from the general fund and 1 new FTE position added by the House for bee and apiary research are removed, the same as the Senate.

⁵ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed, the same as the Senate.

⁶ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed, the same as the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support, the same as the Senate. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁷ Funding is adjusted to provide \$250,000 from other funds for a potato fast track. The House added \$250,000 from the general fund and 1 new FTE position for spud research and the Senate removed the funding.

⁸ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$220,000)	\$0	(\$220,000)
Vacant FTE positions	(3,494,807)	(1,844,395)	(5,339,202)
Total	(\$3,714,807)	(\$1,844,395)	(\$5,559,202)

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11/12
4-21-23

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project, the same as the Senate. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	1,579,655	1,628,794	970	1,629,764	1,629,764	0
General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00

Department 649 - Agronomy Seed Farm - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Conference Committee Changes
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	9,282	(8,312)	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	Other Funds
Salary increase	\$9,637
Health insurance adjustment	(355)
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	Other Funds
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Conference Committee Action

This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds, the same as the Senate. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure, the same as the Senate.

- Does not add \$500,000 from SIIF added by the Senate for deferred maintenance.
- Adds a section to designate \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts.

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4-21-23

**2023 HOUSE CONFERENCE COMMITTEE
 ROLL CALL VOTES**

BILL/ NO. HB 1020 as engrossed

House Gov Opps Appropriations Committee

- Action Taken** **HOUSE accede to Senate Amendments**
 HOUSE accede to Senate Amendments and further amend
 SENATE recede from Senate amendments
 SENATE recede from Senate amendments and amend as follows
- Unable to agree**, recommends that the committee be discharged and a new committee be appointed

Motion reconsidered

Motion Made by: Senator Wanzek Seconded by: Representative Pyle

Representatives					Senators				
	4/21		Yes	No		4/21		Yes	No
Chairman Monson	x		x		Senator Erbele	x		x	
Vice Chairman Brandenburg	x		x		Senator Wanzek	x		x	
Representative Pyle	x		x		Senator J. Roers	x		x	
Total Rep. Vote			3	0	Total Senate Vote			3	0

Vote Count Yes: 6 No: 0 Absent: 0

House Carrier _____ Senate Carrier _____

LC Number _____ . _____ of amendment

LC Number _____ . _____ of engrossment

Emergency clause added or deleted

Statement of purpose of amendment

**2023 HOUSE CONFERENCE COMMITTEE
 ROLL CALL VOTES**

BILL/ NO. HB 1020 as engrossed

House Gov Opps Appropriations Committee

- Action Taken** **HOUSE accede to Senate Amendments**
 HOUSE accede to Senate Amendments and further amend
 SENATE recede from Senate amendments
 SENATE recede from Senate amendments and amend as follows
- Unable to agree**, recommends that the committee be discharged and a new committee be appointed

Motion Made by: Senator Erbele Seconded by: Representative Pyle

Representatives	4/21		Yes	No		Senators	4/21		Yes	No
Chairman Monson	x		x			Senator Erbele	x		x	
Vice Chairman Brandenburg	x		x			Senator Wanzek	x		x	
Representative Pyle	x		x			Senator J. Roers	x		x	
Total Rep. Vote			3	0		Total Senate Vote			3	0

Vote Count Yes: 6 No: 0 Absent: 0

House Carrier Chairman Monson Senate Carrier Senator Erbele

LC Number 23.0249 . .02004 of amendment

LC Number 23.0249 . .04000 of engrossment

Emergency clause added or deleted

Statement of purpose of amendment

REPORT OF CONFERENCE COMMITTEE

HB 1020, as engrossed: Your conference committee (Sens. Erbele, Wanzek, K. Roers and Reps. Monson, Pyle, Brandenburg) recommends that the **SENATE RECEDE** from the Senate amendments as printed on HJ pages 1685-1694, adopt amendments as follows, and place HB 1020 on the Seventh order:

That the Senate recede from its amendments as printed on pages 1685-1694 of the House Journal and pages 1419-1427 of the Senate Journal and that Engrossed House Bill No. 1020 be amended as follows:

Page 1, line 14, replace "July 1, 2023," with "with the effective date of this Act"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,002,613	\$58,532,837
Soil conservation committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$2,152,613	\$59,894,357
Less estimated income	<u>28,303,921</u>	<u>682,222</u>	<u>28,986,143</u>
Total general fund	\$29,437,823	\$1,470,391	\$30,908,214
Full-time equivalent positions	241.77	10.93	252.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	<u>\$3,909,760</u>	<u>\$5,640,941</u>	<u>\$9,550,701</u>
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	<u>1,922,618</u>	<u>5,517,827</u>	<u>7,440,445</u>
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	<u>\$23,527,957</u>	<u>\$1,570,236</u>	<u>\$25,098,193</u>
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	<u>19,042,350</u>	<u>959,427</u>	<u>20,001,777</u>
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$107,718,315	\$219,394,503
Total all funds	\$111,676,188	\$107,718,315	\$219,394,503
Less estimated income	<u>57,087,956</u>	<u>102,288,358</u>	<u>159,376,314</u>
Total general fund	\$54,588,232	\$5,429,957	\$60,018,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	<u>9,827,963</u>	<u>239,286</u>	<u>10,067,249</u>
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>228,047</u>	<u>20,950,865</u>
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$50,109</u>	<u>\$1,629,764</u>
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,230,128	\$117,298,415
Grand total other funds	<u>128,659,318</u>	<u>109,725,990</u>	<u>238,385,308</u>
Grand total all funds	\$237,727,605	\$117,956,118	\$355,683,723"

Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project	0	1,700,000"
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Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,403,830
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,708,230"

Page 5, line 24, replace "\$99,400,000" with "\$89,400,000"

Page 6, after line 10, insert:

"SECTION 8. NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - POTATO FAST TRACK. The estimated income line item in subdivision 4 of section 1 of this Act includes \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts at the North Dakota state university main research center."

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron hall replacement project"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Transportation Institute						
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777	20,001,777	0
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00
Branch Research Centers						
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865	20,950,865	0
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00
NDSU Extension Service						
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143	28,986,143	0
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)
Northern Crops Institute						
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445	7,440,445	0
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00
Main Research Center						
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	57,087,956	160,561,927	(1,185,613)	159,376,314	159,626,314	(250,000)
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00
Agronomy Seed Farm						
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	1,579,655	1,628,794	970	1,629,764	1,629,764	0
General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00
Bill total						
Total all funds	\$237,727,605	\$366,831,559	(\$11,147,836)	\$355,683,723	\$356,408,723	(\$725,000)
Less estimated income	128,659,318	241,331,027	(2,945,719)	238,385,308	238,635,308	(250,000)
General fund	\$109,088,287	\$125,500,532	(\$8,202,117)	\$117,298,415	\$117,773,415	(\$475,000)
FTE	744.97	794.01	(6.00)	788.01	790.01	(2.00)

House Bill No. 1020 - Transportation Institute - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Upper Great Plains Trans. Institute	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777	20,001,777	0
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00

Department 627 - Transportation Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Conference Committee Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys, the same as the Senate. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed, the same as the Senate.

House Bill No. 1020 - Branch Research Centers - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712	\$7,232,712	
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519	3,595,519	
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278	5,298,278	
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039	3,166,039	
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752	5,277,752	
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656	5,478,656	
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249	10,067,249	
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865	20,950,865	0
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00

Department 628 - Branch Research Centers - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Conference Committee Changes
Dickinson Research Center	\$38,976		\$250,000	(\$349,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$250,000	(\$1,519,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$250,000	(\$1,199,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

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 House Carrier: Monson
 Senate Carrier: Erbele

	General Fund	Other Funds	Total
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance adjustment	(1,657)	0	(1,657)
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance adjustment	(887)	(59)	(946)
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance adjustment	(1,082)	(742)	(1,824)
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance adjustment	(750)	(315)	(1,065)
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance adjustment	(910)	(746)	(1,656)
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance adjustment	(1,302)	(236)	(1,538)
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance adjustment	(1,925)	(1,625)	(3,550)
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance adjustment	(8,513)	(3,723)	(12,236)
Total	\$227,458	\$88,201	\$315,659

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center, the same as the Senate. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$250,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The Senate added \$292,000 for the agronomist position. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

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 House Carrier: Monson
 Senate Carrier: Erbele

	General Fund	Other Funds	Total
Dickinson Research Center			
New FTE positions	(\$210,000)	\$0	(\$210,000)
Vacant FTE positions	(139,802)	0	(139,802)
Total	(\$349,802)	\$0	(\$349,802)
Central Grasslands Research Center			
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)
Hettinger Research Center			
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)
Langdon Research Center			
New FTE positions	(\$176,000)	\$0	(\$176,000)
Vacant FTE positions	(72,245)	(24,665)	(96,910)
Total	(\$248,245)	(\$24,665)	(\$272,910)
North Central Research Center			
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)
Williston Research Center			
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)
Carrington Research Center			
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)
Total Branch Research Centers			
New FTE positions	(\$386,000)	\$0	(\$386,000)
Vacant FTE positions	(813,319)	(319,812)	(1,133,131)
Total	(\$1,199,319)	(\$319,812)	(\$1,519,131)

House Bill No. 1020 - NDSU Extension Service - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Extension Service	\$56,530,224	\$62,624,491	(\$4,091,654)	\$58,532,837	\$58,737,837	(\$205,000)
Soil Conservation Committee	1,211,520	1,361,520		1,361,520	1,511,520	(150,000)
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143	28,986,143	0
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)

Department 630 - NDSU Extension Service - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Cropping System Initiative ²	Reduces Funding for the Livestock Development Initiative ³	Removes New FTE Position for the 4-H Initiative ⁴	Increases Funding for Operations ⁵	Removes Salary Funding for Funding Pool ⁶
Extension Service	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Soil Conservation Committee						
Total all funds	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Less estimated income	380,828	0	0	0	0	(1,763,198)
General fund	\$387,063	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$2,091,347)
FTE	0.00	(1.00)	(1.00)	(1.00)	0.00	0.00

	Reduces Funding for the Farm and Ranch Safety Initiative ⁷	Total Conference Committee Changes
Extension Service	(\$125,000)	(\$4,091,654)
Soil Conservation Committee		
Total all funds	(\$125,000)	(\$4,091,654)
Less estimated income	0	(1,382,370)
General fund	(\$125,000)	(\$2,709,284)
FTE	0.00	(3.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

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 Senate Carrier: Erbele

	General Fund	Other Funds	Total
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$460,000 from the general fund to provide a total of \$240,000 and 1 new FTE soybean pathologist position for the cropping system initiative. The Senate reduced funding by \$220,000 from the general fund to provide a total of \$480,000 for 2 new FTE positions for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

³ Funding of \$250,000 from the general fund included by the House and Senate for a new FTE veterinary epidemiologist position is removed by the conference committee.

⁴ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE position added by the House for the 4-H initiative, the same as the Senate. The conference committee did not remove \$80,000 from the general fund added by the House for 4-H operating expenses, the same as the Senate.

⁵ Funding of \$70,000 from the general fund is added for NDSU Extension Service operating support to provide a total of \$220,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee operating support. The Senate provided \$520,000 from the general fund, including \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁶ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$410,000)	\$0	(\$410,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,091,347)	(\$1,763,198)	(\$3,854,545)

⁷ Funding of \$250,000 from the general fund included by the House and Senate for the farm and ranch safety and health initiative is reduced by \$125,000 by the conference committee.

House Bill No. 1020 - Northern Crops Institute - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445	7,440,445	0
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00

Department 638 - Northern Crops Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Conference Committee Changes
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$13,583	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Main Research Center	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	57,087,956	160,561,927	(1,185,613)	159,376,314	159,626,314	(250,000)
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00

Department 640 - Main Research Center - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Big Data Initiative ²	Removes Funding for the Climate Smart Agriculture Initiative ³	Removes Funding for Bee and Apiary Research ⁴	Removes Funding for Precision Agriculture ⁵	Adjusts Funding for Operations ⁶
Main Research Center	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Total all funds	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
FTE	0.00	0.00	(2.00)	(1.00)	0.00	0.00

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 House Carrier: Monson
 Senate Carrier: Erbele

	Adjusts Funding for a Potato Fast Track ⁷	Removes Salary Funding for Funding Pool ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Conference Committee Changes
Main Research Center		(\$5,559,202)	\$500,000	(\$5,504,758)
Total all funds	\$0	(\$5,559,202)	\$500,000	(\$5,504,758)
Less estimated income	250,000	(1,844,395)	0	(1,185,613)
General fund	(\$250,000)	(\$3,714,807)	\$500,000	(\$4,319,145)
FTE	(1.00)	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for the big data initiative is reduced by \$169,000 to provide \$220,000 for 1 new FTE position and \$80,000 for operating costs. Both the House and Senate provided \$469,000 for the big data initiative.

³ Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed, the same as the Senate.

⁴ Funding of \$262,000 from the general fund and 1 new FTE position added by the House for bee and apiary research are removed, the same as the Senate.

⁵ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed, the same as the Senate.

⁶ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed, the same as the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support, the same as the Senate. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁷ Funding is adjusted to provide \$250,000 from other funds for a potato fast track. The House added \$250,000 from the general fund and 1 new FTE position for spud research and the Senate removed the funding.

⁸ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$220,000)	\$0	(\$220,000)
Vacant FTE positions	(3,494,807)	(1,844,395)	(5,339,202)
Total	(\$3,714,807)	(\$1,844,395)	(\$5,559,202)

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project, the same as the Senate. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	1,579,655	1,628,794	970	1,629,764	1,629,764	0
General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00

Department 649 - Agronomy Seed Farm - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Conference Committee Changes
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	9,282	(8,312)	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	Other Funds
Salary increase	\$9,637
Health insurance adjustment	(355)
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	Other Funds
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Conference Committee Action

This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds, the same as the Senate. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure, the same as the Senate.
- Does not add \$500,000 from SIIF added by the Senate for deferred maintenance.
- Adds a section to designate \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts.

Engrossed HB 1020 was placed on the Seventh order of business on the calendar.

TESTIMONY

HB 1020

Testimony for Main Research and Branch Stations – Phil Murphy, NDSGA

Thank you for doing all you can to support the people doing research both at the main and branch stations. Having visited several of the places supporting both animal and plant research, it is obvious that what these institutions have accomplished have allowed modern ND agriculture to prosper and move from monoculture to a leader in several crops in our country and the world. We would not have the high yields, drought or disease resistant varieties that have excelled in our climate without them. Please do whatever you can to fully fund these people and their programs which play such an important role in keeping our Ag sector one of the pillars of our state.

Testimony for Agronomy Seed Farm –Phil Murphy for the NDSGA

While the seed farm is financed wholly by their seed sales, the NDSGA nonetheless asks that you approve of their budget so that their valuable work for soybeans and other commodities may continue. Please understand that the person who is in charge of the place has overcome the difficulties that being one of my former students presents and give him due credit. Brian and the crew pay for their salaries, benefits, machinery and buildings while raising valuable seed and providing ground as well for researchers from the main station to come out with their tweezers and magnifying glasses so that new crosses of varieties can keep our soybean industry ahead of the evolving perils. Please do support these folks and all of their good work and thank you for your work on these budgets during these long days of the session.

Testimony for Research and Extension – Phil Murphy for NDSGA

Please do support the many people and programs of NDSU Research and Extension to the fullest extent possible. They have not only contributed talents, knowledge and given care to our agricultural producers, but to their families and communities as well for nearly the entire history of our state. The successes of both Research and Extension have been keys to our survival in rural ND. Again, thank you for helping rural ND by keeping these people and programs.

Northland

POTATO GROWERS ASSOCIATION



NORTHLAND
POTATOES

January 12, 2023

RE: Support Letter for HB 1020

Chairman Monson and Members of the House Appropriations Committee,

The Northland Potato Growers Association (NPGA), representing North Dakota potato growers, supports HB 1020, and specifically, the following SBARE priorities:

1. Agricultural Experiment Station Initiative-Plant Protection and Production. Scientists to conduct crop disease research and DREC agronomist.
 - a. Plant diseases are a constant concern for producers. Several of these are caused by bacterial plant pathogens including Goss' wilt of corn and Dickeya soft rot of potatoes, both which can cause tens of millions in damage. Other, longer-established bacterial diseases in the state, such as common blight of dry bean and ring rot of potato, reduce producer profitability and can limit seed production in the state. New virus diseases such as potato virus Y, have emerged and hamper efforts to breed new crop varieties and reduce producer profitability.
2. Extension Program Initiative-Cropping System. Extension specialists to work on western crop production, weed management, on farm research.
 - a. Additional expertise and educational programs are needed in response to new and emerging plant diseases and fungicide-resistant pathogens that limit crop yields, controlling the spread of noxious and invasive weeds, and advancing cropping systems that sequester soil carbon, increase plant growth, retain water and build soil health.
3. Capital Improvement-Ag Field Lab-a cornerstone of facilities needed for agronomic research. House work for breeding, plant pathology, soil science, and high value crops. Replace aging facilities, modernize research capability, recruit the best and the brightest researchers.
 - a. Waldron Hall, Widakas Laboratory, the Potato Research Laboratory, and the Horticulture laboratory were all built between the 1940s and 1960s prior to modern equipment commonly used in field research, and at a time when field crop production yields in North Dakota were much lower. This facility must support research in tuber and root crops, such as potatoes.

We would strongly encourage this committee to approve funding for the above priorities to keep ND as an agriculture economic leader.

Thank you,
DocuSigned by:

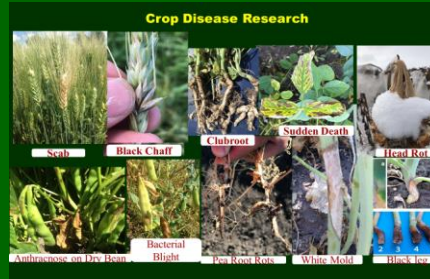
Donavan K. Johnson

Donavan K. Johnson
President

420 Business Hwy 2 • P.O. Box 301 • East Grand Forks, MN 56721 • 218-773-3633 • Fax 218-773-6227

NDSU Langdon Research Extension Center Testimony – HB1020

Randy Mehlhoff, LREC Director – January 16, 2023



2021/23 ND Legislative Appropriation Update

- \$473,000 Appropriated for Langdon REC Plant Pathology Greenhouse.
- Lowest Bid was \$724,430 (\$251,430 over).
- Important Plant Pathology Research Data Delayed Because of No Greenhouse.
- **Request 2021/23 Greenhouse Carry Over Funding and Possibly an Increase in Appropriation.**

2023 Research/Extension Programming Update

- Soil Health Extension Program in its 10th Year of Existence and has Benefitted Extension Agents, Crop Consultants and Family Operations. Performed 329 Deep Soil Samples for 122 Family Farmers in 14 ND Counties to Assess Soil Health.
- Crop Pathology Research Data Continues to be in High Demand with Evolving and new Crop Diseases on Principle Crops Grown in ND.
- Foundation Seed Production at Langdon has Increased from 350 Acres to 600 Acres Providing Foundation Grade Crop Seed for the Regions Growers
- Traditional Cropping Systems Research in Crop Variety Testing, Weed Control, New/Emerging Crops, etc. Continues to be in High Demand by Producers.
- Extension Cropping System Specialist at Langdon Chairing the Extension Crops Program Planning Team. Especially Important with Many New Extension Agents in ND.

Immediate Research/Extension Programming Needs 2023/25

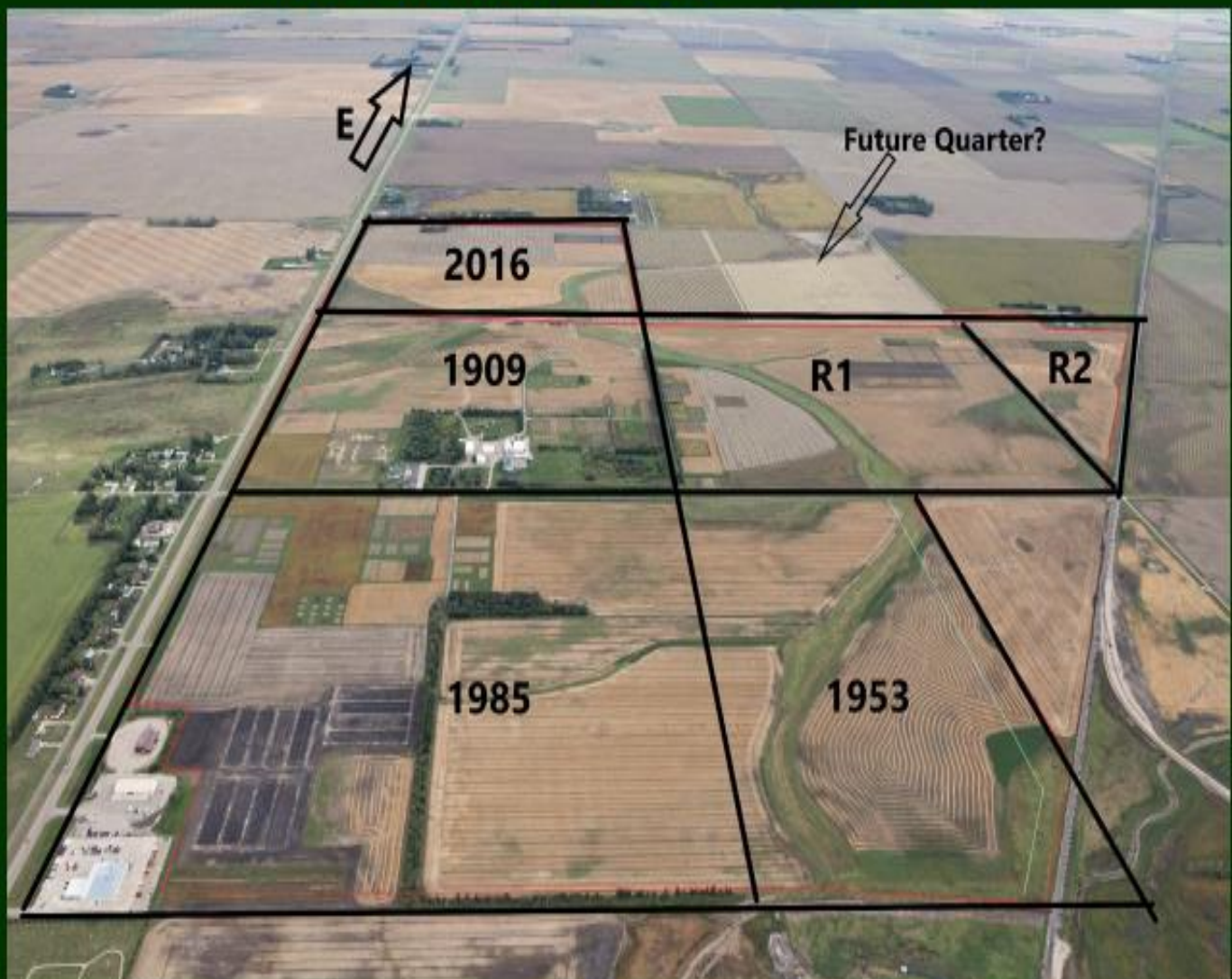
- **One fte supporting the Langdon REC Plant Pathology Research Effort. (SBARE AES Priority # 1)**
- **Funding the Needs Based Budget Requests for the AES and Extension in the Priority List Order as Set by the SBARE.**

Immediate Capital Project Needs 2023/25

- A new Equipment Storage Shed to House Expensive Small Plot Machinery and Other Implements.
- One Time Request for Extra-Ordinary Repairs on Aging Infrastructure.



LREC Land Base – 755 ac



LEGISLATIVE TESTIMONY – AGRONOMY SEED FARM**HOUSE APPROPRIATIONS COMMITTEE HEARINGS****Testimony by: Brian Otteson, Director****Bill No. 1020; Budget No. 649****January 16th, 2023**

Good morning, Chairman Monson, members of the committee. My name is Brian Otteson, I am the Director of the Agronomy Seed Farm at Casselton ND. We are part of the NDSU Agricultural Experiment Station. Today, I would like to give you a brief update on the Agronomy Seed Farm and our activities the past two years.

Many of you may be familiar with the Agronomy Seed Farm, but for those who are not, the Agronomy Seed Farm has been in operation since 1950, located just 1-mile SW of Casselton. It began as an idea from the ND Crop Improvement Association to start a seed farm dedicated to producing high quality, pure Foundation seed of newly released public varieties by the ND Agricultural Experiment Station. Seed producers in the state have direct access and first choice to these varieties every year. The seed farm produces Foundation seed of winter wheat, spring wheat, barley, oat, field pea and soybean. On average, we produce 25 varieties for seed each year and distribute 33,00 bushels of seed each year. Our land base includes approximately 1400 acres across three locations at Casselton, Prosper and Fargo. The seed farm utilizes about 1100 of these acres for seed production while the remaining 300 acres are dedicated to the research plots and breeding nurseries for the main station scientists.

In addition to producing Foundation Seed, we also provide support to the main station scientists at NDSU. Our support primarily consists of land management and providing crop rotations for the research plots at the Casselton, Prosper and Fargo sites. In addition, we work closely with the plant breeding projects on new variety development and initial breeders seed increases. We also collaborate with the ND Crop Improvement & Seed Association and the NDSU Foundation Seedstocks project on distribution of new seed increases to the seed growers across the state.

The seed farm has just three FTE's and one part time seasonal student employee. Our budget remains mostly unchanged from year to year, with only small increases for salary adjustments and health care premium increases. Beyond normal operation expenses, we continue to replace and update aging farm equipment as the budget allows. When the seed farm was set up, the intention was for it to be 100% self-supportive with no state general funds included in this budget. This has always been the case for the past 73 years that the seed farm has been in operation and continues today. We continue to operate well within our current budget.

Today, I am not asking for any general fund appropriations since we are 100% self-supported, but rather, I am just asking for your support in approving our budget so we can continue to operate as we have in the past.

Thank you for your time today and I'd be happy to answer any questions you may have.

Testimony to North Dakota House Appropriations Committee: HB 1020
North Dakota State University
North Central Research Extension Center, Minot, ND
January 2023

Mr. Chairman and Members of the Committee: Thank you for the opportunity to address this committee and discuss a few of the significant research and extension accomplishments of the North Central Research Extension Center (NCREC) that directly impact North Dakotans. For the record, I am Shana Forster, director of the NDSU North Central Research Extension Center located in Minot, ND. I have previously served in other roles within both the NDSU Agricultural Experiment Station and NDSU Extension, but have served in my current role as the director of the NCREC since 2016.

The NCREC's current mission areas include, but are not limited to, agronomy research, pulse crops breeding, Extension education in the areas of cropping systems, forage crops production, and crop protection, Foundation seed increase, weed science research, and winter hardy grapes. We strive to provide unbiased, scientific information to farmers and ranchers. I will provide a few updates on current research and Extension programs.

Dr. Brian Jenks, weed scientist at the NCREC has been evaluating weed seed from farmers for many years. Specialty crop block grants from the ND Department of Agriculture provide funding support for this research which is conducted in the NCREC greenhouse during the winter months. The information provided directly to farmers will enable them to make more knowledgeable decisions about herbicide application and crop rotations. His program primarily evaluated suspected chemical resistance in yellow and green foxtail. During the 2022 growing season, many crop consultants and farmers reported issues after herbicide application in that the weed kochia was not controlled effectively. For the last few months, these kochia populations were screened in the NCREC greenhouse and Dr. Jenks determined that some kochia populations in western ND likely have developed resistance to two commonly used preplant burndown herbicides. These preplant herbicides are of utmost importance to producers, especially those practicing minimal tillage. The loss of these herbicides leaves farmers with limited control options, but the information provided by this research enables farmers to make the best management decisions for their operations.

All North Dakota State University Extension Specialists work closely with our county-based Extension agents. Two Extension Specialists housed out of the NCREC, Dr. Leo Bortolon and Dr. James Rogers have worked collaboratively with NDSU Extension agent, Rachel Wald in McHenry county. Following a round table event with McHenry county famers and ranchers, a critical issue emerged; soil health, specifically how to best manage unproductive areas of a field. Drs. Bortolon and Rogers have the technical expertise, background and knowledge in cropping systems and forage production to best solve these problems. Working closely with the producers and county agent, they have begun sampling unproductive sites in grower fields. Test results will help determine what might be causing the issue. Moving forward, Leo, James and Rachel will continue to educate and provide answers to questions using science-based information. Their goal is to make recommendations for managing sites to better improve crop and livestock production.

The critical priority at the NCREC is hiring and retaining diverse candidates to strengthen and expand our research and Extension activities. SBARE considers this the critical need for the NDSU AES and Extension.

In addition, an increase in operating support is needed to our research and Extension activities. Operating money will be used to pursue additional collaborative projects within our NDSU network and with outside scientific partners. Currently, our scientists spend much of their time actively pursuing grant dollars that over time have become much more limited. Additional operating support is vital to our continued efforts.

I extend my thank you to this committee and the entire North Dakota Legislature for your support of the NCREC, NDAES, ND Extension, SBARE Initiatives, and NDSU. We appreciate your continued support.

Shana M. Forster, Director
North Central Research Extension Center
5400 Hwy 83 S (701) 857-7679
Minot, ND 58701 shana.forster@ndsu.edu

Testimony for H.B. 1020

Good morning.

My name is Greg Goodman, REC Advisory Board member for the Langdon Research Center. I am a 5th generation farmer, crop insurance agent, and a Cavalier County Commissioner.

Thank you for taking the time this morning to listen to testimony on H.B. 1020. There are three main points that I wish to address with you regarding funding for the Langdon Research Center.

First, the previous legislative session approved funding for a pathology greenhouse at the Langdon REC. Unfortunately, due to COVID and the ensuing supply chain disruption, the greenhouse was not constructed. It is our hope that carryover funding for this project remain in place to complete this building. We would also appreciate additional funding added to the project to offset the inflationary environment that has driven up the costs of construction. The Langdon REC had to turn down grant funds in the past year due to not having this building completed. Crop disease research and management is critical to our area farmers, and this building would allow vital studies to continue 12 months out of the year.

To compliment the existing and future crop disease research, we are also looking to fund one FTE Research Technician at our facility. This position is strongly supported by SBARE and would greatly enhance the ability for the Research Center to identify and understand the various crop diseases that continue to present challenges to production agriculture.

Finally, the Langdon Research Center invested in equipment recently that needs to be cared for no different than many of the high-dollar machinery farmers operate today. This equipment is valuable to the continued research and seed production at the Center. We are asking you to fund a building to store this equipment so it can stay out of the elements and extend the equipment's useful life. SBARE has indicated the need for this project in their capital project initiative.

Thank you for your time,

Greg Goodman

1205 11th St.

Langdon, ND 58249

(701) 370-7997

Good morning, Chairman Monson and Members of the House Appropriations-Government Operations subcommittee. For the record I am Chris Augustin and serve as director of the Dickinson Research Extension Center. I am a farm kid from rural Crystal North Dakota. Thank you for this opportunity to communicate to you the value of the Dickinson Research Extension Center and how we can improve the lives of more North Dakotans.

The Dickinson Research Extension Center conducts research and outreach for southwest North Dakota that is sensible and sustainable. Thank you for your past support. We open bids for our new lab/shop this coming Wednesday.

I am grateful for the hard work and perseverance of our team. I am pleased to report that during last year's calving season that coincided with the April blizzards, we lost only one calf. Camping on cots at the Manning Ranch shop, the ranch crew fought 36 inches of snow paired with 40 mph winds to ensure the wellness of our cattle. With dedicated employees such as these, it is key the state provide an employee compensation package that addresses some of the inflationary pressures our staff face.

I support the SBARE priority list for the Ag experiment station, capital improvements, and NDSU Extension. The Plant Production and Protection Initiative would bring a much-needed research agronomist to the Dickinson Research Extension Center. This critical position would greatly improve farmer's bottom line as that person would lead a robust agronomy research program. Numerous diseases, insects, and weeds prey upon our livelihood. The research agronomist would study ways to better manage these issues and evaluate best management practices of new crops. Part of a research agronomist's duty is to find and identify methods that work under our conditions; so that farmers do not have to test on their own farms and incur unnecessary expenses by trial and error.

The SBARE capital improvement request for a Field Lab Facility request of \$97,000,000 can positively impact southwest North Dakota farmers. The improved plant breeding could lead to crop varieties that are resistant to the growing issue of soil acidity and aluminum toxicity.

Solutions could be discovered for diseases like Aphanomyces which are crippling acres of field peas and lentils.

Our Research Extension Centers have expensive farm equipment. SBARE's number 2 request is construction of equipment storage sheds. Storing the equipment in sheds is needed to prolong their life and maximize the investment for that equipment.

Thank you for your time. I am proud of what the Dickinson Research Extension Center has accomplished, but feel we are not meeting our charge without a research agronomist.

Testimony to North Dakota House Appropriations Committee
Jan 16, 2023
North Dakota State University
NDSU Agriculture Experiment Station & Research Extension Centers

Good morning, my name is Mike Ostlie, the director of the Carrington Research Extension Center. Chairman Monson and House Appropriations Committee members, thank you for the opportunity to address your committee.

The staff of the Carrington Center are proud to be a part of the network of RECs and Main campus researchers and Extension specialists who work with crop and livestock producers to address the needs of today's agriculture. CREC researchers routinely collaborate with recently supported initiatives including the Big Data, Microbiome, and Precision Ag Initiatives. These collaborations are already greatly advancing our ability to answer complex questions about North Dakota production agriculture.

The Carrington Center would like to extend thanks for past support of capital projects to enhance our livestock research capabilities. These projects are critical to the future of North Dakota's livestock industry, in particular with regards to utilization of feedstuffs generated by the growing biofuels industry as well as the promotion of expanded opportunities for livestock production in the state. We would appreciate your support in providing a time extension to your original allocation and additional funding so the current projects can be completed. We are seeking an increase to the funds for the livestock capital projects which received bids that were either too high or received no bids over the past year.

South-east and south-central North Dakota has the most heat units available for many of our row crops, including dry beans, corn, and soybeans, allowing producers to plant the highest maturity varieties or hybrids in the state. This region is critically served by CREC, off-station locations, along with its Oakes Irrigation Research Site. We ask for your support of AES SBARE Priority #2 in order to meet the demand of increased operational support to counter inflationary pressures and specifically to support the Oakes Irrigation Research Site. This site provides valuable dryland and irrigated reference data to some of the highest yielding corn and soybean acres in the state, including variety performance, water use efficiency, microbial inputs for nitrogen and phosphorous, and plant disease mitigation.

Agronomy research and Foundation Seedstocks programs have expanded over the past decade at CREC. This has resulted in research and field equipment storage that is inadequate. We are asking for support of the storage shed capital improvement project so that our equipment can be stored out of the elements and away from rodent exposure where many items currently reside. Thank you for your time today.

Mike Ostlie, Director
Carrington Research Extension Center
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E-mail: Mike.Ostlie@ndsu.edu



January 13, 2023

Honorable Don Vigessa
House Appropriations
North Dakota Legislative Council
State Capitol
600 East Boulevard
Bismarck, ND 58505-0360

Dear House Appropriations, Representative Don Vigessaa, Chairman:

Western Region Economic Development (WRED) representing Divide, McKenzie, Mountrail, and Williams Counties of North Dakota, supports HB1020, and specifically, the SBARE priority of capital improvement and one-time request for the Nesson Valley Facility of the NDSU Williston Research Extension Center.

The Nesson Valley Irrigation Research and Development Project is located 27 miles from Williston and the irrigation staff currently utilize a small office and bathroom in a chemical storage building.

A Research and Technology Transfer and Research facility is needed for office and lab space and a conference room for irrigation conferences and grower meetings to support the expansion of irrigation and food processing industries in western North Dakota.

Expanded agricultural economic development in western North Dakota will be driven mostly by expanded irrigation research and development as the catalyst to promote new and expanded production of high value crops and irrigated agricultural processing capability. The MonDak Irrigation Frontier has the potential to expand to 500,000 acres.

WRED strongly encourages this committee to approve full funding of this budget request for the NDSU Williston Research Extension.

Sincerely,

A handwritten signature in black ink that reads "Ann Kvande". The signature is fluid and cursive, with the first name "Ann" being more prominent.

Ann Kvande
Executive Officer



Chairman Monson and members of the House Appropriations Committee. My name is Luke Anderson, I am part owner and operator Anderson Seed Farms Inc. in Forman, ND. I also am a representative on the advisory council for the Agronomy Seed farm in the SE District. Since 1958 we have produced, conditioned, and sold Certified Seed. We have raised many crops throughout our history and the origin of many of these varieties have come from the Agronomy Seed Farm in Casselton, ND. We have relied on the research and expertise of NDSU, NDSU Extension, ND Ag Experiment Station, and the Agronomy Seed Farm, to provide us with quality foundation seed varieties that have played a major role in our success as seed operation and the success of our farmer growers who have relied on the seed we produce.

The economic benefits that the Agronomy Seed Farm provides for seed producers in the state of North Dakota and surrounding region are greater than most realize. I can attest to this personally as a seed producer and farmer. Without the Agronomy Seed Farm's work in research trials and foundation seed production, area growers would not have the access to the scientific data and quality seed needed to grow NDSU seed varieties. This contribution creates an economic benefit to not only the state of North Dakota and NDSU, but also to the farmers of North Dakota and the surrounding region.

As a member of the Advisory council, I can also say that everyone at the Agronomy Seed Farm operates in the upmost professional manner. They are meticulous at not only producing clean and pure seed for farmers but also manage many research trials that provide seed growers and researchers important data on seed varieties.

In closing, I am asking for the approval of the Agronomy Seed Farm's budget. The Agronomy Seed Farm is self-supported and does not require any general fund appropriations which supports how efficient and successful the Agronomy Seed Farm has been for the people of the great state of North Dakota.

Thank you for your time and the opportunity to provide this testimony.

Sincerely,

Luke Anderson
Anderson Seed Farms Inc.
SE District Rep. Agronomy Seed Farm Advisory Council.

Testimony of Jim Pellman, Vice-Chair, North Dakota Wheat Commission

HB 1020

January 20, 2023

Good morning Mr. Chairman and members of the Senate Appropriations Committee. For the record, my name is Jim Pellman, I am Vice-Chair of the North Dakota Wheat Commission. My family farms near McClusky, North Dakota.

The Wheat Commission has a long-standing, leveraged, and very productive research partnership with North Dakota State University's Agricultural Experiment Station. The Wheat Commission strongly supports House Bill 1020 and the priorities of the State Board of Agricultural Research and Education (SBARE). HB1020 includes critical funding for the NDSU Experiment Station, NDSU Extension, and additional partner entities, all of which are extremely important to North Dakota's Agricultural Research, Infrastructure, Time-proven Market Development Programs, and Success of our Dedicated Producers.

Research and Extension programs are the lifeblood of innovation and advancement of new technologies critical to the continued, demonstrated successes of North Dakota agriculture; and are a high priority for the Wheat Commission and the producers of North Dakota.

1—New Technologies/Driving Innovation: Advancements in Technology are quickly adopted statewide by our innovative producers, dramatically increasing Total Productivity, Consistency and Value in North Dakota's number one industry and chief revenue generator.

2—ROI: Agricultural Research in North Dakota generates a Return on Investment (ROI) of 40 to 1 for every dollar invested.

3—Economic Stability/Resiliency: Over the past decade Average Annual (Farm Gate) Value of North Dakota's Total Agricultural Output (Simply Price X Production) is estimated at nearly \$10 Billion. In the 2022-23 production and marketing year this value is anticipated to approach \$12 Billion. North Dakota Agriculture is currently performing at Higher Levels and with Greater Consistency than perhaps ever before.

4—Welcome Diversification/Broader Enterprise Base: Today, Four Main Pillars, Wheat, Soybeans, Corn, and Livestock, account for 80 percent of total value. High value specialty crops such as sugar beets, potatoes, barley, sunflower, canola, dry beans, peas, lentils, flax, and hay crops, make up the remaining 20 percent. Increasingly diversified crop and enterprise choices add Flexibility and Resiliency. Producers are becoming better equipped to take advantage of additional market opportunities, or adjust cropping and management strategies when challenging conditions occur.

5—Positive Identity/Market Access: HB1020 provides opportunity to further advance upward trajectories in Yields, Output, and Unequaled Global Reputation for Quality, Product Performance and Customer Satisfaction; ultimately unlocking additional access, fostering durable demand, and continued repeat business in High Value Domestic and Export Markets worldwide. Our wheat producers have actively developed long term customer relationships in more than 60 countries and are experiencing enviable market growth, particularly in Asia.

6—Great Reputation/Terrific Legacy/Expansion Welcome: North Dakota Agriculture has a well recognized and enviable Global Reputation as a Dependable, Consistent Supplier of High Quality, High Value Products. This is Certainly a Great Platform Moving Forward.

The North Dakota Wheat Commission would like to thank you for your past and ongoing support for North Dakota Agriculture, and for this opportunity to share a few supportive thoughts regarding these important programs.

If you have questions I will certainly try to answer them.



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Testimony of Northern Canola Growers Association

The Northern Canola Growers Association, which represents over 3,000 canola growers in North Dakota that produce nearly 82 percent of canola grown in the U.S., would like to extend its support for the SBARE initiatives, particularly the equipment storage sheds, and technician support for the plant pathology program at the Langdon Research Center (LREC). We also understand the bids for a greenhouse at the LREC from last session came in over the authorized amount and would support efforts to fully fund a greenhouse.

Canola has enjoyed tremendous success since the crop started to take off in the late 90's and acres have tripled since then. With the increase in acres, we had to focus on challenges with obtaining crop protection products for use on canola in the early years, to focusing on monitoring pests and diseases of canola even more intently in the last 15 years.

We rely heavily on the NDSU experts to aid the industry in addressing these challenges. We have a long-standing relationship with the Langdon Research Extension Center because it is in the heart of canola acreage in the state. Dr. Chapara has spent many hours trying to understand the implications and management of clubroot in canola. His research has involved identifying areas of the disease within the county, expanding to a state-wide survey, and researching products to control this disease in canola. Now his workload is increasing due to the increased prevalence of a newly discovered disease in canola, verticillium stripe, which has discovered by Canadian researchers in Saskatchewan and Manitoba and is now being detected in northern North Dakota.

As many of you have probably heard, in November, a canola oil pathway was approved by the EPA for production of renewable diesel and other products as a result of the canola industry's petition submitted to the EPA over two years ago. Market analysts estimate we will need double the amount of canola we currently produce just to meet the needs of this new market for canola. This does not consider the huge potential sustainable aviation fuel will bring to the market. So, to ensure NDSU can facilitate this needed growth in the acreage of canola, the initiatives I mentioned will be vital and will be a smart investment in agriculture in the state.

We urge your support for enhancements at the Langdon Research Extension Center. Thank you very much for your consideration.

NDSU Central Grasslands Research Extension Center

Enhancing Lives while Improving Ecosystem Services and
Conservation of the Grasslands



Agriculture #1 Industry in North Dakota (ND Dept. Commerce 2022)

- ◆ \$8.88 billion per year in cash receipts (NASS.USDA 2022)
- ◆ 24% of the state's population is employed in the agricultural sector
- ◆ 90% of the state's land is used for agriculture
 - * 16.4 million acres is range, pasture and hay land
- ◆ 1.85 million head of beef cattle
 - * Rank 4th in total economic value behind soybeans, wheat, and corn at \$1.15 billion
 - * Hay production ranks 6th at \$281 million

Tourism #3 Industry in North Dakota (ND State Government 2022)

- ◆ \$3.0 billion per year in visitor spending
- ◆ Much of these dollars are driven by recreational activities associated with our natural resources

Central Grasslands Research Extension Center Mission:

- ◆ Develop grazing management strategies and identifying best forage options that enhance the lives of the ranching community while revitalizing rural communities
- ◆ Study integrated grazing management strategies for range and cropland that regenerates our natural resources (increase carbon capture, increase bio-diversity, reduce water pollutants, and improve the soil biology)
- ◆ Develop best grazing management practices that enhance ecosystem services, bees and butterfly habitat, and bird habitat
- ◆ Assess impacts of management of beef cattle on reproduction and fetal development
- ◆ Train our next generation of land managers, ranchers, decision makers, industry leaders, and professionals

Accomplishments at CGREC:

1. Regenerative Agriculture and Bio-diversity

We have assessed conservation tools to increase plant diversity and regenerate grazing lands to enhance the resiliency of our forage base for livestock production while improving habitat for wildlife and pollinators. Our outcomes include:

- a. Reduce invasive grasses by 5 to 15 percent, increased plant diversity by 2x to 3x, and enhanced soil health in terms of carbon sequestration and nutrient use**
- b. Create scientific outputs that describe grazing management strategies that enhance breeding bird and pollinator habitat, which can be used when new policies are developed to show grazing cattle is needed for proper environmental function**

2. Add value to grazing lands through enhanced grazing efficiency and economic return

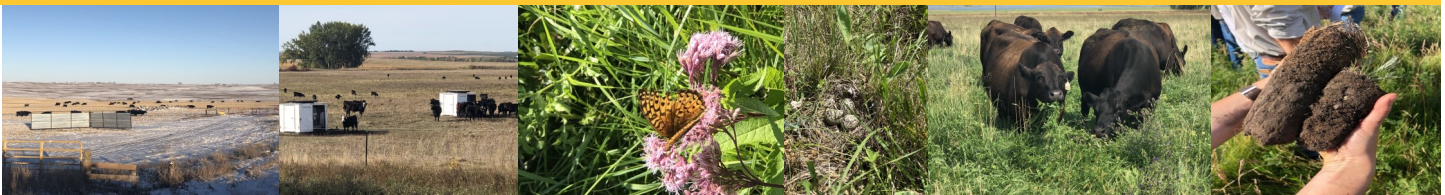
Our research shows we can increase harvest efficiency by 30 to 60 %, adding economic value to grazing lands by 25 to 35 %.

3. Assess late-season grazing and forage systems

We have shown economic efficiency through reduced fossil fuel use, labor, and depreciation to equipment while adding value to the land by incorporating grazing/feeding strategies into the winter season.

4. Study precision agriculture to enhance land management, beef cattle reproduction and nutrition

Add value to livestock in terms of genome selection, feeding efficiency, and fetal development



Needs for 2023-2025:

- ◆ Building attractive compensation packages for employees will be crucial in the recruitment and retainment of top talent.
- ◆ Extension of capital projects funded during the 67th legislative assembly, and authorization of \$175,000 for the center's residence (no additional funds requested).
- ◆ A one-time request for \$400,000 to complete the livestock research laboratory and replicated feeding facility.

**Kevin Sedivec, Interim Director Central Grasslands Research Extension
Center, North Dakota State University**

Testimony for the 68th Legislative Assembly – HB 1020 Appropriations

January 16, 2023

Chair Monson, House Appropriation Committee Members. For the record, my name Kevin Sedivec, Interim Director for Central Grasslands Research Extension Center.

I want to thank the committee for the opportunity to provide testimony today. For those who do not know me, I am a native of North Dakota, born and raised in the Mandan area. The Central Grasslands Research Extension Center is located near Streeter. It is a little over an hour from Bismarck and 40 minutes from Jamestown.

The center's overall mission is to conduct research and Extension programming on Grazing and Forage Management to increase the economic value to the ranching community and ecological function for conservation within the Missouri Coteau Region.

- Our research has developed grazing strategies that increases the economic value to grazing lands by 25 to 35 percent, while increasing livestock performance and enhancing breeding bird populations and pollinator habitat
- We've studied numerous annual forage crops to help ranchers better select which species to grow for forage production and quality
- We have accessed late-season grazing and forage options that have shown to increase economic efficiency through reduced fossil fuel use, labor, and depreciation to equipment while adding value to the land

I would like to thank the 67th ND Legislative Assembly for funding new capital projects at the Central Grasslands Research Extension Center.

Two projects were funded within SB2020: a director's residence and pasture working facilities.

- The pasture working facilities will be completed by the end of the fiscal year under-budget
- The director's residence project was bid out with no bids received

A livestock research laboratory and replicated feeding facility was funded within SB2345 (ARPA funds).

- Although we did receive bids for this project, the bids were not accepted due to a shortfall of \$400,000 in funds needed to complete this project. The costs of material and labor were much higher than what we budgeted when we submitted the project in 2021

Our needs for the 2023-2025 budget year include:

- A request for an extension of the funds for the director's residence. Although we are not asking for additional state funds, we are requesting additional special fund authorization of \$175,000.
- We are also requesting an extension of the funds for the livestock research laboratory and replicated feeding facility; and a one-time request for an additional \$400,000 to complete the project.
- Finally, we are asking for a competitive salary package for our staff. Building attractive compensation packages for employees will be crucial in the recruitment and retainment of top talent.

We truly appreciate your support and time! I would gladly take any questions at this time.

January 16, 2023

**Testimony by Jayce Doan on behalf of the NDSU Central Grasslands Research Extension
Center for HB 1020: House Appropriations Committee**

Good morning Chair Monson and House Appropriations Committee. My name is Jayce Doan, an advisory board member on the Central Grasslands Research and Extension Center and I am present today to testify on their behalf.

I am a fifth-generation rancher on my family's ranch in south central North Dakota where we raise cattle and buffalo. We try to do this with a holistic and regenerative approach with the end goal of leaving our natural resources in a better state than we received them.

I have been on the advisory board for 3 years, just now starting my second term. I wanted to be involved with Central Grasslands because as a young producer, I know the value research can have on farmer's and rancher's operations. If we don't innovate and adapt in agriculture, generational farms and ranches will be a thing of the past. In North Dakota, we have a strong livestock industry. But more and more grasslands are being converted to row crops. Roughly 25% of native grass remains in ND, with that number decreasing every year. The Central Grasslands Research and Extension Center is vital to helping ranchers increase their bottom line and make sure the livestock industry thrives in ND.

Personally, we are very committed to conservation on our ranch. I'm very satisfied at the trials and approaches the Research Station has taken to find ways to bring our soil health back to a level to where we, as producers, aren't raping the soil and degrading it year after year. We want to be as profitable as possible in the livestock industry, and that is more than possible to do while working in sync with nature, the land, and the livestock. Central Grasslands has provided valuable information for producers to do so.

The number 1 largest cost for livestock producers on the Northern Plains is winter feed costs. The Research Station has done great work in showing different ways of winter grazing vs. supplemental feeding all winter. Central Grasslands has compared grazing range, cover crops, crop stubble, swathed windrows, bale grazing, to fed hay, silage, corn, etc. Without a research station to conduct these experiments, producers would be very unwilling to change the way they operate, not wanting to be a guinea pig and put their own ranch at risk.

Our ranch was one of six operations to partner with Central Grasslands over the last few years in a SARE study to compare different grazing intensity impacts on fall forage. This shows Central Grasslands willingness to partner with producers when possible and utilize resources in a very conservative manner.

Thank you again House Appropriations Committee for the opportunity to testify, and thank you for your continued support of the Central Grasslands Research and Extension Center.

Jayce Doan

Central Grasslands Research and Extension Center Advisory Board Member

January 13, 2023

Tim Hiatt
Bowman ND 58623-0564

Dear Members of the House Appropriations Committee:

I write to support HB 1020 and especially the funding priorities of the ND Agricultural Experiment Station regarding their proposal for Bee and Apiary Research with 2 FTEs at the Hettinger REC.

Frankly, it's long overdue that NDSU have a honey bee researcher. With North Dakota's leading role in honey production, a large portion of the nation's honey bees spend their summers here. Ensuring the health and vigor of these honey bees is a help to our economy as these many beekeepers operate here and drive economic activity.

In addition, we would begin to be doing our part in supporting the nation's pollinated agriculture. Almonds, apples, cherries, pears, berries, and vegetable seed crops all depend on pollination from hives, many of which spend their summers here. The farmers growing these crops depend on strong, healthy hives to boost, and in some cases, create, a good yield on their crops. The first honey bee researcher in the NDSU system is a good first step to do our part to support the nation's supply of vitamin-rich pollinated crops.

This proposal is for 2 FTEs, one a scientist and one an apiary technician. This is wise on the part of those who are planning this Bee and Apiary Research Program. A scientist alone can create experiments but an assisting technician can do the beekeeping required to maintain a significant base of hive upon which to conduct research. Not having a technician is a mistake many academic honey bee programs make. They conduct research in the lab but too often their results cannot be translated into relevant field-ready advice or techniques because it "doesn't scale up." A full time technician will maintain a large number of hives for research purposes and allow the scientist to devote their time to study and experiments without worrying about moving the bees out of the way of a pesticide application, or wondering if the bees are starving or are too full of honey. I heartily approve of both FTEs, especially the wisdom of the technician. The two will go hand in hand to create a valuable research program.

Please support HB 1020 and the proposed funding for the Hettinger Research Extension Center, Bee and Apiary Research Program.

Tim Hiatt
Bowman ND



North Dakota Farm Credit Council

AgCountry Farm Credit Services

Farm Credit Services of Mandan

Testimony of Dana Bohn
North Dakota Farm Credit Council Executive Director
HB 1020
January 16, 2023

Chairman Monson and members of the House Appropriations Committee - Government Operations Division, my name is Dana Bohn and on behalf of the North Dakota Farm Credit Council (NDFCC), I'd like to express our support for HB 1020.

NDFCC is comprised of two farmer/rancher-owned independent Farm Credit associations that provide credit and financial services to farmers, ranchers and agribusinesses of all sizes and income ranges in every county in North Dakota. North Dakota Farm Credit cooperatives provide about \$12.7 billion in loans to farmers, ranchers and agribusinesses and provide financial services to approximately 28,000 customers.

NDFCC supports the funding of the 2023-2025 SBARE priorities for the NDSU Extension and the North Dakota Agricultural Experiment Station. Ag research and extension continue to be one of the top priorities for North Dakota's farmers and ranchers in making decisions that lead to the highest quality product most economically produced.

We would particularly like to stress the importance of the capital improvement request of the field lab facility. This facility would address the modernization needs of Waldron Hall, Widakas laboratory, the potato research laboratory, and the horticulture laboratory.

In closing, NDFCC encourages your support of HB 1020.

Independently owned and operated associations serving North Dakota.

AgCountry FCS

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 701-282-9494 • 800-450-8933
www.agcountry.com

FCS of Mandan

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North Dakota Irrigation Association

P.O. Box 2254
Bismarck, ND 58502
701-223-4615
701-223-4645 (fax)

Dedicated to strengthening and expanding irrigation to build and diversify our economy

**House Appropriations Committee Government Operations Division
House Bill 1020
Testimony of Steve Hansen, Chairman of North Dakota Irrigation Association
January 16, 2023**

Chairman Monson and Members of the House Appropriations Government Operations Division:

North Dakota irrigators support the agricultural research and education efforts of North Dakota State University and we encourage the legislature to continue the investments in this important role.

North Dakota irrigates about 300,000 acres to produce a variety of crops including corn and cereal grain crops, livestock forage, and high value crops such as potatoes, sugar beets, and onions. Irrigation provides strong economic return, with an acre of irrigated land producing four times that of dryland in regular conditions and as much as six times in times of drought.

Irrigation provides the opportunity to grow higher value crops where top yields and exceptional quality are necessary. High quality coupled with substantial yielding potatoes have made the French fry industry, located in Grand Forks and Jamestown, successful in the state. The acreage of onions in the state is smaller than the other crops, but this crop may have an important role in the future as markets are developed. Other fruit and vegetable crops can be produced and processed in the state and the development of the markets for these crops is needed. Irrigation does and can diversify and strengthen the agricultural economy of the state. We urge the dedication of additional resources to research the opportunities for high value crops.

Irrigation also provides producers and agricultural processors dependability despite weather conditions. The drought in 2021 heightened awareness of the need for additional irrigation to support the growing value-added agriculture processing in the state. The Association is proud to partner with other commodity organizations in the state to expand awareness of the benefits of irrigation and brainstorm ways to reduce barriers to irrigation development.

North Dakota has a substantial potential of increasing irrigation. For example, approximately 300,000 acres in the Missouri River corridor have the water and soils suitable for irrigation. The Missouri River is our most bountiful water resource and irrigation is an ideal way to put that water to use.

A key part of irrigation development is continued research on irrigation practices and irrigated crops. The State Board of Agricultural Research and Education priorities include a request for capital project improvements for the Nesson Valley Irrigation site. The researchers need office and lab space, a heated shop, and a conference room. This facility would support ongoing educational efforts for irrigators as well as meetings to support expansion of irrigation in western North Dakota.

Thank you for your past support of irrigation research. Please support the SBARE priorities for the 2023-2025 biennium.

Good morning Chairman Monson and Members of the House appropriations subcommittee. I am Jade Kessel, resident of Billings County. I grew up on the family farm, and returned after college. Our farm mainly produces seed wheat, barley, and peas. We also grow corn and soybeans in our rotation, and have grown a variety of specialty crops over the years.

I am here in support of the Plant Production and Protection Initiative that would improve the livelihoods of local producers by stationing a research agronomist at the Dickinson Research Extension Center. While the staff at the DREC has done an excellent job thus far on providing research and outreach to our local producers, the addition of a research agronomist would provide another great resource.

Southwest North Dakota's soil, growing conditions, and agronomics are unique to our area. We need a research agronomist who works with local producers to understand this and the agronomics specific to our region.

A research agronomist would be able to work on emerging issues and crops. For example, I believe soybeans will continue to move west as more crush plants are built to support the increasing demand of soybean oil and renewable diesel. There are growing opportunities for producers to grow specialty crops, such as hemp and mustard. An agronomist in the area who could research and understand these alternative crops would be a valuable resource.

This person would also continue to research current issues common to southwest ND, such as growing in droughty and adverse weather conditions. Whether it is through variety selection or growing practices, drought management is a concern more often than not for producers in our area. The last few years have been a great example of some of the weather extremes we face as producers.

The investment in a new lab facility has been made and thank you for that support! It only makes sense to put the right person in place to fully utilize that asset. In turn, they will help educate and empower my fellow farmers by doing the research and providing the information we need to make informed decisions for our farms and to be profitable and sustainable in the long run.

These are but a few of the many reasons a research agronomist at the Dickinson Research Extension Center would benefit the producers they serve.

Thank you for your time and consideration.

I support funding the initiatives put forth by the SBARE board. Starting with the Ag Field Lab Facility. The Field Lab Facility will replace Waldron Hall, Widakas Lab, and the potato research facility. The Ag Field Lab facility is a critical part of infrastructure for agronomy, horticulture, plant science, plant pathology and soil science research programs. Some examples of returns possible from the new facility include the following. The Dakota Russet (potato variety accepted by McDonalds) will generate **4.4 million annually** in revenue to ND potato growers. A 5% increase in nitrogen efficiency use through better agronomic practices, better soil fertility recommendations, and better microbes for sustainable nitrogen would save nearly **60 million annually** in fertilizer costs.

All the research funding requests for the research facilities are critical especially the plant Production and Protection initiative. Crops and cropping account for 80% of gross agriculture receipts in ND. It is imperative that we keep in the forefront of that endeavor. **Ag Research pays big dividends 25% return over time.** Hard to beat that. The Big Data initiative is also important Agriculture has become more data sensitive and Big Data is becoming more critical in operational efficiency in Agriculture.

All the SBARE extension initiatives are important especially the cropping systems initiatives Eighty percent of the gross agriculture receipts in ND come from cropping systems and it is imperative that we communicate that transformational information in order to keep our producers at forefront of agriculture practices. Livestock development is important, the best return for ND feed crops is to put them through livestock. 4-H is a great development tool for the youth of ND. **4 H youth are 2 times more likely to be civically active and 4 times for likely to give back to their communities.** That is a great return on investment

In Support Of
House Bill 1020
Hearing Brynhild Haugland
Monte Peterson
North Dakota Soybean Growers Association

Chairman Monson and members of the committee Good Morning,

My name is Monte Peterson and I come before you to express my support for H.B. 1020. My wife and I have a farm south of Valley City in Barnes County where we grow Soybean, Corn and Wheat.

For committee members, whom are not as familiar with me, along with farming the last 42 years, I have volunteered time back to my fellow soybean growers during the last 15 plus years to promote the states soybean industry. First serving as a director and Chairman of the North Dakota Soybean Council for seven years and as it's Research Chair for a couple of years within that time.

I am currently serving as a director for the North Dakota Soybean Growers Association and the American Soybean Association, both advocacy organizations. I am also the immediate Past Chair of the U.S. Soybean Export Council which is tasked with building a preference for U.S. soy world wide.

I wanted to preface my remarks with that so that you may better understand my perspective about Agricultural Research.

Going back 35 years ago when I planted my first soybean field, it was nothing more than an experiment. Today 50 % of the cropland acres on our farm are planted to soybean. As I became more familiar with the state's soybean industry some 15 years ago, you could say it was still just beginning to blossom. Today we know, the states soy industry has changed dramatically.

Without the research that we have invested in, we would never be where we are today. The need for that continued research is stronger today than it was in the beginning, because without the continued unbiased, science-based information we receive through extension, we could not continue to make the strides that we have. Sure, private industry can and will offer choices, but it is land grant driven research that ground truths those options.

Whenever a crop is introduced into a new area, it needs the help of a plant breeding program that can identify a best cultivar and varietal potential for the area in which it is grown. Whenever a new crop becomes established in a new area, it needs the help from an initiative that will specialize in finding answers to the ever-evolving pathogens, diseases and pests that can affect our crops.

Just over my time with the industry, we have witnessed an increase of soybean planted acres from roughly 2 million acres to as high as 7 million acres. What started out as a crop that was planted in just a couple of counties in the southeast part of the state has grown statewide. I believe every county in the state has reported planted acres of soybean. That would not have happened without the investment in research that has been made.

I like to remember how commodity groups also leverage their dollars with these public funds to create an even bigger bang for the buck and remember how extended industry has now committed to building processing here in North Dakota. This investment pays dividends.

Production agriculture across the U.S. and here in North Dakota is changing rapidly and how quickly we build on using precision agriculture and big data and utilizing the climate smart resources we have available to us to become more sustainable is imperative. Our customers are depending on us to become more ecologically sustainable. We need research to help us with this equation.

To do all this we need qualified people and to entice those people to work here they will need competitive but fair and equitable compensation. Those on board now and those that are additionally needed must have the necessary laboratory and facilities to get the job done. I encourage the continued investment into North Dakota Agriculture and it's communities and your support for this bill.

Thank you for allowing me to provide comment today.

I support fully funding the Northern Crops Institute request for funding.

The Northern Crops Institute helps to maintain confidence in the US supply chain as it pertains to North Dakota. NCI helps foreign and domestic partners have a better understanding of crop quality and crop uses for North Dakota products. The Crops Institute is foundational in increasing the volume purchased of ND commodities on the world stage. In addition, the Northern Crops Institute uses adoptive thinking and training meet the challenges of rapidly evolving technologies critical to ND agriculture.

All these are critical for the success of the ND Economy.

**Testimony for the NDSU Williston Research Extension Center, Christopher Schauer, Acting Director
House Appropriations Hearing – HB1020
January 16, 2023**

Thank you Chairman and members of the House Appropriations Committee. For the Record, my name is Christopher Schauer and I am the Acting Director of the Williston Research Extension Center. The previous Director, Jerry Bergman, retired on November 1 and I took on Acting Director responsibilities at that time until a new Director is hired.

Thank you to the previous Legislative Assemblies for funds for the construction of our seed plant for the Foundation Seedstocks program. We have completed the building of the new seed plant and are moving forward knowing we have the right equipment in place to continue to serve the western seed industry.

The research and extension at the Williston REC continues to focus on Dryland and Irrigated Agronomy, Plant Pathology, and Weed Science. Staffing continues to be an area of emphasis in order to conduct field based research. We continue to look to new avenues to recruit staffing to the Williston area. We have continued to invest in temporary housing to address some of the staffing needs, but continued support through deferred maintenance, operating funds, and salary support is always appreciated.

The Cropping Systems Initiative in the SBARE Extension priority list, and the Plant Production and Protection Initiative in the Ag Experiment Station priority list, are both initiatives that would support the Williston REC and the regional agronomic producers. Both initiatives are ranked as a high priority by SBARE. In the Capital Improvement priority list, the Williston REC is requesting a facility for the Nesson Valley Irrigation site. An office, lab space, heated shop, and a small conference room are needed as the site is located 27 miles from Williston. The irrigation research staff currently do not have any heated facilities other than the chemical storage room. This facility would support ongoing efforts for growers related to irrigation and high value crops as well as support expansion of irrigation, food processing and livestock industries in western North Dakota.

The last item from both the past and the future is our continued effort to fund and build a Greenhouse to support all of our programs, especially our Plant Pathology program. Currently we have been authorized to fundraise up to \$500,000 for the construction of a modest facility similar to the one at the Carrington REC. Unfortunately, with the current construction market, \$500,000 is not adequate for this project. We are requesting an additional \$750,000 in authorization to continue fundraising efforts. Recent estimates indicate \$1.25 million is needed to construct the facility that was originally envisioned. We have looked at similar facilities both in MT and ND, and feel the project we had envisioned is still the correct size and scope, it has just become more expensive in the past 4 years than originally planned.

In closing, I thank you for your past support and am looking forward to another productive biennium. I will entertain any questions.

**Testimony for the NDSU Hettinger Research Extension Center, Christopher Schauer, Director
House Appropriations Hearing – HB1020
January 16, 2023**

Thank you Chairman and members of the House Appropriations Committee. For the Record, my name is Christopher Schauer and I am the Director of the Hettinger Research Extension Center.

Thank you to the 67th Legislative Assembly for funds for the construction of an equipment storage shed. We were happy that during this competitive and highly volatile construction bidding market that we were able to finish the storage shed this past fall. It was approximately 20% smaller than we had anticipated, but we are grateful the space that it provides to keep our research and production equipment out of the weather. Additionally, I would like to thank you for the Special Session funding that was provided to construct a Smart Small Ruminant Feedlot and a Livestock Lab. These facilities will bring state-of-the-art feeding and livestock handling facilities to NDSU to put us on the leading edge of livestock research: research such as finding genetic markers in livestock for feed efficiency and quantifying the impacts of livestock on greenhouse gas emissions. Both projects have been placed out for bids and we anticipate at a minimum the feedlot complex will be finished by the winter of 2023. We are still sorting through the bids for the Livestock Lab. Your previous support for deferred maintenance has also allowed us to renovate a 1970's office into graduate student and intern housing, something that was desperately needed at the HREC to continue to attract students as housing in Hettinger is in limited supply.

The research at the HREC continues to focus on Agronomy, Weed Science, Wildlife and Range Science, and Animal Science. We started a new Livestock Internship program this past year in partnership with the University of Puerto Rico. This partnership has provided reliable labor while bringing new ideas and faces to Hettinger. Similar to all of the agricultural producers in ND, labor continues to be in short supply, and this new program offers some unique ways for us to fill that gap, while still employing plenty of local and regional high school and college interns and training graduate students from across the country.

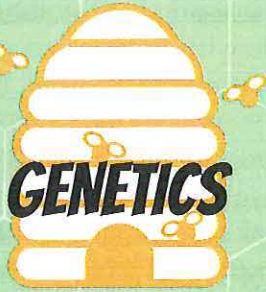
The #1 request coming from the Hettinger REC Advisory Board, with support from the ND Beekeepers Association, is the funding of a Bee and Apiary Research Program. North Dakota is the number one producer of honey in the United States. As a state, the total number of bee colonies is 495,000 or 18% of all colonies in the United States. These colonies contribute to 26% of all honey produced nationally, which is valued at approximately \$67 million. Although North Dakota produces more honey than any other state, we have no research program supporting beekeepers. North Dakota honey producers need apiary research to address pressing issues such as colony collapse and improve honey production by developing greater winter hardiness, improved mite resistance, and increased hygiene. Additionally, research can improve interactions with other agricultural systems of the state while benefitting native pollinator populations and ecosystem services through improved land use. This request made it on to the SBARE Ag Experiment Station priority list, and was suggested for funding by the Governor. A summary of what that program would look like is included with this testimony. A final item that the HREC and Advisory Board are bringing to the legislature this year is a proposed land purchase of 610 acres. This is going to be handled through a separate bill starting in the Senate. We have been renting this parcel for the 16 years and it is integral to our research program. The family has indicated they will be selling the land, but have given NDSU an opportunity to purchase it if approved by the legislature. Further information will be included in the testimony for that separate bill, but I wanted this committee to be aware of the discussion.

In closing, we support all of the initiatives in the SBARE priority list, especially items that directly affect our staff, such as increased operating support, deferred maintenance, and raises to offset the cost of inflation.

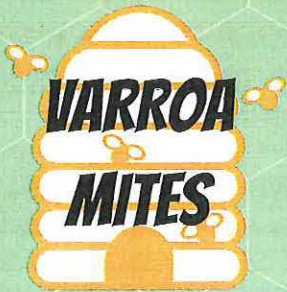
Thank you for your past support and am looking forward to another productive biennium. I will entertain any questions.

Hettinger Research Extension Center

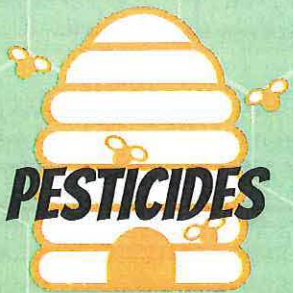
Apiary Research & Extension Program



COLONY COLLAPSE
HONEY PRODUCTION
WINTER HARDINESS
MITE RESISTANCE
HYGIENE



CONTROL



INTERACTIONS WITH
AGRICULTURE



RESOURCE ALLOCATION
INTERACTIONS WITH
NATIVE POLLINATORS



RESPONSIVENESS

NDSU

HETTINGER
RESEARCH EXTENSION CENTER

HB1020**Government Operations Division of the House Appropriations Committee****1/16/2023****Sarah Hall Lovas, SBARE Chair**

Chairman Monson and members of the Government Operations Division of the House Appropriations committee. My name is Sarah Hall Lovas and I am an agronomist from Hillsboro, ND. I currently serve as the Chair of State Board of Agricultural Research and Education (SBARE). Thank you for this opportunity to come before you today and share with you some information about the North Dakota Agricultural Research Station (NDAES), NDSU Extension (Extension), and SBARE. Thank you for your previous support for the NDAES and Extension.

The State Board of Agriculture Research (SBAR) was established by legislative decree in 1997. It was responsible for the budgeting and policy making associated with the supervision of the North Dakota Agricultural Experiment Station. The law was amended in 1999 to include responsibility for the North Dakota State University Extension Service and the name was changed to the State Board of Agricultural Research and Education (SBARE).

SBARE within the policies of the State Board of Higher Education, is responsible for the budgeting and policy making associated with the NDAES and NDSU Extension. Our role applies equally to both. I won't go through all the duties of SBARE, but they can be found in North Dakota Century Code and are also outlined on page 1 in your budget book. As required by

the ND Century Code, SBARE develops the biennial budget report by receiving grassroots information from individual producers, commodity groups, organizations, extension leaders, researchers, and agribusinesses across the state.

This past biennium, SBARE started receiving stakeholder input on November 2, 2021, and stakeholder input was concluded on January 5th, 2022. Stakeholder input was received via two in-person, oral input sessions with locations in Dickinson and Fargo, by mail submission, and electronic submission. We received input from across North Dakota and many diverse groups were represented. We heard about many diverse needs for North Dakota's Agriculture and the people of North Dakota. After stakeholder input was received, we began the prioritization process to rank programmatic initiatives based on the input we received. The Extension and NDAES programmatic priority lists, and the NDAES Capital Improvement list are in your budget book. Dr. Greg Lardy will follow me and go over our priorities in more detail. However, I do want to make this committee aware of two significant conversations that SBARE had during our prioritization process: 1) The need for a Field Lab Facility (Waldron Hall Replacement); 2) The need to enhance North Dakota state employee compensation.

Chairman Monson and Committee Members, the agriculture industry has a significant contribution to North Dakota's economy. Dean Bangsund and Nancy Hodur recently completed research to determine the contribution of North Dakota's Agriculture industry to North Dakota's economy. On December 5th in Bismarck, Governor Burgum hosted a press conference about the results of this research. Many elected leaders and others were also in attendance. The research results are astounding! Agriculture has a \$30.8 billion dollar contribution to North Dakota's economy! Agriculture accounts for about 19% of all North Dakota's employment and 20% of all

labor income. If you have a dollar in your pocket, twenty cents of that dollar would be attributed to North Dakota's agriculture industry. At the same time, agriculture research has an ROI of 25%. This is a very good return on investment. Simply put, there is no better investment for a dollar than into agriculture research and this investment improves a major economic driver for North Dakota's economy.

Those are the impacts in dollars and cents. However, there is more to this story than just the dollars and cents. I would like to share with you a bit about how Extension and the NDAES has impacted me and the State of North Dakota.

When I was a youth, I was involved in 4-H. This program taught me many important life skills which I still use today. Some of these skills I learned are practical such as sewing and cooking. However, I learned so much more through my 4-H experience. I learned how to start a project and see it all the way through, even when things don't exactly go according to plan A. I learned how to present a concept to a group of people in a logical, understandable manner. I learned the value of volunteering, service work, and giving back to your community. I learned leadership skills including how to work with people and run a meeting with parliamentary procedure. In my adult life, I have served on many boards. I'm confident that I would not have had the skills to serve in these capacities had it not been for 4-H and this includes my current role as Chair of SBARE. I look forward to hearing the testimony the 4-H'ers will give later today.

As time has moved on in my life, Extension and the NDAES have been critical to my career in agriculture. As I began my agronomy career, Extension provided crop scouting schools which provided practical education for a beginning agronomist. Since then, I continue to seek information from Extension and the NDAES. NDAES provides research that is relevant to North Dakota farming operations and Extension presents this information in manner that we can use and apply in real-world field and farming applications. Extension and NDAES provides unbiased information regarding various agronomic practices including soil and soil fertility management, managing weeds, diseases, and insects in various crops. Like other agronomists in North Dakota, I know the NDAES researchers and Extension Educators well and call them and visit with them to learn from them and stay up to date on these practices. I also continue to attend their educational events to remain a relevant agronomist. This information is the basis for majority of my agronomic recommendations to farmers.

Keep in mind that my career has focused on crop production and so I have had few interactions with livestock research and education within Extension and the NDAES. However, I have had the opportunity to tour the Hettinger REC, Streeter REC, Dickinson REC, and Carrington REC and visit with their livestock faculty and staff. I was impressed with the number of livestock producers in attendance, and I learned a lot from those presentations.

It is important to highlight the work the NDAES and Extension does to support the specialty crop production in North Dakota. Crops like dry beans and pulse crops are important to North Dakota farmers. According to recent research, dry beans and pulse crops contribute \$875 million

and \$405 million, respectively to North Dakota's economy. However, nationally, there are not many acres of these crops. This lack of acres reduces private industry interest to invest into breeding new seeds for these crops or conduct other research related to the production of these crops. Therefore, the programs developed by NDAES and Extension such as plant breeding programs and disease management are even more important to producers of specialty crops.

Into the future, I'm sure the NDAES and Extension will be important for me and my family. I can't wait to see my son involved in 4-H. I know that he will learn the fortitude to see projects all the way through to the end, gain valuable leadership skills, and learn the value of giving back to his community. Further, his first word was, "tractor", and he wants to farm when he grows up. I can't wait to help him learn how take soil samples and ID weeds, which are skills I learned from Extension and the NDAES faculty and staff. I already know some agronomic and crop scouting Extension programs for him to attend and extension resources that I will give him as he grows.

Thank you for the time this morning and I would be happy to answer any questions you have about SBARE, our priorities, or my involvement in agriculture.

Request: Please support the SBARE Priority list. Please support the Field Lab Facility request. Please support enhancing state employee compensation packages.

Testimony to North Dakota House Appropriations Committee
January 16, 2023
North Dakota State University
NDSU Agriculture Experiment Station and Research Extension
Centers

Good morning. My name is Donnie Buckmier and I am a small grains and row crop farmer from the Minnewaukan/Maddock area. I have been on the advisory board at the Carrington Research Center for 2 years. Even before I was a board member, I used the information from the research centers to help me make decisions for my farm. Some of those decisions include variety trials... what variety works best in what soil at what population. Where else would I find the information that tells me what works best in my soil, in my area. This also includes crop nutrition, nitrogen stabilizers, biologicals, farming practices (no till, conventional till, strip till) crop rotation, and soil salinity which I have worked extensively with the research centers trying to fix unproductive land. ... the list is lengthy of all the benefits provided to us from the research center. All this information is available to all farmers either thru the research center's annual publication or ag hub. I find the annual publication and Ag Hub website extremely beneficial resource. Every year I look forward to the book coming out so I can find out the results of the prior years research. In addition, I would also like to mention the benefits of additional funding for the SBAR priority #2. This priority is needed to make sure inflation does not affect the work of NDSU research of nitrogen stabilizers and biologicals which are done at the Oaks site.



HB 1020
House Appropriations Committee
Government Operations Division
Chairman David Monson
January 15, 2023

Chairman Monson and members of the Committee, my name is Amanda Remyse, and I am writing to you on behalf of the the North Dakota Motor Carriers Association (NDMCA), **in support** of HB 1020. The Upper Great Plains Transportation Institute is an important partner that provides valuable information regarding smart and efficient approaches to infrastructure that is critical to the trucking industry.

Reliable transportation networks expand markets by allowing North Dakota businesses to sell products across the state, to other states, and internationally. North Dakota has the nation’s most freight-dependent economy. Comprehensive approaches to infrastructure is important the economic success of North Dakota.

NDMCA thanks the Committee for your consideration and urges a **do pass** recommendation.

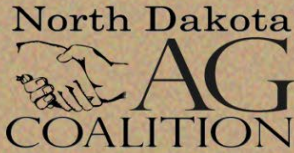


GREATER NORTH DAKOTA CHAMBER
HB 1020
House Appropriations Committee
Government Operations Division
Chairman David Monson
January 16, 2023

Mr. Chairman and members of the Committee, my name is Andrea Pfennig with the Greater North Dakota Chamber. GNDC is North Dakota's largest statewide business advocacy organization, with membership represented by small and large businesses, local chambers, and trade and industry associations across the state. We stand in **support** of House Bill 1020 as it relates to the Upper Great Plains Transportation Institute.

Transportation is critical to our members as a means of getting goods to market. Our members support resources to ensure the maintenance of existing and future infrastructure needs are met, using comprehensive planning when appropriate. Upper Great Plains Transportation Institute is an important partner that provides information regarding smart approaches to infrastructure.

We urge you to support the Upper Great Plains Transportation Institute in HB 1020.



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**Testimony of Brian Amundson
North Dakota Ag Coalition
HB 1020
January 16, 2023**

Chairman Monson and members of the committee, my name is Brian Amundson, and I am here today as the livestock representative on the executive committee of the North Dakota Ag Coalition. The Ag Coalition has provided a unified voice for North Dakota agricultural interests for more than 40 years. Today, we represent more than 45 statewide organizations and associations that represent specific commodities or have a direct interest in agriculture. Through the Ag Coalition, our members seek to enhance North Dakota's agriculture industry.

The Ag Coalition takes a position on a limited number of issues, brought to us by our members, that have significant impact on North Dakota's agriculture industry. The Ag Coalition supports the funding of the 2023-2025 SBARE priorities for the NDSU Extension and North Dakota Agricultural Experiment Station. Ag research and extension continue to be one of the top priorities for North Dakota's ag producers to assist in decisions leading to the production of the highest quality product that is most economically feasible.

The ND Ag Coalition is a very diverse group that addresses all areas of agriculture that depend on NDSU research and extension. Producers around the state rely on the work of NDSU research and extension to mitigate struggles and to problem solve issues facing rural North Dakota. We would like to stress the need that was addressed as a critical priority of SBARE and the Governor to build attractive compensation packages for the recruitment and retention of employees. We would also like to highlight the capital improvement request of the Field Lab Facility to address the modernization needs of several of the research facilities.

We appreciate your past support and urge your continued support of research and extension as these programs provide valuable information, education and tools for the state's producers. They have been, and will continue to be, the driving force in the future of North Dakota's number one industry, which contributes \$30.8 billion to North Dakota's economy annually. We encourage your support of HB 1020.



U.S. Durum Growers Association

PROMOTING THE PRODUCTION AND MARKETING OF DURUM AND SEMOLINA

P.O. Box 1091 • Bismarck, ND 58502 • (701) 214-3203
office@durumgrowers.com • www.durumgrowers.com

**Testimony of Steve Perdue
Policy Committee Chair
HB 1020
January 16, 2023**

Chairman Monson and members of the House Appropriations – Government Operations Division, my name is Steve Perdue, and I am a farmer from Ray and serve as the policy committee chair for the U.S. Durum Growers Association (USDGA). On behalf of USDGA, I would like to express support of HB 1020 as we recognize the significant importance of ag research, extension and the Northern Crops Institute to the future of agriculture in North Dakota.

USDGA has represented the nation's durum growers for more than 60 years. Today, we represent grower and industry members from 10 states, with North Dakota producing 50-60 percent of the nation's durum.

USDGA supports the efforts of the State Board of Agriculture Research and Education (SBARE) in prioritizing the research and education needs of the state's ag community. USDGA participated in the SBARE information gathering process, as did dozens of other ag organizations, and would urge the Division's favorable consideration of its priorities.

Specifically, USDGA cannot overstate the importance of the capital improvement request of the field lab facility. This facility would address the modernization needs of Waldron Hall, Widakas laboratory, the potato research laboratory, and the horticulture laboratory. The Field Lab Facility would house the durum breeding program as well as other programs that affect durum production. Updating these facilities is critical to the future of the durum industry in North Dakota. With North Dakota producing more than half of the nation's durum, NDSU's durum breeding program and research of plant disease and insect pests is top priority to the association. The durum breeding program is known around the nation, if not the world.

We also encourage your continued support of the Northern Crops Institute (NCI). NCI's collaborative efforts to support the promotion and market development of crops grown in a four-state region is more important than ever. NCI's educational and technical programs are essential to not only maintaining, but expanding, domestic and international markets for northern-grown crops, including durum.

Agriculture is and will continue to be the foundation of our state's economy. Even in times of low commodity prices, our families will continue to be here buying groceries, patronizing local businesses and contributing to the state's economy. We appreciate your past support and urge your continued support of ag research and extension.



**North Dakota Grain Growers Association
Testimony in Support of HB 1020
House Appropriations Committee
Government Operations Division
January 16, 2023**

Chairman Monson, members of the House Appropriations Government Operations Division, for the record my name is Ed Kessel. I own and operate a family farm in the Belfield area and I am also the President of the North Dakota Grain Growers Association. I appear before you today in both capacities in support of HB 1020.

North Dakota agriculture is the state's number one economic engine. North Dakota farmers and ranchers feed the nation and the world; to maintain and develop that status it is critical that the state of North Dakota provide the resources necessary for the NDSU Research and Extension efforts which allows North Dakota agriculture to enhance its agricultural mission. HB 1020 makes a good start in providing those resources and on that basis the North Dakota Grain Growers Association supports HB 1020.

Some specifics; at the December 7 Annual Meeting of the North Dakota Grain Growers Association the membership adopted a resolution in support of the proposed Ag Field Lab capital project initiative which also placed number one in the State Board of Research and Education's (SBARE) priority list of capital improvements. Essentially every facet of North Dakota agriculture goes through the present Ag Lab facilities; to maintain North Dakota agriculture's leadership in the world it is vital that researchers have the facilities necessary to carry out their mission. Additionally, it is essential that the present facilities are upgraded to maintain current staff as well as attract new staff as the need arises. Competition in the research field is stiff; giving NDSU research the necessary facility upgrades can help to ensure North Dakota maintains its agricultural leadership both now and in the future.

"You Raise; We Represent"

Phone: 701-282-9361 | Fax: 701-404-5187 | 1002 Main Ave W. #3 West Fargo, N.D. 58078

From a western North Dakota farmer perspective two SBARE initiatives stand out; one is the number one SBARE Extension Initiative which involves work on western crop production, weed management, and on-farm research. Western North Dakota is experiencing a drastic change in its cropping systems. With the advent of these new cropping systems comes the need to face the new challenges these new cropping systems present. These challenges include new plant diseases, fungicide-resistant pathogens, weed control as well as climate smart initiative all of which require the expertise necessary to address these issues. Additionally, providing the resources necessary to supplement NDSU research with on-farm research programs enhances ag research efforts in the state. The \$1.4 million Crop Systems Initiative is an investment in North Dakota agriculture's future.

The second SBARE initiative that stands out is the Plant Production and Protection Initiative which ranks number one in SBARE's Agriculture Experiment Station request list. Especially important in this request is the addition of an agronomist at the Dickinson Research and Extension Center who would help farmers with their cropping efforts. New crop rotations present new opportunities as well as new challenges especially in western North Dakota. Crop rotations, weather conditions, plant diseases, soil health all play a very important role in western North Dakota agriculture. You cannot address these issues of concern without the experts necessary to carry out vital research efforts that are specific to the western portions of the state. That is why the North Dakota Grain Growers Association supports the addition of an agronomist at the Dickinson REC who will be "boots on the ground" in area research efforts.

The bottom line is North Dakota agriculture needs the people necessary to help North Dakota agriculture move forward into the future. You cannot continue to lead the world in agriculture if you don't attract and maintain the experts necessary to carry out the extension and research activities in the state. It's quite simple; to maintain the best and to attract the best you have to pay people thus the serious need for North Dakota to provide the resources necessary in order to continue the state's support of its number one economic engine.

North Dakota agriculture contributes over \$30 billion annually to the state's economy. Ninety percent of the state's land is devoted to agriculture; one in five North Dakotans are employed in agriculture. HB 1020 represents the state's financial commitment to its number one industry. With a 24 percent return on investment in ag research HB 1020 is a good bet on North Dakota's future.



Contact:
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**Testimony of
Mark Watne
North Dakota Farmers Union
Before the
House Appropriations Committee – Government Operations Division
January 16, 2023**

Chairman Monson and members of the committee,

Thank you for the opportunity to testify on House Bill No. 1020. My name is Mark Watne. I serve as the president of North Dakota Farmers Union.

NDFU is a strong supporter of North Dakota State University's agricultural research and extension. NDSU's ag research and extension services are crucial to the success of family farmers and ranchers. Their work helps farmers and ranchers improve productivity, combat disease, mitigate risk, and implement new farming practices. NDSU Extension also provides leadership training for youth and adults, programs that support personal wellness and strong families, and nutrition and food safety guidance. Together, these services build stronger and healthier farming communities.

First and foremost, we urge this committee to provide NDSU with the resources necessary to build attractive compensation packages for employees. Hiring and retaining talented employees is critical to NDSU's ability to serve our state's farm and ranch families.

NDFU also supports increased funding for the Northern Crops Institute. I have the privilege of serving on NCI's Northern Crops Advisory Board. In that capacity, I have seen firsthand how NCI helps build new market opportunities for farmers and ranchers. NCI gives North Dakota producers a competitive edge in domestic and international markets.

NDFU encourages increased funding for the Upper Great Plains Transportation Institute. Farmers and ranchers rely on a strong network of rural roads and bridges to access the market. According to UGPTI's most recent estimates, North Dakota's rural roads and bridges require \$10.5 billion of investment over the next 20 years. UGPTI's work not only helps assess those needs; it helps our state adopt innovative and cost-effective approaches to improving our transportation system.

Finally, funding the new Ag Field Lab Facility is a top priority for our members this legislative session. For decades, NDSU's research has helped farmers become more productive, more efficient, and more resilient. However, NDSU's current facilities are badly outdated. Like many



of you, I toured the current field facilities earlier this year. There is no question that a new facility is needed, and it is needed now.

Investing in the Ag Field Lab Facility will deliver a significant return on investment. A new facility will help NDSU attract and retain top quality scientists. It will make NDSU's research more efficient and more effective. The Ag Field Lab Facility will help NDSU continue its tradition of providing world-class research for future generations of North Dakota farmers.

Thank you for considering my testimony. I will stand for any questions.



FMWF Chamber Letter of Support for HB 1020

January 16th, 2023

Chair Monson and members of the House Appropriations - Government Operations Division:

For the record, my name is Katherine Grindberg and I have the pleasure of serving as the Executive Vice President for the Fargo Moorhead West Fargo (FMWF) Chamber of Commerce. The Chamber's mission is to be a catalyst for economic growth and prosperity for businesses, members, and the greater community. On behalf of our over 1,900 members, I respectfully offer testimony in support of House Bill 1020, specifically as it relates to the North Dakota State University (NDSU) Extension Services and North Dakota Agricultural Experiment Station.

Agriculture is one of the foundational industries of North Dakota and much of the state's success can be attributed to the agriculture industry. As our state continues to lead the nation in multiple different commodities, it generates billions of dollars in gross business volume and accounts for thousands of jobs throughout the state. In order to compete on a global scale and remain an international leader in agriculture, our state must continue its strong support for NDSU Agriculture and Extension.

Programs and initiatives, like NDSU Extension's Cropping Systems Initiative and North Dakota Agricultural Experiment Station's Plant Production and Protection Initiative, are pivotal for our state's continued success and improve the lives of all North Dakotans through innovative research, high-quality information sharing, and science based education. In addition to these programs and initiatives, investments in state-of-the-art facilities, such as the Field Lab Facility, are key to furthering modernized agricultural research in our state and allowing researchers to address the critical needs of the agriculture industry.

In closing, I would like to share The FMWF Chamber of Commerce's support for the continued investments into programs, initiatives, and capital projects, like those mentioned above, to advance our state's agriculture industry and the incredible economic and community impact that accompanies it.

On behalf of our members, I would like to thank the committee for their time and consideration this morning.

Respectfully,

Katherine Grindberg
Executive Vice President
FMWF Chamber of Commerce
kgrindberg@fmwfcchamber.com



Testimony of Brian Leier

Vice President, North Dakota Corn Growers Association

In support of HB 1020

January 16, 2023

Chair Monson and members of the House Appropriations Government Operations Committee,

Thank you for the opportunity for the North Dakota Corn Growers Association (NDCGA) to share our support of House Bill 1020 and funding for the North Dakota Agricultural Experiment Station.

For the record, my name is Brian Leier. I farm near Linton, ND and I am the Vice President of the North Dakota Corn Growers Association, which is the advocacy arm of North Dakota corn at the grass roots level and serve as the voice of the more than 13,000 corn growers across the state.

Last month, Governor Burgum joined NDSU at the Capitol to unveil a first of its kind comprehensive study of the economic contribution of agriculture in the state. For the year 2020, agriculture contributed nearly \$31 billion to the economy and more than 110,000 jobs and represented nearly 25 percent of the state economy.

The Experiment Station's vital work on plant protection and production, and conducting crop disease research, helps our state's agriculture producers increase their yields exponentially. If not for the funded efforts in these programs, this work would otherwise fall short and certain to adversely impact our economic output on the farm and on the state.

Similarly, the Station's initiative-cropping system, in which extension specialists work on western crop production and weed management, on farm research aims to help expand agriculture's footprint in North Dakota.

Capital improvement investment in the field lab is absolutely critical for facilities needed for agronomic research. We need an effective space for breeding, plant pathology, soil science, and development of high value crops. Corn growers across North Dakota have benefited from weed science, plant pathology and soil science research.

NDCGA's mission statement is "growing a healthy, profitable business climate for northern corn", and the North Dakota Agricultural Experiment Station is a valuable tool to help producers meet that mission. Thank you for your continued support of North Dakota agriculture and NDSU research. We urge your support of HB 1020. Thank you for your time today and I stand for any questions you may have.

House Bill 1020 Testimony

January 16, 2023

NDSU Extension

Greg Lardy, Director

Good morning Chairman Monson and members of the Government Operations Division of the House Appropriations Committee.

My name is Greg Lardy, and I have the privilege of serving as the director of NDSU Extension. I am a native of Sentinel Butte, North Dakota where I grew up on a small grain farm and cattle ranch. I've had the privilege of serving the state of North Dakota and NDSU for 25 years.

As you know, NDSU Extension plays a direct and vital role in the lives of North Dakotans, and it is one of the agencies that help shape the future of North Dakota through our programming efforts in agriculture, community wellness, and youth development. Thank you for your support of our base budget and the SBARE initiatives in 2021. The mission of NDSU Extension is to empower North Dakotans to improve their lives and communities through science-based education. This is accomplished, in part, through a local presence in each of the state's 53 counties. We partner with local county governments to staff a local office in each of these locations and have specialists located at our main campus in Fargo as well as each of our seven research Extension centers. Through this network of trusted community members, NDSU Extension reaches people where they live to deliver tailored, innovative and accessible educational programs, resources and partnerships. This network provides the educational resources necessary to help our citizens make decisions that are informed by science. NDSU Extension

plays a role in enhancing our state's economy by delivering information and educational programs to communities large and small across the state, and we do so by delivering that information and programming in a variety of ways including webinars, in-person programming, web-based resources, and by other delivery methods. Our programming is vast, and we place a special emphasis on strengthening agriculture and developing the potential of youth, adults, and communities.

Today, you will get a chance to hear from people who benefit firsthand from our programming. They will describe their experiences with our programs, and how the education provided by NDSU Extension addresses pressing problems in rural and urban North Dakota. This leads to a brighter future for all North Dakotans.

The programming conducted by NDSU Extension delivers a return on investment by working upstream from the major challenges facing agriculture and our communities. Our programs lead to greater levels of profitability and sustainability for farmers and ranchers; reduced healthcare costs related to long-term disease conditions and poor nutrition; and improved lives through leadership development, youth development, and increased civic engagement.

The mission of NDSU Extension once again is to empower North Dakotans to improve their lives and communities through science-based education. Extension is an important component of agriculture's \$30.8 billion economic contribution to North Dakota.

As Chairwoman Lovas mentioned, SBARE has listened carefully to the needs of the state's citizens through a series of listening sessions and dialog regarding the programmatic priorities for NDSU Extension.

SBARE had lengthy discussions about state employee compensation, and how that is vital to recruiting and retaining top talent. An adequate

compensation package will help our agency recruit and retain the highly skilled educational staff that are needed to deliver highly effective and impactful educational programs to our state's citizens. The competition for labor, skills, and talents is fierce. We need your assistance in ensuring we have a compensation package that helps attract personnel to our career opportunities, and one that helps retain the top talent that work tirelessly in our organization.

SBARE's responsibilities in Century Code include setting the programmatic and budgetary priorities for the agency. They have identified several critical needs including:

Cropping Systems Initiative

1. North Dakota is a dominant force in agriculture with a \$30.8 billion economic impact annually and leading the United States in the production of multiple commodities. To help maximize the financial impact that NDSU Extension has on the state, additional expertise and educational programs are needed in response to the rapid expansion of soybean and corn acreage, new and emerging plant diseases, and fungicide-resistant pathogens that limit crop yields, controlling the spread of noxious and invasive weeds, and advancing cropping systems that sequester soil carbon, increase plant growth, retain water, and build soil health.

Soybean acreage continues to increase in North Dakota. Between 2015 and 2019, an estimated 1.1M bushels, worth well over \$10 million, was lost to soybean diseases, and additional diseases and pathogen variants.

Herbicide resistant weeds and invasive weeds continue to be a major problem for farmers. Dealing with weeds such as Palmer Amaranth now will save the state money in the long term.

Interest is growing amongst farmers and ranchers in carbon contracts. Additional expertise to help guide them through this process would be beneficial.

On-farm research programs serve as a bridge between the field-scale problems and novel plot-sized concepts and/or research-based solutions. On-farm research is an effective way to validate research advances while helping farmers envision the value those advances bring to their farm.

Request: Five FTEs total. Western crop production specialist, soybean pathologist, weed specialist, carbon credit specialist, on-farm research coordinator. \$400,000 operating support that includes \$200,000 operating for on-farm research. Total: \$1,400,000

2. Livestock Development Initiative

The 67th legislative assembly partially funded this initiative. Thank you for your support of this work. Two positions were funded in 2021 including a livestock development specialist located in Fargo and a forages specialist located at the NCREC. More help is needed to further develop livestock in the state. Livestock production in North Dakota accounts for approximately \$1.5 billion in gross revenue annually, and there is ample opportunity for growth. Growing our livestock sector has been identified as a top priority to utilize and add value to North Dakota agricultural products.

Request: Three FTEs total. Veterinary epidemiologist, swine specialist, off-campus livestock development specialist. \$120,000 operating support. Total: \$770,000

3. Farm and Ranch Safety and Health Initiative

The 67th legislative assembly also partially funded this initiative. Thank you for supporting one position in 2021 – a farm and ranch safety

coordinator. This coordinator has developed multiple partnerships and provides educational programs to both youth and adults. The health and safety of those involved in agriculture is of the utmost importance. A leading cause of agriculture accidents is stress and fatigue. When stress, adversity or trauma occur, having the ability to adapt to difficult situations allows farmers, ranchers and their families to continue to move forward.

Request: \$250,000 operating support for farm and ranch safety and health resources. Total: \$250,000

4. Program Support for 4-H Initiative

North Dakota is facing a workforce crisis, with a particularly high demand for individuals with strong science, technology, engineering, math, and entrepreneurial skills. These technical skills, combined with teamwork, decision-making, critical thinking, and communication can help build a strong and effective workforce for the state. To build this workforce, expanding and developing quality youth development programs and experiences, such as 4-H, is essential.

Request: \$320,000 One FTE total. 4-H entrepreneurship specialist. \$120,000 operating funds to include support for camping, clubs and after-school programs. Total: \$320,000

5. Extension and State Soil Conservation Committee Operating Support Initiative

Operating support allows Extension specialist and agents to develop innovative timely programming, reach audiences as the need arises, or develop new methods to connect with local communities, and leverage resources needed to address larger issues facing our citizens. Operating support for the State Soil Conservation Committee provides an increase

in direct assistance funding to be distributed to local Soil Conservation Districts for technical assistance and conservation planning support.

Request: \$300,000 in operating support for Extension and \$300,000 in operating support for the SSCC. Total: \$600,000

6. Increased Food Security Initiative

Agriculture continues to be a cornerstone of North Dakota's economy in both rural and urban communities. With the increased emphasis on agricultural processing capacity within North Dakota, there is a need for continued education on the food supply chain. Support for food processing efforts and activities, particularly for value-added food products, can enhance availability of nutrient dense foods.

Request: \$200,000 One FTE total. Urban ag/value-added food technologies specialist. \$200,000 in operating support to include two county-based horticulture agents in partnership with counties. Total: \$400,000

On Page 63 in the budget book you will find a financial schedule that details our base budget. On Page 78 you will find Governor Burgum's executive budget recommendation as it relates to the SBARE priorities. At this time, I will walk through what he has included in his budget recommendation for our agency.

A few NDSU Extension Impacts for 2022 can be found on the infographic in your book (Pages 7-8). We are proud of the facts that:

- We help families mitigate stress, injuries and fatalities so farms and ranches can continue successful production, which increases food security across the state.

- NDSU Extension certified 26 youth ages 14-15 in operating tractors and ATVs, so they could enter the agricultural workforce and use their safety skills to help prevent youth injuries and fatalities in the workplace.
- We develop field recommendations that maximize production and protection of crops that benefit North Dakota farmers and their families, rural communities and our environment.
 - By using NDSU's recommendations for wheat/durum, sunflower, barley and sugarbeets, North Dakota farmers can reduce nitrogen use by 400 million pounds and increase crop profitability by more than \$40 million.
- We invest in growing tomorrow's leaders by cultivating engaging experiences where young people receive high quality, hands-on opportunities to foster essential life skills.
 - More than 390 youth attended the North Dakota 4-H camps including Trades Camp, Cultural Cooking Camp and Forensic Science Camp. Regional North Dakota 4-H Volunteer Project Trainings reach over 175 volunteers annually.
 - Through an increased reach across underserved communities, more than 143 Indigenous youth in Sioux County participated in learning experiences and explored careers by building hydroponic gardens, flying drones, learning coding and participating in activities to grow and develop coping skills.
- We educate Master Gardeners, whose volunteer efforts improve food security, beautify our communities and protect our environment.
 - Since 2015, Master Gardeners have grown, gleaned or collected 138,183 pounds of fresh produce to support local

food pantries. This has provided 552,732 servings of fruits and vegetables to North Dakotans and their families.

- We help ranchers enhance livestock health and performance, and increase the economic sustainability of livestock production.
 - In 2022, NDSU Extension agents conducted 287 water screenings and identified 70 with toxicity levels high enough to result in extreme illness or death of cattle.
 - Market-based research provided by NDSU Extension to the USDA Farm Service Agency resulted in a 170% increase of the Livestock Indemnity Program (LIP) for calves up to 250 pounds. To date, North Dakota ranchers have received \$922,810 from the Livestock Indemnity Program.
- We help North Dakotans make changes to lifestyle, including diet and amount of physical activity, to prevent chronic disease. By delaying or preventing the development of chronic diseases, healthcare costs are reduced for the individual and state-funded insurance programs.
- We train current and emerging leaders to increase civic engagement in communities and organizations across North Dakota. Successful community involvement and volunteerism hinges on the development of leadership skills and mentoring, and increases the effectiveness of public leaders.

Thank you for your support of our agency. At this time, I would be happy to answer any questions you may have.

Testimony to North Dakota House Appropriations Committee: HB 1020
North Dakota State University
North Central Research Extension Center, Minot, ND
January 2023

Mr. Chairman and Members of the Committee: Thank you for allowing me speak in front of you today.

For the record, my name is Gregory Marshall. I produce wheat, soybeans, and sunflowers on a farm just west of Minot. I also serve as an Advisory member to the North Central Research Extension Center (NCREC) of Minot.

Today, I want to stress to you the importance of the North Dakota agriculture research centers and the staff that keeps them operational. I began my farming career like many others, by sitting on my dad's lap and steering the pickup, truck, or tractor. As I got more involved in the operation, I learned to refer to North Dakota State University (NDSU) Extension Service publications when choosing seed varieties, fertilizer recommendations, weed control recommendations, and numerous other items. They were and are my go to publications for finding the answers for production agriculture. I've seen their research responses when encountering new weeds and chemical resistance weeds. I've seen their responses to insect problems with studies to find the economic threshold levels and control methods. They research crop disease problems by improving and recommending varieties with better resistance and yields.

In the 1930's, spring wheat yields were mostly in the single digits. It took until 1962 before average spring wheat yields were consistently above 20 bushels per acre and in the early 80's we got to 30+ bushels per acre. The 40+ bushel per acre range came around 2009 and continued to rise to last years surveyed average of 50 bushels per acre. Those increases would not have happened without the support from the State of North Dakota and the funds made available for field staff, research programs, breeding programs, and seed increase programs.

Spring wheat is only one of many crops that are prevalent in the state of North Dakota. North Dakota raises a wide variety of crops and livestock and ranks at the top or near the top in the production of many of those crops. Those crops include all dry edible beans, canola, flaxseed, honey, dry edible peas, Durum wheat, spring wheat, barley, lentils, sunflowers, sugar beets, and potatoes. Those research programs undertaken by NDSU and the Extension Centers touches each of those crops. In addition to the crops, there are livestock research programs that bring a better product to the consumer's table and add more value to the producer. With the diversity of crops and livestock, it takes a great deal of hours and research to have the answers for the state's agriculture producers.

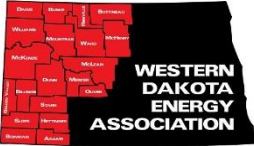
I and others have a real concern that we are losing qualified staff when we have to compete with private sector wages. It doesn't matter if you have the funds available for a research project if you don't have

the staff to do the work. Please continue to support the programs with funding that will allow the hiring and retention of qualified staff.

When Covid hit, we saw how supply chain disruptions can limit the consumer's choices. This last year, at the local Walmart and the local grocery stores, I've seen limited supplies in the meat department, low milk inventories, and food items that seem to be in limited supply. I hope we never see those types of food choices due to the lack of support for research programs. I want to thank you for your past support and ask that you please continue supporting North Dakota agriculture going forward.

Thank you.

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WESTERN DAKOTA ENERGY ASSOCIATION

January 16, 2023

EXECUTIVE COMMITTEE

Trudy Ruland
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Mountrail County

Supt. Leslie Bieber
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City of Stanley

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Nick Klemisch
Garrison PSD
Coal Conversion
Counties

David Montgomery
Williams County

Craig Pelton
Dunn County

John Phillips
Coal Conversion
Counties

Testimony of:

Geoff Simon, Lobbyist #144

in support of HB 1020 – UGPTI and NDAWN

Government Operations Division – House Appropriations Committee

Chairman Monson and Committee members:

On behalf of the city, county and school district members of the Western Dakota Energy Association (WDEA), we wish to express our strong support for the appropriations requests of the Upper Great Plains Transportation Institute (UGPTI) and the North Dakota Agricultural Weather Network (NDAWN) found in House Bill 1020.

WDEA has a longstanding working relationship with UGPTI's Local Technical Assistance Program (LTAP), and the training and education it provides to our members. Counties in western North Dakota receive tremendous benefit from the Geographic Roadway Inventory Tool, as well as the information found in UGPTI's local road and bridge needs study. UGPTI and NDAWN have also been active partners in WDEA's development of the Wise Roads project (www.wiseroadsnd.com), which is aimed at minimizing weather-related disruptions to heavy oilfield truck traffic.

LTAP staff have worked closely with county road superintendents to maximize the value of data collected through the Wise Roads network of weather stations. We're engaged with LTAP in a research project which involves placing moisture and temperature sensors in gravel roads to better determine when frost or load restrictions need to be placed on roads and when those restrictions can be lifted. NDAWN has provided the technical expertise to help WDEA launch the Wise Roads project, and continues to work closely with us to maximize the value of the huge volume of weather data we collect. To date, with NDAWN's assistance, the project has installed 48 additional weather stations in western North Dakota.

Both UGPTI and NDAWN are delivering valuable services to our agriculture and energy sectors, and are also engaged in cutting-edge research, aimed at supporting the state's major industries' through innovation and development of better management tools to improve productivity and move commerce more efficiently. UGPTI's addition of a western liaison position, in cooperation with the ND Department of Transportation, has brought additional benefits to county, township and tribal governments in western North Dakota.

WDEA urges the Government Operations Division and the full House Appropriations Committee to approve the budgetary items of UGPTI and NDAWN requested in HB 1020.

As always, we appreciate the opportunity to offer testimony and would be happy to provide additional details upon request.

Thank you for your consideration.

Western Dakota Energy Association
1661 Capitol Way, Bismarck ND 58501
www.ndenergy.org • 701-527-1832

Good Morning Chairman Monson and committee members.

I'm Curt Stanley a member of the HREC Advisory Council and a representative of the NDLWPA.

I'm here to say thank you for the funding of the HREC project that came out of the special session.

The HREC was established in 1909 as a dairy research station

At the close of WWII (1944) the station was in such a state of despair that it was said that it was only suitable for sheep.

Between then and now significant sheep research has been conducted at the station including

- Original confinement barn testing

- Nutrition research

- Out of season lambing protocols

- The largest/best shearing and wool classing school in the US

Thanks to the Special Session for funding the "Smart Sheep Feedlot and Livestock Lab which will propel the HREC to the most technologically advanced sheep research facility in the US.

Another hat I wear occasionally is the American Sheep Industry Assoc. director for ND. I can attest that there is national interest in this facility. Currently ~60% of the

lamb consumed in the US is imported. On a national level there is a real interest and drive to increase the efficiency in the US sheep industry in order to help correct that imbalance.

This funded project has the potential for the HREC to be an important part of the advancement of the sheep industry in the US.

In order to fully utilize and capitalize on this facility, the NDLWPA is fully in support of the SBARE priorities regarding attracting the best talent to further these initiatives and retain that talent in ND.

To close – Thank you to the ND legislature for funding the project we are currently undertaking and request your support in the recruitment and retention of the high quality talent



Advocating for North Dakota's Integrated Infrastructure Network

Testimony in SUPPORT of House Bill 1020 – Upper Great Plains Transportation Institute

Chairman Munson and Members of the Committee:

I'm Scott Meske, representing the North Dakota Transportation Coalition and offer our support for continued funding of the Upper Great Plains Transportation Institute to continue the valuable work they do on behalf of the integrated transportation network across North Dakota.

The North Dakota Transportation Coalition consists of the largest twenty statewide and regional trade associations, agriculture groups, political subdivisions and business entities in the State – all of whom have a vested interest in moving goods, services and people as efficiently and safely as possible. Our purpose is to advance and enhance North Dakota's transportation infrastructure through advocacy and education efforts resulting in sustainable funding and sound public policy solutions.

The Upper Great Plains Transportation Institute plays a key role in these efforts on several levels. Over the next 20 years, the Institute estimates more than \$24 billion will be required to maintain our current system of roads and bridges, with an estimated \$10 billion in state revenues realized in the same timeframe. Working with political subdivisions and industry stakeholders, the Institute can harvest key data points that help guide those funds where they are needed most. They are truly a vital component to the overall transportation infrastructure network, conducting crucial research services to the State DOT and stakeholders, like the North Dakota Transportation Coalition Members, who rely on our road and bridge network to keep our economy thriving.

The NDTC urges this Committee and the full Appropriations Committee to continue their support of the Upper Great Plains Transportation Institute by approving their budget request in House Bill 1020.

Thank you

North Dakota Transportation Coalition Legislative Priorities



Primary Priorities

Funding:



Prioritize the political subdivision infrastructure fund (OPD) bucket over the Strategic Investment and Improvement Fund bucket in the oil and gas tax distribution formula, to ensure long-term and consistent funding from this revenue source.

Support utilizing a portion of the Legacy Fund earnings for transportation infrastructure in one-time projects.



Support the Infrastructure Revolving Loan Fund.

Generally, support appropriating general fund dollars to match federal funds when needed.



Ensure NDDOT has the administrative capacity to apply for and manage federal funds, including discretionary funds contained within the Infrastructure Investment and Jobs Act.

Regulatory Environment:



Where appropriate, ease burdensome regulations to ensure fair and balanced oversight of overweight fees and permitting.

Secondary Priorities



Continued support for UGPTI.

Support the utilization of Motor Vehicle Excise Tax revenues for transportation infrastructure projects.



North Dakota State University
Upper Great Plains Transportation Institute
Agency 627
Denver Tolliver, Director

2023-2025 Biennial Budget Request

Presented to:
The House Appropriations Committee
Government Operations Division

January 16, 2023

*Upper Great Plains Transportation Institute
Programs, Centers, and Focus Areas*

- Advanced Traffic Analysis
 - ND Local Technical Assistance
 - Western ND Transportation Liaison
 - Small Urban & Rural Mobility
 - Road & Bridge Needs Assessment
 - Mountain-Plains Consortium
 - Advanced Technologies
 - DOT Support Center
 - Tribal Technical Assistance
 - Commercial Vehicle Safety
 - Transportation Safety & Security
 - Agricultural Freight
 - Transportation Learning Network
 - Grade Crossing Safety
-

Upper Great Plains Transportation Institute Advisory Council

- Aeronautics Commission
 - Associated General Contractors of ND
 - Association of Counties
 - Greater ND Chamber
 - Corn Council
 - Department of Agriculture
 - Department of Commerce
 - Department of Transportation
 - Farmers Union
 - Grain Dealers Association
 - Grain Growers Association
 - League of Cities
 - Lignite Energy Council
 - Motor Carriers Association
 - Public Service Commission
 - Wheat Commission
 - Member of Dakota Transit Association
 - Representative of manufacturing sector
 - Representative of railway industry
-

Background Agency Information

<i>Legislative Directives and Purpose</i> <i>N.D.C.C</i> <i>54-53-03</i>	The Upper Great Plains Transportation Institute’s purpose is to “conduct and supervise research in the field of transportation and logistics in order to facilitate acquisition of a wider knowledge and understanding of marketing factors associated with the geographical location of the state of North Dakota and the upper great plains in the field of transportation and their influence on the socioeconomic systems of the state, region, and country” UGPTI’s research areas “must include the study of commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services (N.D.C.C 54-53-03).”
<i>Advisory Council</i> <i>N.D.C.C</i> <i>54-53-02</i>	The Legislature established a transportation council to serve in an advisory capacity and “consult with the Institute in matters of policy affecting the administration of this chapter and in the development of transportation in the state of North Dakota.” The council shall elect its own chairman and the Director of the Institute shall serve as the executive secretary of the council.
<i>Administration</i> <i>N.D.C.C</i> <i>54-53-01</i>	The Institute must be administered by and in conjunction with the North Dakota State University of Agriculture and Applied Science. The president and administration of the North Dakota State University are responsible for the selection of personnel for and the administration of the Institute.

Major Accomplishments in Current Biennium

Biennial Road & Bridge Needs Assessment With its general fund appropriation, UGPTI conducted its biennial analysis of county, township, and tribal road investment needs in the state. The study included 71,808 miles of road, including 5,843 miles of paved county road and 56,656 miles of gravel road. UGPTI staff and student employees counted and classified vehicles at 424 locations on county, township, and tribal roads throughout the state, recording the total number of vehicles per day at each site, as well as the number of trucks, by size category. When combined with NDDOT traffic counts on county roads, UGPTI’s traffic data provide a comprehensive picture of traffic around the state. In addition to the traffic counts, UGPTI analyzed the surface conditions of more than 2,750 miles of paved county road, collecting ride quality data in a cost-effective manner using sensors and special smart phones apps to measure road roughness and video images to assess road conditions (e.g., cracking) and develop composite ride scores. A survey was administered to each county to determine blading and gaveling practices, the sources and costs of gravel, and other cost factors needed for the unpaved portion of the road analysis. All 53 counties responded to the survey. The current conditions of 2,336 bridges on county roads were assessed during the biennium. The results are summarized below.

County, Township, & Tribal Road & Bridge Needs (Millions)

Time Period	Unpaved Roads	Paved Roads	Bridges	All
Twenty Years	\$6,545.66	\$3,248.80	\$715.57	\$10,510.01
Current Biennium	\$660.35	\$557.10	\$139.42	\$1,356.87
Avg. Biennial	\$654.57	\$324.88	\$71.56	\$1,051.00

<i>Road & Bridge Asset Management</i>	With its general fund appropriation, UGPTI is improving the Geographic Roadway Inventory Tool (GRIT), which stores and displays information on road surface type, current condition, shoulder width, subgrade strength, and other design features, as well as traffic, construction history, and improvement plans. A pavement condition forecasting procedure is included in GRIT that allows counties to project conditions of roads for up to 35 years. Recent enhancements include the incorporation of emergency-related projects such as flooding (so the public can see where roads are closed), a load restriction web-map linked to the NDDOT’s Traveler Information Map that allows truckers to view state and local road restrictions on one web-based map, and an inventory and map of bridges and minor structures.
<i>Tribal Technical Assistance Program Center</i>	UGPTI was selected by Federal Highway Administration as the home of the Northern Region TTAP Center, with funding of \$300,000 per year with potential options for additional funding. TTAP Vision: to enhance the quality of life in Tribal communities by building capacity for Tribes to administer and manage their transportation programs and systems. The mission is to “serve as a go-to local resource for Tribal transportation training, technical assistance, and technology transfer needs and opportunities. The awarding of this center is a recognition of UGPTI’s past and on-going efforts and a great tool for leveraging partnerships and resources.
<i>Productivity and Results</i>	Thus far this biennium, UGPTI and the Mountain-Plains Consortium led by UGPTI have published 57 peer-reviewed transportation research reports, which are freely available from our website. In addition, UGPTI has offered 680 training, e-learning, and outreach events, in which there were 20, 241 participants. These numbers do not include all of UGPTI’s e-learning accomplishments or expected events and participants during the remaining six months of the biennium. These are only the results as of December 31, 2022.

One-Time Funding

<i>Funding Amount and Source</i>	The Legislature provided UGPTI with \$225,000 in one-time funding from the strategic investment and improvements fund to be matched by at least that amount in federal funds. The funds have been used as match for \$336,000 in Federal grant funds (which require a dollar-for-dollar match). The federal funding extends through the end of Federal FY 2023. Two on-going project reports will be completed by then.
<i>Remote Sensing using Drones and AI</i>	These research results will inform stakeholders about appropriate types of drone and sensor payloads, as a function of the types of transportation assets being inspected. The research will describe the downstream data processing and model building required using artificial intelligence. The findings will support broad initiatives within North Dakota to expand remote sensing applications that can utilize the statewide deployment of a beyond visual line of sight (BVLOS) network.
<i>Autonomous Aircraft Logistics</i>	Technological advancements in energy storage, capacity, computing, communications, and lightweight structural materials promise to reduce the cost, size, noise, and risks of drone vehicle operations, making them potentially competitive with trucks for certain movements. This research will develop a better understanding of the opportunities that may exist for companies in the regions and challenges to deployment, including how drone deliveries fit into the overall logistics process.

Audits A team from the Office of the State Auditor audited UGPTI’s financial transactions and expenditures for the biennium that ended June 30, 2021. The audit did not identify any areas of concern. This was the only audit of UGPTI during the biennium.

UGPTI Funding Sources

Special Funds UGPTI does not operate facilities or assess fees that generate revenue on a continuous basis. Rather, UGPTI’s special funds appropriation request represents the authority to collect grants and contracts from state and local agencies and private industries. Most of UGPTI’s special funds originate from the North Dakota Department of Transportation under a strategic agency partnership that has benefited North Dakota for the last four decades. The ND Wheat Commission and several metropolitan planning organizations (MPOs) are the other regular providers of grant funding in addition to the NDDOT. There is uncertainty in the levels of these grants and contracts that will be received during any biennium.

Federal Funds The federal fund request represents a ceiling for UGPTI’s federal grant collections. It is the agency’s best projection of the authority needed to procure all grants that may become available during the biennium. The vast majority originates from the U.S. Department of Transportation (U.S. DOT), including grants from the Office of the Secretary, Federal Highway Administration, Federal Transit Administration, Federal Motor Carrier Safety Administration, and the National Highway Traffic and Safety Administration. Some grants (such as the University Transportation Center grant) are provided directly to UGPTI by federal agencies. In other cases, the funds are “federal source funds” provided by third parties through the federal procurement process. Although federal funds are important to UGPTI’s budget, they have pre-determined uses. Ultimately, UGPTI has limited discretion in determining which critical issues are researched with federal funds. Federal research funds (although very important) are not a substitute for state research dollars.

General Funds Although state general funds comprise a minor portion of UGPTI’s overall budget, they are essential to the agency’s success and sustainability. State general funds are needed to match federal grants and provide continuity in times of delay or disruption in federal funding. Many of UGPTI’s direct grants (such as the University Transportation Centers grant) require a 100% match of non-federal source funds. UGPTI’s general funds are the only dependable source of match for these funds. Moreover, general funds are the only hard dollars in UGPTI’s budget. Federal and special funds are provided at the discretion of intermediate agencies and third parties and are subject to the budget limits placed on these agencies.

2023-25 Executive Recommendation

<i>Funding Source</i>	2021-23 Legislative Base	2023-25 Requested Budget	2023-25 Recommendation Compared to Legislative Base		2023-25 Executive Recommendation
			Increase (Decrease)	Percent Change	
General	\$4,485,607	\$5,326,341	\$737,704	16.4%	\$5,223,311
Federal	\$12,309,427	\$12,309,427	\$405,968	3.3%	\$12,715,395
Special	\$6,732,923	\$6,810,779	\$357,805	5.3%	\$7,090,728
Total Funding	\$23,527,957	\$24,446,547	\$1,501,477	6.4%	\$25,029,434

Notes:

Increase in general funds = \$432,600 in one-time funding for TDIC + \$305,104 of salary package/health care increases funded from general funds.

Increase in federal funds is for the portion of salary package/health care increase funded from federal funds.

Increase in special funds is mostly for the portion of salary package/health care increase funded from special funds.

Transportation Data Intelligence Center

Request This request, which was included in the Executive Recommendation and approved by the North Dakota Board of Higher Education and UGPTI’s Advisory Council, is for \$432,600 of one-time funding to repurpose and equip a room in the Quentin Burdick Building at North Dakota State University to receive, process, archive, and analyze data from field sensors, vehicles, and many other sources. The Transportation Data Intelligence Center will enable UGPTI to perform advanced data analytics, develop artificial intelligence solutions and tools, contribute timely transportation information to travelers and service providers, and train students in artificial intelligence and automation.

Benefits to the State This one-time investment will support the deployment of advanced transportation technologies that enable safe and efficient travel, as well as facilitate future research which will benefit the State for years to come. The programs made possible by this one-time investment will enable data-driven transportation decision-making through the availability of timely information and online tools and it will enhance UGPTI’s capability to compete for federal grants in the field of advanced transportation technologies, partner with private entities, and support the training of future workers in artificial intelligence and advanced transportation technologies

Functions and Roles The Transportation Data Intelligence Center will receive data from a variety of field sensors (e.g., roadway environmental sensors, traffic counters, vehicles classification sites, speed, and weigh-in-motion sensors), cameras, UAVs, and (ultimately) vehicles; process, temporarily store, and archive the data; mine and analyze the data using machine and deep learning algorithms written specifically for the tasks; provide near real-time data feeds of road and traffic conditions; and consolidate and analyze the field data needed for roadway and bridge asset management. The Center will support State initiatives such as the Transportation Management Center, as well as the deployment of advanced technologies (such as connected vehicle technologies).

Details Specifically, the funding will be used to repurpose and equip a room in the Quentin Burdick Building, including remodeling expenses, computer workstations for staff and students, monitors to display field and traffic data, mini supercomputer to process large incoming data streams and run computationally intensive data mining and machine learning algorithms, servers to store and archive large data streams, and supporting telecom equipment.

Freight Transportation & Logistics Biennial Surveys and Reports

Background and Needs North Dakota's economy is dependent on freight transportation and logistics services. Transportation and supply-chain bottlenecks and breakdowns have major impacts on producers and industries. The Legislature and State agencies need comprehensive and current information to monitor rapidly changing industry activity levels and logistics patterns and identify trends, issues, and needs in a proactive manner. UGPTI currently analyzes and publishes shipment data from elevators to markets. However, this report covers only a portion of the supply chain and does not include information on farm-to-elevator, farm-to-processing plant, and elevator-to-processing plant movements or manufactured goods.

Benefits to the State If this request is funded, UGPTI will conduct surveys and publish reports each biennium about the transportation patterns and needs of agricultural processors, shipments from farms to elevators, inbound and outbound shipments to and from manufacturing plants by mode and shipment type (as well as assessments of the quality of transportation services provided), and information on commercial trucking in North Dakota, including the sizes of firms, the commodities hauled, the types of equipment used, equipment ages and utilization rates, fuel consumption rates, and other information. In addition to this detailed information, the reports will include assessments of the transportation challenges and needs facing each sector. The reports will provide the Departments of Transportation, Agriculture, and Commerce (and other agencies) with critical planning information.

Details of Request This request for \$408,134 in base funding has been approved by the North Dakota Board of Higher Education and UGPTI's Advisory Council. However, this funding is not included in the Executive Recommendation presented earlier. The budget request reflects two FTEs. However, this request will not increase UGPTI's total FTE level, as two positions which are currently open will be redefined to provide the two new positions identified in the budget.

UGPTI's Role and Statutory Responsibility UGPTI is the ideal agency for this effort, as UGPTI can: (1) offer individuals and companies confidentiality of the raw data they provide, (2) combine the data collected by the new surveys with existing data to provide a comprehensive picture of freight transportation and logistics in the State, and (3) serve State agencies and the Legislature by providing them with tailored reports and information each biennium. The request will allow UGPTI to better fulfil its statutory responsibilities to study "commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services."

**Upper Great Plains Transportation Institute's General Fund Budget Request
2023-25 Biennium**

Description	Funding Category		Total
	Base Level	One Time	
Current Funding Level	\$4,485,607		\$4,485,607
Executive Recommendation	\$305,104	\$432,600	\$737,704
Freight Transportation & Logistics Option	\$408,134		\$408,134
Total General Fund Request	\$5,198,845	\$432,600	\$5,631,445

Additional Request for Salary Package. The requests presented above do not include salary increases for July 1, 2023 or July 1, 2024. The equity adjustment recommended by Governor Burgum is the only salary adjustment provided for in the requests. In addition to the equity adjustment, UGPTI is requesting that the final salary adjustments for the biennium (as enacted by the Legislature) be added to the amounts presented in this request. Moreover, UGPTI requests that 70% of the salary increases for the 2023-25 biennium provided by the Legislature be funded through general funds. UGPTI's grants and contracts do not include built-in escalation clauses to pass through salary increases to federal or state funding agencies. This request is consistent with the funding formula for the equity adjustment recommended by Governor Burgum.

**House Bill No. 1020****House Appropriations****Government Operations Division**

Brynhild Haugland | January 16, 2023, 3 p.m.

Chad M. Orn, Project Development Director

Mr. Chairman and members of the committee. I'm Chad M. Orn, Director of Project Development for the North Dakota Department of Transportation (NDDOT). This submitted testimony is in support of the Upper Great Plains Transportation Institute's (UGPTI) section of House Bill 1020.

The NDDOT utilizes the expertise of the Upper Great Plains Transportation Institute (UGPTI) to assist in conducting research and special studies in areas such as traffic modeling, preparing needs analysis, determining economic impacts, and providing analysis on various transportation related topics. The services UGPTI provides are valuable to the state's transportation industry.

Mr. Chairman, that concludes my submitted testimony.



January 16, 2023

RE: Support Letter for HB 1020

Greetings Chairman Monson and Members of the House Appropriations Committee,

My name is Corrie Enander from Enander Seed Farm, Grenora ND. Our family farm started in 2002. We are grateful to serve the Potato Industry by providing Foundation Seed.

We strongly support HB 1020 in its initiatives to support ND Agriculture. NDSU is a leader in research and development of new varieties specific to ND and upper Midwest region. We are grateful for your past support. It has provided us farmers with many new varieties, knowledge on local agronomic growing recommendations, disease management and tools to remain top producers in US Ag Markets.

The young family farms depend on this research, knowledge and variety development. It provides us with the local independent knowledge to remain competitive in all agriculture sectors. We need your support to promote the development of new varieties that keeps North Dakota as the agriculture economic leader.

As a farmer and seed producer for ND we strongly ask you to support this HB 1020 to keep North Dakota producers with the leading edge.

Sincerely Grateful,

Corrie Enander

A handwritten signature in black ink, appearing to read 'Corrie Enander', with a stylized flourish at the end.

Enander Seed Farm, Grenora ND

January 10, 2023

To: House Appropriations Committee

RE: Nesson Valley Irrigation Research Project

House Appropriation Committee,

I am Tom Wheeler, Chairman of the Joint Advisory Committee of Williston Research Extension Center and Eastern Agricultural Research Center. Our advisory board stresses the need for a facility at our Nesson Valley Irrigation Project, 27 miles east of Williston to provide an office, lab, meeting room and heated shop. The irrigation staff currently utilizes a small office space in a chemical storage/chemical handling facility. This facility has been on the NDAES master plan needs for WREC since 2012 and is a high priority as ranked by SBARE.

There is an urgent need for ongoing irrigated research and education to aid producers in increasing crop diversity, adapt best management and irrigated practices and how to best integrate irrigated livestock grazing systems into their farming/livestock operations. The need for expanded irrigation in our region has never been more evident than the past 2 years because of our extreme drought conditions.

Expanded agricultural economic development in western ND will be driven mostly by expanded irrigation research and development as the catalyst to promote new and expanded production of high value crops and increased agricultural processing capability. The MonDak Irrigation Frontier has the potential to expand to 500,000 acres.

This much needed facility will also be a great help in the recruitment and retention of WREC staff.

We also ask for your consideration raising the authorization of fund raising for the greenhouse by another \$750,000. With the \$500,000 already raised we should have enough to finish the greenhouse. A greenhouse will be utilized by WREC staff for horticulture, agronomic, and plant disease research.

We respectfully ask for your consideration in supporting this budget request as a vital component in the mission of WREC.

Thank you for your support of North Dakota's number one industry, Agriculture.

Thank you,

Tom Wheeler

House Appropriations Government Operations Subcommittee

Steve Lee

1. 40+ year 1st generation cattle rancher
2. 20 years as a McLean County Commissioner, just starting 6th term
3. Currently serving as President of North Dakota Association of Counties (NDACO)

NDACO, representing all 53 counties in North Dakota, passed a resolution at our annual conference in October, encouraging increased state compensation for extension agents. The states salary contribution for extension agents has not kept pace with other costs or competition from private sector employers, making it difficult to attract new agents and retain current staff.

NDSU Extension and North Dakota counties have a unique partnership:

NDSU Extension provides:

1. 50% of extension agent salaries
2. 100% of extension agent benefits
3. 100% of training for extension agents

County partners provide:

1. 50% of extension agent salaries
2. 100% of office space, furnishings, cell and landline telephone, and utilities
3. 100% of transportation costs for extension work and ongoing training
4. 100% of salary and benefits for support staff

We are requesting additional state support for extension agent salaries realizing that this will also increase the salary support cost for county partners. The counties agree that this additional expense is necessary to attract and retain quality extension agents.

The McLean County extension office has two extension agent positions and one full time support position. We currently have one open agent position that, as of last week, had zero applicants, and there are several other open positions around the state.

Years ago, NDSU extension agents provided information about crops and livestock. While they still do that, those agents now provide assistance with horticulture in urban and rural areas, succession planning, senior programs, nutritional programs, youth programs, and many other programs and services. NDSU extension provides programs and services to every segment of North Dakota's population.

I strongly encourage you to support increased compensation for NDSU Extension Agents so the state and county partners can continue to provide these services to all of the citizens of North Dakota.

Good morning Committee Members,

My name is Wesley Frederick. I farm and ranch about 50 miles southwest of here in Grant County. I am a supervisor on my local Soil Conservation District serve on the State Soil Conservation Committee.

I am here in support of the NDSU Extension budget request and the Program Initiatives as ranked by SBARE.

I will speak more specifically to the fifth priority, involving the State Soil Conservation Committee Support.

North Dakota's 54 Soil Conservation Districts promote locally led, locally delivered, voluntary conservation programs. SCD's partner with a broad spectrum of organizations to maximize their impact. These partnerships, coupled with local leadership, bring statewide results. 100% of the funds allocated to the SSCC by the legislature are distributed directly to the SCD's, where they are used for employee salaries or benefits only. The SSCC distributes these funds to maximize the conservation impact of the local SCD's. I appreciate these dollars in my District, as it makes it possible to recruit and maintain quality staff to plan and implement for our local needs.

I have participated in programs offered through my SCD which have helped me on my farm. Results have been increased soil health and improved water quality, which have helped me make the land I operate on more resilient and economically viable.

Extension continues to play a vital role in conservation education and training with the SSCC. As conservation practices evolve, the programming developed within the Extension system continues to equip producers and develop leadership across the state.

In closing, thank you for the opportunity to ask for your support of the NDSU Extension budget and I would welcome any questions.

Before speech: Hello everyone, my name is Madalyn Meckle and I have been asked to talk a bit about 4-H today.

4-H speech

Madalyn Meckle

"I pledge my head to clearer thinking, my heart to greater loyalty, my hands to larger service, and my health to better living for my club, my community, my country, and my world."

That is the saying all of us 4-H'ers know so well, say so often, and actually use it without us even knowing it. I have been in the 4-H program for about 7 years, and the more I reflect on that very saying the more I think about how even though we say it with such habit, that it is practically engraved in our brain, thinking nothing about it when we say it, but it reminds me how much we actually use it.

When I think about the *"I pledge my head to clearer thinking"* I immediately see an image pop into my head, a blank thought bubble which consumes my brain. You may see something completely different, and that is 100% ok, because I think the 4-H motto is something that you can all take differently, but it is all working for one goal, one mission; to give everyone access to an opportunity. Now, when I think about pledging my head to clearer thinking a little deeper I think it is about having an open mindset. There are many ways to take the phrase "open mindset" but for me, I start thinking of experiences. I think about how when I did the engineering and design project, how open you had to be to failure, change, and your teammates ideas. An open mindset also makes me think about "help where you are needed", even if it isn't your specific job you just help. I have used clearer thinking in more ways than I thought I could.

The *"my heart to greater loyalty"* part confused me for a while when I looked at it. I kept thinking "How can I pledge my heart to the loyalty of 4-H?" But right now, I think that it isn't

pledging loyalty to 4-H, more so the people around me and the lessons they give. I think that a better way to comprehend this small, but impactful, section of the 4-H motto is lending your heart and help to the people around you which leads to amazing friendships and many new things learned. The things that I have gained from this part of the motto, are some of the most important ones. I have received knowledge and skills like how to deal with criticism, how I can be a good leader, and so many more things, but the biggest one that I am using right now is my speaking and communication skills. Without having these communication skills, I am not sure that I would be able to be standing here confidently telling you all this. I am able to have some leadership by helping with archery in our counties 4-H archery club and through our counties ambassador program as well. 4-H has enabled me the ability to be prepared for the workforce, along with the responsibility and skills it comes with. I have learned things like eye contact, posture, answering questions quickly and getting to the point all through judging during our county fair.

I think that "*I pledge my hands to larger service*" means working together to achieve a goal. Teamwork and helping others are such a big part of 4-H and everyday life. I have gained so many friendships and role models through 4-H, each with a different experience but usually we met through helping each other. I am positive that the people I have met through 4-H will help me whenever I need it, and I know I will help them too. Community service is also something that we do a lot in 4-H, many community service projects are done in events and meetings on both club and county levels. When I help in 4-H it comes in many different forms; I can be helping with tables and chairs for any event, helping others loading and unloading their projects, helping set up targets, simply opening doors, and this very moment where I am talking to all of you about 4-H. The friendships I have gained from 4-H alone are some of the best I have.

During the 4-H pledge, when we say "*I pledge my health to better living for my club, my community, my country, and my world.*" I first think of physical health, and that is true, 4-H does have the healthy club program which promotes healthy eating, activities, and quality family time. But I think that the health part goes a little deeper. I believe that it relates to having a healthy and good; mindset, mental health, and character. In 4-H, you grow your personality, the way you see everyday things, and you learn to look for the good in everything. No one's life is perfect, no one's road is a straight jog, more of a winding and bumpy trail full of ups and downs. In 4-H, I have grown my support group, people and mentors I can trust, they help me through every little pot hole in my trail which is helping me become the healthiest and happiest, best version of myself.

Since I am approaching the end of my speech, I just want to tell you 4-H is for anyone. 4-H has more things to offer than it doesn't, and it is never too late to start. If you have something you love to do, like baking for an example, you can bake things to show. Not only will you be baking, you will be growing. Growing your strengths, your knowledge, friendships, growing in things you didn't know was possible. 4-H has so many things to offer, so many things that if I wrote about them all, I'd be up here for an hour, writing about all the things I've done and all the things you can do. In order to do these things 4-H needs funding, so everyone can grow.

Now that I am done telling you about my experiences, the 4-H motto, and the ways 4-H has personally impacted me, and how it can impact you. I have a final question for you, can you help us all get access to an opportunity; support 4-H, Extension, and the youth of North Dakota by supporting this funding bill?

Leah Mehling
Grand Forks County 4-H
15 years old
10 years in 4-H

There are many ways that 4-H has impacted my life. I am going to tell you about several ways that 4-H has positively impacted my life and real-life experiences.

First, there are many educational opportunities that 4-H has offered me, such as meat and livestock judging, and Project Expo. These events have taught me how to do public speaking, to prepare ahead, and learn more about what I like.

Second, 4-H has been a very fun experience for me and my peers. There have been many events that I didn't want to go to. I went anyway and ended up having a lot of fun. What makes 4-H so fun? The environment is always welcoming and you don't have to worry about doing something wrong.

Another way 4-H has impacted my life is that it is eventful. There are many events each month and the best part is that they aren't the same thing. For example, there are cooking, fashion and livestock events. This keeps me out of trouble.

Finally, 4-H has impacted me because it has provided a way for me to meet new people. I met new people by going to events like LAW, which stands for Leadership Awareness Weekend and Project Expo. When I go to these events, I don't just sit in a corner, I want to make more friends and I DO!!

What can I say, 4-H has grown on me throughout the years. There was a time when I hated going to any 4-H events. My parents still made me go. They thought 4-H would help be become more outgoing because I was a very shy kid. This happened for many years, but as I got older, I still went not just because my parents made me, it was because I really liked it. I started going to more events and I keep going to more and more. Now, I'm at every event I can go to. There are even events that I go to not as a 4-H member, but as a 4-H leader, helping with the event.

I have been so much more confident since I started 4-H. It may have taken a while, I got there and that's why I am able to talk in front of all of you. So, thank you!

Nathan's speech

Hi, my name is Nathan Springer. My 4-H clubs are Clover Power and Burleigh County Bowmasters. I live outside of Bismarck. I like 4-H because you can do and learn almost anything. My favorite projects are woodworking, pets and aerospace, because I get to work on what I like to do. Some of my favorite projects include making a bee house, refinishing a desk and making a dog house. I can also build and launch rockets. I do all my projects with help from my mom and dad. If they don't know how to do something, we research it online or ask people we know for help.

I have participated in the following events at State Fair: Consumer Decision Making, Project Expo, Communication Arts and Static Exhibits. My favorite State Fair story is that I exhibited for Project Expo next to a boy from a different place, but with similar interests. We met again at 4-H Camp for Forensic Science. We are friends today. I like meeting new people through 4-H.

The impact that 4-H has had on me is that I am happier, more fulfilled and have more life skills, like being responsible with money. I have learned that hard work pays off. Over the years, I have won many grand champion ribbons in many of the events I have participated in. Even my cat is a grand champion!

Thank you for listening.

Samantha's Speech

Hi, my name is Samantha Springer. I am a member of the Clover Power and Burleigh County Bowmasters 4-H Clubs and I live outside Bismarck. I like 4-H because it teaches me how to do various things like public speaking, time management and life skills. I have made many 4-H friends and gone to camps. My favorite projects include making a cat harness with paracord and a cat tree for my pets, making paint pours and a realistic floral still life for acrylic painting, making a 3-D cardboard figure for sculpture, and making a wooden pen using a lathe and making a cutting board for woodworking. These were all exhibited at Achievement Days in Static Exhibits.

I have participated in Consumer Decision Making, Project Expo, Communication Arts and Static Exhibits at State Fair in both Junior and Senior Divisions. One of my favorite stories from State Fair begins at County Achievement Days. I painted a pre-made ceramic sculpture of a narwhal and it did really well at county. I had a nice conversation with the judge, sharing knowledge about narwhals, as well as my artistic skills. The judge was very nice. It went to state and did well at state too. I really liked making it and it is still on display in my room. The catch is that the piece broke prior to county and I had to creatively fix it by painting a patch on the tail. We never thought it would do well at all. Sometimes a win is sweeter when you don't expect it. We are often surprised by our results in 4-H.

I am an active 4-H member and received many awards. I've been in the top 10 members for points received in my county multiple times. More than the awards, 4-H taught me determination, hard work, useful information, time management, how to be productive, decision-making skills and communication skills. 4-H made me a better speaker and leader in my community and club. It taught me how to speak to various groups. I continue to take leadership roles in my club (as an officer) and in my county (as an ambassador). 4-H made me more confident and sure of myself. I am thankful for the encouragement I receive through awards, judges comments, 4-H personnel and club leaders.

Thank you for letting me speak. I appreciate your time.

House Appropriations – Government Operations Division
Committee Testimony
Northern Crops Institute
Mark Jirik, Director
January 16, 2023

The Northern Crops Institute is a government agency, written into Century Code in 1981, whose mission is to grow markets for crops grown on the northern plains, and based on the campus of NDSU. Our founders and legislative leaders understood that crops and crop quality don't end at state borders.

Sometimes, it is hard to think about how much has changed in 40 years. 40 years ago, the primary mission of NCI was supporting the wheat and barley industry. Today, we continue our work in wheat and barley, but are actively engaged in promoting soybeans, corn, pulse crops – and the wide array of crops grown throughout this region for both food and feed uses.

There are three main areas that I would like to cover for you today, first is an overview of who we are and what value we bring to the state, second, I'd like to highlight some changes over the last biennium and since our strategy was rolled out four years ago, and finally a look at our challenges and opportunities over the next two years.

Our institute, and its strategy, is directed by the Northern Crops Council, a council made up primarily of farmer leaders, but also business leaders and the North Dakota Commissioner of Agriculture, General Manager of the North Dakota Mill and Elevator, and the President of NDSU or his designee.

Our staff at NCI is made up of a number of a wide range of people with experience in food and feed science, education, and industry experience.

NCI promotes use of crops grown in this region in a number of ways including short courses that are offered in person, hybrid, online, and on demand for international grain buyers. Hosting trade teams with our commodity group partners and speaking to international and domestic audiences highlighting the value of crops grown in this region. Hosting webinars hosting a wide range of topics from market updates to cereal grains to ethanol.

Most of our international buyers come to us through our partners at US Wheat Associates, US Grain Council, US Soy Export Council, and other international crop promotion partners. Their funding comes from both federal dollars, as well as state check off dollars with support from the state level commodity groups.

From a program standpoint, the last biennium continued to be one of change. Due to the pandemic, the first year continued to be predominated online programs, the second year that shifted to a combination of both online and in person.

The pandemic will forever change how NCI operates. The online courses will not go away. We've found it is a way to reach a different audience. Usually more junior employees at companies overseas, or from countries where travel to the US is especially difficult.

In 2021 we conducted our first value survey, looking at the value that our institute brings to the region as far as growth in exports and investment in the region. At that time, we looked at our in person courses in 2018 and 2019, which were all in person.

We just concluded our analysis for 2020 and 2021, where we were all on line courses, and we expected to see a drop off in results. Two years ago, 95% of our course attendees reported greater confidence in supply chains as a result of attending our courses – this year it was 87%. Two years ago 99% said they had a better understanding of crop quality as a result of our courses, this year it dropped to 97%. Two years ago, 51% reported increasing the volume purchased of US commodities as a result of our short courses – this year, it actually increased to 56%.

The NCI team did an excellent job of shifting how we conduct our courses – conducting online education is very different than conducting in person, how we engage, how we track, and how we present courses takes completely different processes. The team engaged with experts, learned through trial and error, and never gave up.

In addition to short courses, we also host a wide number of webinars, which are free and open to the public on a wide range of subjects. Our ongoing webinar series are “Market Update” which broadcast twice a month. Cereal Innovators, Future of Feeding, and Everything Ethanol, all happen once a month. In addition, we've worked with a number of partners on shorter term webinar series on specific topics for specific international geographies.

Our second handbook was released last year, “Ancient Grains of the Great Plains” and our third will be released in the coming weeks, “Guide to Wheat Quality.” With two more in the works. These are technical handbooks, designed for business and industry to learn how to better utilize crops from this region.

NCI also host our first two conferences in 2022. NCI's Ancient Grains Conference was in Elk River, MN at the historic Oliver Kelley Farm focused on building markets for ancient and specialty grains producers. Our “Next Five Years” conference was focused on helping the industry look at what are the major items to watch in our markets over the next five years.

In addition to these programs, we also conduct technical services for companies that are looking to use crops grown in the region for their products. In the last 5 years, we have dealt with about 150 entities – ranging from entrepreneurs, public entities and private businesses on over 400 projects. About 40% of them have investments in North Dakota – all of them were looking at increasing usage of crops grown in this region. These services range from testing, to milling, pasta production, snack food production or feed milling. These services are generally confidential in nature. But it is a way or putting our equipment to work for the state of North Dakota and the companies that use the commodities grown here.

From a technical service standpoint, we only surveyed those clients that were private companies working on projects in 2020-21, again, looking at the impact after the fact. On average, the overall investment in the region has increased 24%.

That gives you a little bit of background on who we are today, and what we've done, I'd like to take a look at how NCI has changed from the last biennium, and since the start of implementing our strategic plan.

In early 2019, the Northern Crops Council met in Mandan and discussed a new strategic direction for the Northern Crops Institute. The plan called for intensifying the focus on our overall mission and making sure we were true to all the priorities laid out in the North Dakota Century Code. It was a strategic plan that laid out a vision of growth allowing NCI to reach its full potential.

I am thankful to the Northern Crops Council for their vision and leadership in laying out this framework. And equal credit needs to go with the dedicate staff at NCI for carrying out the mission and living that strategy every day.

From prior to the strategic plan to today, NCI is conducting four times the number of short courses.

From prior to the strategic plan to today, NCI has doubled the number of clients that we work with in an average year.

From prior to the strategic plan to today, NCI is doing more than two times the number of projects.

Prior to the strategic plan, 75% of NCI's budget came from appropriations and 25% came from special funds, today that has reversed itself, with 25% of NCI's projected budget this year coming from appropriations and 75% from special funds.

Prior to the strategic plan, NCI had never conducted a webinar. In 2022, NCI hosted 57 webinars with over 2500 attendees.

Prior to the strategic plan, NCI had never conducted a conference, in 2022, NCI hosted two well attended and highly rated conferences.

Prior to the strategic plan, NCI had never released a handbook, today, there are two NCI handbooks available, one in final proofing, two being written, and another 12 titles that are in the early stages.

From the last biennium to this biennium, NCI is forecasted to double overall attendance at events.

From the last biennium to this biennium, NCI is forecasted to doubled technical service projects.

From the last biennium to this biennium, NCI is forecasted to almost double our special funds income.

Four years into our strategic plan, and NCI is well on track to achieving its strategic objectives. This biennium has been marked by some key challenges, especially the pandemic, and the NCI staff has done a tremendous job of not stumbling, but turning those challenges into stepping stones.

Finally, I'd like to look at some of the challenges and opportunities facing us in the coming biennium.

First: Livestock and feed market development. NCI has always been involved in helping develop feed markets worldwide. The majority of the crops we produce, or their byproducts, are used in the feed industry. We've been growing our activity over the last biennium in our work in growing markets for the feedstuffs produced in this region, and that activity is only expected to increase the coming year.

For the last thirty-three years, NCI has run the NCI feed center on the campus of NDSU. This facility makes feed for the NDSU farms, but also is used as a training center for international feed mills, trade teams, as well as for domestic market participants.

The feed center is also used for conducting quality studies and analysis, some on our own, some in conjunction with our university partners at NDSU and other land grants around the country. Today, we are working on five ongoing projects related to feedstuffs from the region.

The most publicized study is an ongoing study looking at the quality of US corn versus our competitors in Argentina, Brazil, and Ukraine. International buyers criticize US corn as breaking up easier and arriving in poorer shape than our competitors. What we've found is while our corn is different and it does break up easier – it is also less costly to mill, and thanks to our partners at SDSU and Auburn, appears to be more digestible and creates a better feed. Essentially turning something that overseas buyers would like to discount us for, into an asset.

There are an additional six projects being discussed that would be run through the feed mill.

The challenge is, the feed mill has a number of problems.

Our pellet mill was installed as a used piece of equipment, and is now approaching 70 years old. Parts are no longer being manufactured for it, and it is at risk of critical failure.

Our ingredient bins have major structural issues, and while they have been maintained and patched, there are no longer places to apply patches to, some of those bins will need to be taken out of service in the near future as they are in danger of critical failure. In addition, today we have four ingredient bins. When the mill was built in 1990, we didn't have the number of feedstuffs available in the region today and bulk storage for projects is a major issue.

Our warehouse was not designed for the number of projects that are ongoing – our corn study had us unload a fifteen-ton container of corn in 60lb bags – we had pallets of corn stored throughout the feed mill. As we increase the number of projects, there will be no place to effectively store any bagged or palleted material.

There is equipment that is on long term loan to us, that is in storage and needs to be taken up and set up as needed as there is no place to install in the current mill.

To access the state-of-the-art auditorium at the feed mill, our course participants and visitors need to enter the feed mill and take stairs open to the equipment and dust.

The auditorium is on the second floor of the feed mill, and is not handicap accessible.

There are not proper places to do hands on training and analysis. Today, we are using a converted storage room for serving meals and doing training not fit for the auditorium.

Finally, our parking lot is Red River clay – and any work or visitors in the spring or fall are discouraged by a muddy mess. Any trucks or containers risk having to be pulled or hoisted away from the mill.

The governor's budget recommended \$3.9 million in onetime funding from the Strategic Investment fund for feed mill upgrades. We would very much appreciate this funding.

Our second major challenge continues to be with staffing, we've struggled to fill open positions over the last biennium and remain competitive in the market place with our current staff. The state need to continue to have a good compensation plan, and we appreciate the Governor Burgum's recommendations on compensation plans.

Finally, our greatest opportunity over the next biennium will be successfully transitioning to our new home at the Peltier Complex. This investment by the state of North Dakota and our partners will provide the opportunity for NCI to continue to focus on growing markets and adding value for the northern plains.

While we have no request for additional appropriations beyond the normal funding and salary increases, I would like to point out that as we've moved our special funding from 25% to 75% of budget, it does get complicated as some of our grants having matching requirements and limit what they cover. For the last two biennium, we've said we would find the funding to grow outside of appropriated funding. In two year's time, we might reach the maximum of what we are capable of.

Thank you for your continued support of the Northern Crops Institute.

**North Dakota Stockmen's Association
Testimony to the
House Appropriations Committee on HB 1020
Jan. 16, 2023**

Good morning, Mr. Chairman and House Appropriations Committee members. For the record, my name is Julie Ellingson and I represent the North Dakota Stockmen's Association, a 93-year-old beef cattle trade organization comprised of more than 3,100 cattle-ranching families from across the state.

We join with our agricultural colleagues in enthusiastic support of HB 1020. It represents critically important programs and projects that were prioritized by the State Board of Agricultural Research and Education through its comprehensive process. Agriculture is our state's economic engine and these research and Extension efforts help keep our industry and our state strong, and we appreciate all of your past support.

We recognize the major tasks you have ahead of you as you prioritize needs and allocate funds for the next biennium. As you weigh those important decisions, we urge you to keep in mind the state's return-on-investment when you invest in ag research and Extension endeavors. This budget can help bolster the state's primary economic driver; leverage matching dollars from industry and private investors; and generate more tax dollars that will result from agriculture's prosperity.

The package before you has value from top to bottom. There are three elements I want to specifically call out:

First, from a cattle rancher's vantage point, the cropping systems initiative and its weed control focus are of particular interest. Not only are herbicide-resistant weed populations expanding, but newcomers like the dreaded Palmer Amaranth threaten our landscape and we want to get ahead of them to protect our crop, hay and rangelands and preserve their productivity.

Second, the no. 2 livestock development initiative is also one of timely significance. It not only dovetails nicely with the work our organization has been doing the past 20 years to site and support new and expanding cattle feeding operations in North Dakota, but it can help producers take advantage of existing and new value-added processing facilities in our state, including the three upcoming soybean crushing plants. Livestock development will be an important topic of discussion this legislative session and this initiative will augment other work being done in the policy arena.

Third, in order to have a robust agricultural industry, you need robust agricultural workers, and the farm and ranch safety and health initiative will help ensure that our hands-down no. 1 ag commodity, our farmers, ranchers and agribusinesspeople, have the necessary resources to thrive and do their work providing food and fiber for the world.

Thank you for your consideration of these priorities and for all the support you have provided to help keep agriculture strong. I would be happy to take any questions you might have.

Testimony in favor of SB1020 –NCI-Phil Murphy for NDSGA

The members of the ND Soybean Growers Association are in favor of budgetary support for the Northern Crops Institute. Funding this key entity fully is important to maintain as well as help open new markets by improving relations and explaining to their visitors from around the world how North Dakota soybeans have particular value and trait characteristics. We would not have the place in world markets that we currently enjoy without the NCI. Thank you for helping this world-class entity excel.

Testimony for 1020, UGPTI – 68th Session Phil Murphy for the ND Soybean Growers Association

Chairman and Committee, Upper Great Plains is so trusted that the former director of DOT referred to them as more or less the research arm of that agency. We have come to rely on their science, research, findings and recommendations when attempting to move legislation supporting roads and bridges. They are always a pleasure to work with and we hope you can support their budget fully. Thank you for your consideration.

A Fast-Track Program to Enhance Evaluation and Marketing of North Dakota Potatoes

A potato fast track program would facilitate evaluation of advancing selections moving through the NDSU potato breeding program, culminating in release and commercialization of new cultivars from the ND Agricultural Experiment Station and adoption by potato producers and our potato industry (ideally in ND and beyond).

Currently, the potato breeding program cannot produce large quantities of seed potatoes (5,000 cwt or more required for commercial scale runs depending upon end use) of NDSU advancing selections for evaluation by certified seed producers, commercial potato growers, or their customers including potato packers, frozen or chip processors, or other end-users of NDSU cultivars. Limitations include financial, equipment/facilities, land, and personnel resources, skillset of current staff, and scope of the breeding program.

Utilization of funding:

Based on the request of \$250K biennial funding of \$125,000 annual appropriation, the first priority for funds would be utilization for minituber production, certified seed multiplication, and commercial grow-out for commercial scale-runs by potato packers, frozen or chip processors, or other end-users. A secondary priority would be a Research specialist (1 FTE, ~\$60,000 and \$30,600 fringe @ 51%, or some part of an FTE) for the Potato Breeding project with specific responsibilities to include tissue culture and clone bank maintenance, and in conducting quality evaluation of advancing selections (including but not limited to chipping, French frying, glycoalkaloid testing, and sensory evaluations for of baked, boiled, microwaved, French fried, and reconstituted potato flakes) at the Peltier Complex Potato Quality Lab. Initiation and cleanup in tissue culture by our program facilitates more rapid movement of advance selections to minituber producers.

An advisory committee established to guide the system would annually review advancing selections to determine their merit for entry and continuation in the pipeline; one or two selections would be entered annually. If available in the seed pipeline, a few cwt would be diverted for trial seed (such as agronomic, screening, and evaluation trials) at NDSU including nutrient management studies for contributing to cultivar specific management guidelines at time of release to enhance grower/industry adoption. Based on current (Jan. 2023) potato production costs and average yield for non-irrigated certified seed production:

3-Year Seed Pipeline Schematic (1 selection)

	Year	Production	Fee/unit	Cwt.	Cost per line
Minituber Production	1	50 lbs.	\$65		\$3,250
Field Year (FY) 1 Seed	2	0.1 acres	\$12,000	21	\$12,000
Field Year 2 Seed	3	0.7 acres	\$12,000	186	\$12,000
Field Year 3 Seed	4	4 acre	\$12,000	725	\$48,000
Commercial Grow Out	5	29 acres		5,220	packout*
					\$75,250

* Fresh pack, chip or frozen processing, etc.

Impact on the breeding program's ability to release successful cultivars

Funding of this project would provide a mechanism for enhanced evaluation of advancing selections by grower and industry stakeholders. Enhanced evaluations would create an environment/structure where superior selections were pulled from the breeding program pipeline, rather than the breeder pushing them to growers and end users without fully knowing their potential at commercial scale, thus requiring growers/end users to invest in and conduct the seed increase, large-scale testing, and market development themselves. A fast track system limits financial risk for seed and commercial producers and would not jeopardize Plant Variety Protection, as the fast track scheme would be under Material Transfer Agreement for Evaluation Purposes only. Currently, seed and commercial producers must gamble on the release and success of a potato selection, as they may not sell the materials under an MTA for evaluation to recoup costs.

Benefits of a fast track system may result in a larger number of successful cultivar releases and greater adoption by producers and end users. Additionally, a fast track structure may shorten the time to cultivar release by 3 to 5 years or more based on rapid multiplication of seed and an outcome of commercial scale evaluation; cultivar release is currently a 10 to 20-year process.

Additional information:

A small informal group has been loosely operating (providing discussion, potential guidance in establishing, and potential participation) since August 2021, based on the desire to have a fast track program in ND to support the NDSU potato breeding program.

A BILL for an Act to amend HB 1020 to provide an appropriation of \$250,000 for the North Dakota Spud Fast Track requirements:

1. 1 (one) FTE @ \$60,000 annual salary with @51% fringe of approximately \$30,600,00, Duties for Spud Fast Track project with specific responsibilities to include tissue culture and clone bank maintenance, and in conducting quality evaluation of advancing selections (including but not limited to chipping, French frying, glycoalkaloid testing, and sensory evaluations for of baked, boiled, microwaved, French fried, and reconstituted potato flakes) at the Peltier Complex Potato Quality Lab. Initiation and cleanup in tissue culture by our program facilitates more rapid movement of advance selections to minituber producers.
2. 300 pounds mini-tubers @ \$65.00/lb \$19,500
3. Minituber grow out \$48,000
4. Mileage, incidental expenses \$1,300
5. No monies from this appropriation may be used for any other purpose than as described in items 1-4.

Dear Parents and Campers,

The North Dakota 4-H Program has offered camping as educational experience since 1967. Programs are designed to develop life skills for safe and healthful living, enhance personal development, and provide constructive uses of leisure time. We are committed to providing a safe environment where youth can make new friends and develop new skills.

Our facilities include a main dining hall, an educational center with showering facilities, Butler Outpost multipurpose building and three sleeping cabins. The camp has walking trails along the Missouri River and lots of open spaces to enjoy.

Our staff members are trained in outdoor skills, science, agriculture, and human development to work with youth to ensure a high-quality experience for campers.

In addition to the planned education program, recreational opportunities are included for each camp. Campers enjoy many activities, including our walking trails, mud pit, and archery. Campers especially like the Dutch oven cooking, evening campfires, waterslide, and a dance. New to camp this year is the 4-H Pond where campers can enjoy fishing, swimming and canoeing.

**Camps begin with check-in at 4 p.m.
Central time and end at 11 a.m.
Central time unless otherwise stated.**

The North Dakota 4-H Camp is on 80 acres of wooded riverfront property 1.5 miles west of Washburn, N.D., and has provided overnight camping to youth for over 50 years.

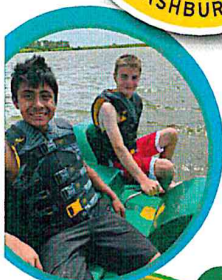
The camp is located between the Lewis and Clark Interpretive Center and historic Fort Mandan along the Missouri River.

County commissions, North Dakota State University and U.S. Department of Agriculture cooperating. NDSU does not discriminate in its programs and activities on the basis of age, color, gender expression/identity, genetic information, marital status, national origin, participation in lawful off-campus activity, physical or mental disability, pregnancy, public assistance status, race, religion, sex, sexual orientation, spousal relationship to current employees, or veteran status, as applicable. Direct inquiries to Vice Provost for Title IX/ADA Coordinator, Old Main 201, NDSU Main Campus, 701-231-7706, npsu.ecaa@ndsu.edu. This publication will be made available in alternative formats for people with disabilities upon request, 701-231-7881.



Open to
ALL youth

Go For Fun,
Go For Adventure!



4-H SUMMER CAMPS 2022

located at
North Dakota 4-H Camp,
Washburn, N.D.



<https://tinyurl.com/2022nd4hcamp>
www.facebook.com/ND4HCamp

REGISTRATION

#17631

4-H membership is NOT required for participation. Scholarships are available for income eligible families. Please contact the Center for 4-H office for more information. (701) 231-7251.

Register online: <https://tinyurl.com/2022nd4hcamp>
More information about the camps is available online.

Contact information:

For more information, contact your local office of NDSU Extension:
www.ag.ndsu.edu/extension/directory/counties

Camp Selection: Be sure to select the camp program appropriate to your child's age. Age requirements are noted beside each camping program.

Deposit: A deposit of \$50 is required at online registration. The remaining balance be paid no later than two weeks before camp start date. The deposit is applied to camp fee and is non-refundable. Payments may be made online or by a check paid to ND 4-H Foundation.

Confirmation: A confirmation will be sent via email upon receipt of your registration. All correspondence will be through the email address you provide to UltraCamp when you set up your profile online.

DATES	CAMP PROGRAM	GRAD
May 31-June 4	Livestock Camp	Age:
May 31-June 4	Just Starting to Ride: <i>Wish I Had a Horse Camp I</i>	Age:
June 5-9	4-H Adventure Camp I	Age:
June 5-9	Fish Camp	Age:
June 12-16	Just Starting to Ride: <i>Wish I Had a Horse Camp II</i>	Age:
June 12-16	4-H Explorer Camp	Age:
June 17-18	Clover Camp I	Age:
July 10-14	4-H Adventure Camp II	Age:
July 10-14	Camp Chef Cook Off	Age:
July 15-16	Clover Camp II	Age:
July 17-21	STEM Explorer Camp	Age:
July 31-Aug. 4	Trades Camp	Age:
July 31-Aug. 4	4-H Forensics Science Camp	Age:
Aug. 7-11	Outdoor Adventures for Air Force Youth	Age:

Camps begin with check-in at 4 p.m. Central time and end at 11 a.m. Central time unless otherwise stated.

Summer Camps 2022



Fish Camp

June 5-9 Ages: 9-14
Cost: \$350

This camp is for youth who love to fish. Fish every day of this camp on some of the best fishing lakes in the state. Campers will catch small and largemouth bass, bluegills, crappies, trout and walleyes. Trophies are awarded to the anglers who land the largest in five fish species. Transportation and bait supplied.

Just Starting to Ride: Wish I Had a Horse Camp II

June 12-16 Ages: 9-11
Cost: \$375

Have you always wanted a horse? This camp is for you! Come learn how to saddle, bridle, ride, lead and care for a horse. From grooming demonstrations to a halter show, this is your chance to experience what owning a horse is like. This is a beginner camp for youth interested in horses. An animal is not required.

4-H Explorer Camp

June 12-16 Ages: 8-12
Cost: \$350

Are you new to 4-H camp and want to experience a little bit of everything? Experience environmental activities, archery, outdoor cooking, canoeing, fishing and new friendships. Explorer camp will provide each camper with a true camp experience. *Past 4-H campers may also attend this camp.

Clover Camp I

June 17-18 Ages: 5-9
Cost: \$175

Check-in starts at 10 a.m. Friday. Camp ends at 1 p.m. Saturday. Have you always wanted to try out 4-H Camp? Bring your parent or guardian and discover 4-H fun at camp! Together you will make new friends, explore the outdoors and appreciate one-on-one time in a beautiful outdoor setting. Campfire, crafts and exciting 4-H project activities await. Let the adventure begin! Come see why 4-H campers have so much fun!

4-H Adventure Camp II

July 10-14 Ages: 8-14
Cost: \$350

Come experience a variety of 4-H activities! Adventure camp focuses on different activities each day and encourages friendship, leadership and an appreciation for the outdoors. Topics will include fun with outdoor cooking, archery, woodworking, fishing and outdoor games. These are just a few of the fun activities you will experience during the week.

Camp Chef Cook Off

July 10-14 Ages: 10-18
Cost: \$350

Cooking is fun, but when there is a challenge and teammates, the temperature is increased. Here's your chance to be a top-notch chef! Do you have what it takes to keep your cool while the temperature rises? From learning how to make treats to outdoor cooking and food preservation, this camp is for youth who love cooking. Cultural cooking experiences will be incorporated into each full day of camp.

Clover Camp II

July 15-16 Ages: 5-9
Cost: \$175

Check-in starts at 10 a.m. Friday. Camp ends at 1 p.m. Saturday.

Have you always wanted to try out 4-H Camp? Bring your parent or guardian and discover 4-H fun at camp! Together you will make new friends, explore the outdoors and appreciate one-on-one time in a beautiful outdoor setting. Campfire, crafts and exciting 4-H project activities await. Let the adventure begin! Come see why 4-H campers have so much fun!

STEM Explorer Camp

July 17-21 Ages: 10-15
Cost: \$350

Do you enjoy being creative with STEM activities? STEM camp is your chance to experience fun science, technology and engineering activities. The summer camp setting will allow campers to incorporate nature and the outdoors into their STEM activities. Activities will include Rube Goldberg machines, drones, robotics, food science and creative nature activities.

Trades Camp

July 31-Aug. 4 Ages: 12-18
Cost: \$350

This camp is an excellent opportunity for students ages 12-18 to explore several different aspects of the skilled trades industry. Students can expect to participate in hands on activities involving welding, carpentry, electrical, plumbing, HVAC and much more!

4-H Forensics Science Camp

July 31-Aug. 4 Ages: 10-18
Cost: \$350

Join fellow campers as you learn techniques in fingerprint identification and processing, DNA, hair and fiber analysis, impressions (shoe and dental), crime scene recording and handwriting analysis. There will be a mini crime scene to solve each day of camp, with a final crime scene on the last day of camp.

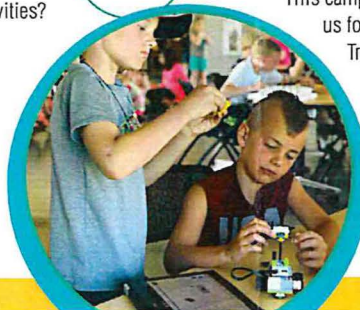
Outdoor Adventures Camp for Air Force Youth

Aug. 7-11 Ages: 10-14
Campers must be member of an Air Force/Air Force Reserve/Air Guard family

Cost: \$350 (\$325 is covered by a 4-H Military Partnerships/ Dept. of the Air Force grant. Families are responsible for \$25 deposit)
For REQUIRED registration code contact: diane.f.hahn@ndsu.edu

Make new friends, challenge yourself and have fun while enjoying time in nature! Campers will be encouraged to step out of their comfort zone as they participate in a wide variety of camp experiences. Activities will include team challenges, canoeing/kayaking, obstacle course, outdoor cooking, archery, creative arts and others. Work with your team to solve a crime using forensic techniques in fingerprint identification, DNA, hair and fiber analysis. This camp gives you a little taste of everything, so unplug and join us for a FUN, outdoor adventure this summer!

Transportation is included from:
Minot Air Force Base, Grand Forks
Air Force Base and Fargo



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NDSU Extension

Responses to questions regarding HB1020

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#1 NDSU Extension funded initiatives update from 2021-2023 requests.

Three 2021-23 initiatives were partially or fully funded:

1) Livestock Initiative (4 FTEs requested, 2 FTEs funded)

- a. **Livestock Development Specialist** – Specialist hired on NDSU campus to lead Extension educational efforts to grow livestock gross agricultural receipts in ND. Growth in the livestock industry means additional market opportunities for commodity feed grains, coproducts and other ag commodities. This specialist recently completed a draft of the economic impact of large-scale confined swine finishing operations in ND. These operations have the potential to attract apx. \$400 million in new money annually for the next 20 years.
- b. **Forages Specialist** – Specialist hired at North Central Research Extension Center to provide expertise on testing and improving hay quality, extending the grazing season with corn stalks, how to best manage cattle during winter and post-blizzard livestock stress. Initiated research on oat/sudan grass mixtures and monocultures and warm season grasses as forage in ND.

2) Agricultural Health and Safety Initiative (3 FTEs requested, 1 FTE funded)

- a. **Farm and Ranch Safety Coordinator** – Specialist hired on NDSU campus to help families mitigate stress, injuries and fatalities so agricultural operations can continue successful production. Led 26 youth in camp setting to certify them to operate a tractor and ATV, enter the ag workforce, and use safety skills to prevent youth injuries and fatalities. Partnering with Sanford Health for research on farm machinery injuries by reviewing Level I trauma patients admitted at Sanford's Trauma Centers.

3) Big Data Initiative (1 FTE requested, 1 FTE funded)

- a. **Big Data Specialist** – Specialist hired on NDSU campus to interpret field data and develop applications and other systems to be used by producers in making informed decisions. Currently involved in reviewing and updating Nitrogen Calculator, Pest Management App, Sugarbeet Production Guide App, and Cow Herd Appraisal Performance Systems (CHAPS) app. Operational funding also supported web-based Variety Trial Selection Tool development.

#2 NDSU Extension FTE breakdown for 2023-2025 requests.

1. Cropping systems initiative		
FTE	Position	Purpose
1	Western Crop Production Specialist (located at WREC, DREC or NCREC)	<ul style="list-style-type: none"> Provide leadership for extension programs and education on new and emerging crops in the western ND growing regions. Focus on issues related to crop rotations, drought concerns, diseases, insects and weeds unique to the region
1	Soybean Pathologist (Main Campus)	<ul style="list-style-type: none"> Develop and deliver disease management information to growers and industry partners to help prevent or mitigate economic loss to ND soybean crop.
1	Weed Specialist (Main Campus)	<ul style="list-style-type: none"> Provide leadership for extension programs and educate on best management practices for difficult to control, herbicide resistant and noxious weeds to maximize crop yields.
1	Carbon Credit Specialist (Main Campus)	<ul style="list-style-type: none"> Provide education and assistance on research-based carbon capture practices so growers are fully informed before signing long-term contracts.
1	On-Farm Research Coordinator (located at an REC)	<ul style="list-style-type: none"> Provide leadership to an on-farm research and extension program and provide a bridge between field-scale problems and novel plot-sized concepts. Clubroot fungus is emerging as a significant disease across the canola growing region of ND.
	\$400,000 in operating support	<ul style="list-style-type: none"> Supports the baseline operations of each specialist (e.g., computer, office equipment, applied research equipment - \$40,000/ea/biennium = \$200,000). Support for on-farm research program operations (\$200,000/biennium)
5 FTEs total	\$1,400,000 total request	

2. Livestock Development Initiative		
FTE	Position	Purpose
1	Veterinary Epidemiologist	<ul style="list-style-type: none"> Provide educational programs and serve as key technical resource protecting the health of North Dakotans and their livestock through the monitoring of zoonotic diseases common to animals and people.

1	Swine Specialist	<ul style="list-style-type: none"> Provide leadership in swine development and best management practices, animal health and biosecurity around this species.
1	Off-campus Livestock Development Specialist (to be located at REC)	<ul style="list-style-type: none"> Develop and deliver Extension programs on the benefits of integrating livestock into cropping system for increased soil health and expanded market opportunities.
	\$120,000 Operating Expenses	<ul style="list-style-type: none"> Supports the baseline operations of each specialist (e.g., computer, office equipment, applied research equipment - \$40,000/ea/biennium = \$120,000).
3 FTEs total	\$770,000 total request	

3. Farm and Ranch Health and Safety Initiative		
FTE	Position	Purpose
	\$250,000 Operating Expenses	<ul style="list-style-type: none"> This initiative was partially funded last session with operating expenses and the Extension Farm and Ranch Safety Coordinator hire was authorized. Operating support requested in 2023-25 for additional farm and ranch safety and health resources.
	\$250,000 total request	

4. Program Support for 4-H		
FTE	Position	Purpose
1	4-H Entrepreneurship Specialist	<ul style="list-style-type: none"> Provide leadership for extension programs to build a strong and effective workforce in the state. Specific technical skills (STEM) combined with teamwork, decision-making, critical thinking and communication will be taught to students through 4-H programs.
	\$120,000 in operating support	<ul style="list-style-type: none"> Operating support assists with expenses associated with specialist including office, computers, and travel. Additional operating support requested for camping, clubs and after-school 4-H programs
1 FTE total	\$320,000 total request	

5. Extension Operating and State Soil Conservation Committee Operating		
FTE	Position	Purpose
	\$300,000 in operating support for NDSU Extension	<ul style="list-style-type: none"> Operating support allows Extension specialists to develop innovative programming in a timely fashion, reach audiences as the need arises or develop new methods to connect with local communities.
	\$300,000 in operating support for SSCC	<ul style="list-style-type: none"> Operating support allows the State Soil Conservation Committee provide an increase in direct assistance funding to local Soil Conservation districts for technical assistance and conservation planning support.
	\$600,000 total request	

6. Increased Food Security Initiative		
FTE	Position	Purpose
1	Urban Ag/Value Added Food Technologies Specialist	<ul style="list-style-type: none"> Develop and deliver education on the food supply chain, food processing efforts and activities and value-added food product opportunities to grow North Dakota agriculture and the economy.
	\$200,000 in operating support	<ul style="list-style-type: none"> Operating support assists with expenses associated with specialist including office, computers, and travel - \$40,000/biennium) Additional operating support requested to support two county-based horticulture agents in partnership with counties - \$160,000/biennium)
1 FTEs Total	\$400,000 total request	

#3 Re-directed FTEs – Extension

Extension Redirected Positions			
Unit	Position Type	Redirection	Original Position
WREC	Specialist	Extension Weed Specialist	Extension Agronomist
HDFS	Specialist	Extension Food Systems Specialist	Extension Family Financial Mgmt Spec
4-H	Specialist	4-H Camp & Activities Coordinator	4-H Youth Development Specialist
County	Agent	County Horticulture Agent	County FCW Agent
County	Agent	County Urban Leadership & Civic Engagement Agent	County Urban Food and Nutrition Agent
County	Agent	Logan and Kidder County FCW Agent (new county partnership)	Logan County FCW Agent

#4 Swine Production Opportunities in ND

From 2012 to 2021, the number pigs in North Dakota ranged from 142,000 to 148,000 with a pig crop (head) ranging from 802,000 to 825,000.

Year	Total pigs	Pigs per litter	Pig crop (head)	Gross income
2017	147,000	11.13	818,000	\$57.0 million
2018	145,000	11.12	817,000	\$56.8 million
2019	142,000	10.99	802,000	\$51.4 million
2020	143,000	11.18	805,000	\$46.9 million
2021	148,000	11.15	825,000	\$68.7 million

The gross income from the pig industry was \$68.7 million in 2021. The counties in North Dakota with the most reported pigs are Towner and Ramsey. In a recent study, Stanislawski et al (North Dakota Livestock Study, NDSGA/AURI No. FS22089, June 2022) recommended that greater diversification of livestock (swine as a priority) will provide additional value to North Dakota's agricultural economy and maximize investments. Soybean is now produced in all our counties and acreage has increased by 173% since 2002. Likewise, corn acreage has increased by 266% since 2002. The availability of corn and soybean as well as other locally produced feedstock including canola and sunflower meal and beet pulp (dry and wet) will greatly benefit an increase in swine production in North Dakota.

#5 Farm and Ranch Safety Updates

Youth ages 14-15 who wish to work on a farm or ranch, other than on their own family's farm, are required by law to attend a certification course. The Hazardous Occupation Order in Agriculture (HOOA) identifies the ag related tasks that are hazardous for youth to perform for hire. The NDSU Extension course provides instruction to youth on the operation of tractors over 20 horsepower and certain hazardous machinery. They must pass the written exam and driving exam in order for them to receive their permit.

Only Extension agents and ag education teachers are allowed to certify youth in this program. Extension's Farm Safety Coordinator works with agents across the state to offer regionally based "camps" where certification is provided to youth. There are currently only two curricula that agents and ag education teachers are allowed to use, and the Extension Farm Safety Coordinator is on a team with Purdue University that created the curriculum agents use. Currently, the ND camps are some of the best camps available across the national Extension system, as other states are not even close to offering the hands-on experience that we provide in our program. In 2022, two camps were held – one in Washburn and the other in Fargo. Plans are underway to host 3 camps in 2023 in Bismarck, Fargo and Williston.

#6 4-H Youth Development Updates

Youth can join 4-H as a Cloverbud at age 5 and will remain a Cloverbud until the age of 8. Cloverbuds get involved with 4-H activities but do not participate in anything competitively until the age of 8.

In addition, youth can be a 4-H member until the age of 18, unless they serve as a ND Ambassador, where the maximum age to participate is 22.

Costs of 4-H program – Expenses are incurred each year to manage the 4-H program, and Extension works to keep costs low for participants. Unfortunately, expenses continue to rise and new programs for youth are difficult to take on due to the current costs of the program. Over 6,300 youth are in traditional 4-H clubs and 4-H reaches over 20,000 youth in North Dakota annually through in and after school programs, camps, activities and events. Extension is requesting \$120,000 in operational assistance for 4-H programs (SBARE initiative #4) to help offset some of these rising costs.

Sample event charges for 4-H members include:

- 4-H camp - \$175 (Cloverbud camp) to \$375 (I Wish I Had a Horse Camp). Fees charged cover the cost of food, lodging, supplies, and specialized trainers (i.e., I Wish I Had a Horse Camp brings 20 horses, feed, saddles to camp location with their owner/trainer who provides expertise and coaching to youth). See camp brochure attachment for more information on specific camps.
- Extension Youth Conference - \$350. Fees charged cover the costs of food, 3 nights lodging, supplies, shirts, busing to service activities in the community.
- Project Guides – all 4-H projects (Electricity, Horsemanship, Livestock Showmanship, Rocketry, Foods, Welding, Woodworking, and much more) have a project guide available for purchase by the member/family. These guides are designed for beginner, intermediate and advanced members as well as a helper's guide for volunteers. Purchasing the guides are voluntary and costs range from free to \$16/each.
- Communication Arts Contests - \$0. Expenses include judges' travel, awards.
- Consumer Choices Contests - \$0. Expenses include judges' travel, awards.
- Shooting Sports Activities – \$15. Expenses include archery, shotgun, air rifle supplies, volunteer training, awards.
- Animal science/Livestock Showmanship Activities - \$12. Contests include Livestock Judging, Livestock Quiz Bowl, Horse Judging, Hippology, Equine Demonstration/Illustrated Talks, Equine Public Speaking and Equine Quiz Bowl. Expenses include meals, awards, judges' fees, scantrons.
- STEM/STEAM programs - \$15. This includes any science related positive youth development program including the Engineering and Design Contest, robotics, coding exploration, and more.
- Costs for 4-H activities vary from \$0 to \$350 depending on the activity.

#7 Master Gardener Updates

Master Gardeners are trained and certified by NDSU, and there are currently more than 200 Master Gardeners in 37 ND counties. Master gardeners volunteered 12,500 hours (valued at \$349,654.50), and grew and collected 132,318 servings of fruits and vegetables that were provided to food pantries. Master Gardeners teach adults and children, judge 4-H achievement days and fair projects, maintain 68 community gardens, design and build pollinator gardens, certify pollinator gardens, and help provide advice on gardening at county fairs and home garden shows. They publish educational articles, serve as first detectors when trapping invasive insects such as Japanese beetle, conduct vegetable cultivar trials, and monitor rainfall amounts during a drought to help the North Dakota Agriculture Network with information that may ultimately provide state and federal assistance for producers.

Training is done for Master Gardeners in-class from Fargo and/or online from January through late April. The course content includes basic entomology and integrated pest management, diagnosing plant problems, landscape design, fruit orchard IPM, pesticide safety, plant propagation, pollinator gardens,

trees for North Dakota, weed identification and management, and wildlife management. A score of 80% or higher is required to become a Master Gardener Intern for two years. Interns are required to provide 48 hours of volunteer service over two years and to build their gardening, teaching and communication skills. After the 48-hour service, the Intern becomes a Certified Master Gardener who then volunteers for at least 20 hours and attends 10 hours of continuing education credits annually. Total course fee: \$260 (\$225 course fee, \$35 mandatory background screening). Classes started on January 20, 2023 and the current session will conclude April 21, 2023.

#8 State Soil Conservation Committee/Soil Conservation Districts

- The State Soil Conservation Committee (SSCC) was created in 1937.
 - The duties and powers of the SSCC can be found in ND Century Code 4.1-20-05
- In 1997, the SSCC became a division of NDSU Extension and no longer a standalone agency. Extension began assisting the SSCC with education and administrative duties. Extension's role is to provide education for local SCD supervisors and employees and disburse Soil Conservation District (SCD) grant funds to local districts.
 - The duties of NDSU Extension as it relates to the SSCC can be found in ND Century Code 4.1-20-06.
 - State appropriations are given to NDSU Extension for the SSCC to distribute to local SCD's in the form of grants. All money given to Extension for the SSCC goes to the local SCDs in the state. Funds received by local SCD's range from \$4400 - \$36,430/year. Funds are used for local staff salaries.
 - Extension provides operating dollars for the SSCC and 1.4 FTE to support the work of the SSCC
 - 1.0 FTE is for a Program Director and Extension Specialist. Duties include soil and water leadership education (50%) and state and district soil conservation management (50%). Management includes assisting with budget planning, coordinating and scheduling committee meetings, completing sand and gravel report, assisting in development of policy guidelines for operating, providing oversight for recordkeeping and disbursement of funds, and oversight on SCD elections.
 - Offset 35% with grant funds
 - 0.4 FTE is for administrative assistant support for the Program Director to provide recordkeeping and disburse grant funds to local SCDs.
 - NDSU Extension has secured an NRCS grant to provide local soil conservation district supervisor training (\$269,542 – ends 8/31/23) and an ND EPA 319 grant to hire two SCD Area program coordinators to work with local SCDs (\$501,211 – ends 7/31/24). These grant funds are used specifically for educational programs.
- A Legislative Management Study was conducted in 2017 and recommended maintaining the State Soil Conservation Specialist position with NDSU Extension and felt Extension has the proper expertise to administer training to SCDs and to direct the District assistance grant program.
- Current appropriation for SCD grants is \$1,211,520 for the biennium, which are distributed amongst 54 SCDs.

North Dakota Agricultural Experiment Station

Responses to questions regarding HB1020

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#1 NDAES Report: funded initiative updates from 2021-2023 requests.

1) Big Data Initiative was the #1 NDAES priority and was partially funded for \$835,000:

- 3 FTEs were funded (6 FTEs were requested) and invested into:
 - Big Data Pipeline Unit
 - North Dakota Agricultural Weather Network (NDAWN)

Big Data Pipeline Unit:

- Current projects:
 - Developing the infrastructure needed to secure and store large amounts of agricultural data with the purpose of creating data-driven solutions.
 - Creating predictive and prescriptive software tools that analyze data for researchers at the agricultural experiment station. Data tools developed include 1) experimental and plant trial design, 2) analysis of plant breeding experiments, 3) experimental queries and reporting for decision-making, and 4) machine learning predictive models for UAV data.
 - Research Extension Center agronomist software training for data collection and analysis of breeding data.
- Future projects:
 - Data integration for precision livestock applications, UAS and autonomous systems data collection and storage, data integration across farms, and climate resiliency.

North Dakota Agricultural Weather Network:

- Current projects:
 - Upgrading data processing from the NDAWN stations to the website. This improves security, efficiencies (fewer outages) and builds a foundation for future upgrades to the website and applications. The progress has gone very well and is expected to be completed before the end of 2023.
 - Designing and creating a new NDAWN website. The current website is 20 years old and is not mobile compliant and runs under outdated and incompatible code.
- Future projects:
 - Upgrade the agricultural tools available on the websites, which requires rewriting code into modern programming languages.

#2 NDAES Report: FTE breakdown for 2023-2025 requests.

1. Plant production and protection initiative		
FTE	Position	Purpose
1	Western ND Agronomy - DREC research agronomist	<ul style="list-style-type: none"> A research agronomist that focuses on issues related to crop rotations, drought concerns and other issues specific to southwest North Dakota. Research numerous diseases, insects, and weeds that are unique to the region. Developing and evaluating best management practices, so farmers do not have to test on their own farms.
2	Plant bacterial diseases - Main station scientist - Technician to assist scientist	<ul style="list-style-type: none"> Researching on new/emerging bacterial plant diseases (e.g., Goss' wilt of corn, bacterial leaf streak of wheat and barley, and Dickeya soft rot of potatoes) Researching longer-established bacterial diseases (e.g., common blight of dry bean, ring rot of potato) Diseases can cause tens of millions in damage and limit seed production in ND.
2	Plant viral disease - Main station scientist - Technician to assist scientist	<ul style="list-style-type: none"> Research into new virus diseases in the state (e.g., pea seedborne mosaic virus, new variants of existing viral diseases like potato virus Y) These viral diseases emerged and hamper efforts to breed new crop varieties and reduce producer profitability.
1	Pulse breeding - Technician to assist main station pulse breeder	<ul style="list-style-type: none"> Pulse crop breeding expertise is needed as pulses have become an increasingly important part of crop rotations throughout the state.
1	Clubroot fungus - Technician to assist LREC scientist	<ul style="list-style-type: none"> Clubroot fungus is emerging as a significant disease across the canola growing region of ND. There are over 3,000 canola growers in ND that produce 82 % of canola in the US. New renewable diesel demands will double canola needs. An NDAES technician is needed to address the research needs of the growing canola, the initiatives
	\$120,000 in operating support	<ul style="list-style-type: none"> Supports the baseline operations of the researcher (e.g., computer, office equipment).
7 FTEs total	\$1,580,000 total request	

2. Operating support		
FTE	Position	Purpose
3	Grant coordinators	<ul style="list-style-type: none"> • Scientists depend on grants to fund the vast majority their agricultural research. • Grant and compliance processes are very time consuming and greatly reduce the effectiveness of the scientist and their funding success. • Grant coordinators provide administrative support for the grant development work.
	\$720,000 Graduate research assistantships	<ul style="list-style-type: none"> • Graduate students enhance research programs by providing key labor to complete research activities, collect field data and conduct various analyses associated with research projects. • Graduate students enhance collaborations between the main campus and the REC network by providing a vital link between scientists. • These funds would support approximately 18 graduate research assistantships annually.
	\$480,000 Main Station/REC operating	<ul style="list-style-type: none"> • Costs have greatly increased for maintaining research operations, which are necessary to ensure successful research programs at the main and branch stations.
	\$400,000 Oakes Irrigation Research site operating	<ul style="list-style-type: none"> • Operating support is requested for the Oakes Irrigation Research Site (OIRS), which provides important research on irrigation strategies, high-value crops, and farming practices in southeast North Dakota. • The additional operating support will ensure the OIRS maintains its critical research activities.
3 FTEs total	\$2,194,000 total request	

3. Big data initiative		
FTE	Position	Purpose
3	Data scientist/programmers - NDAWN - Big Data Pipeline Unit	<ul style="list-style-type: none"> This initiative was partially funded last session, and the remainder is being requested this session. Programmers for the ND Agricultural Weather Network. The investment of additional personnel into the NDAWN helps reduce risk for farmers/ranchers. Data scientist for the Big Data Pipeline group. The investment into the big data pipeline greatly accelerates varietal development for breeders, making resilient varieties available to our producers sooner.
	\$200,000 in operating support	<ul style="list-style-type: none"> Operating support assists with expenses associated with research, including office, computers, and travel. Funds hardware and software licenses required for data science and programming.
3 FTEs total	\$838,000 total request	

4. Climate smart agriculture		
FTE	Position	Purpose
2	Climate Smart agricultural science - Main station scientist - Technician to assist scientist	<ul style="list-style-type: none"> Researcher on climate smart agricultural practices (e.g., water- and soil-conservation practices, strip- or no-till, cover crops, rotation diversity, and livestock integration) provide land management strategies to help farmers and ranchers reduce their risks associated with extreme weather events (e.g., drought, flooding). Research can also provide science-based information that helps farmers and ranchers realize the benefits of climate smart practices and realize the potential economic benefits from carbon markets.
	\$40,000 in operating support	<ul style="list-style-type: none"> Operating support assists with expenses associated with research, including office, computers, and travel.
2 FTEs total	\$458,200 total request	

5. (Tie) Bee and apiary research		
FTE	Position	Purpose
2	Bee and apiary research - Hettinger REC scientist - Technician to assist scientist at HREC	<ul style="list-style-type: none"> • ND produces the most honey nationally, housing 495,000 colonies or 18% of all US colonies. • ND colonies contribute to 26% of all honey produced nationally and is valued at ~\$67 million. • ND has no state research to support this economically important beekeeping industry. • Research is needed to develop greater winter hardiness, mite resistance, and increased hygiene.
	\$40,000 in operating support	<ul style="list-style-type: none"> • Operating support assists with expenses associated with research, including office, computers, and travel.
2 FTEs Total	\$458,200 total request	

5. (Tie) Precision Agriculture		
FTE	Position	Purpose
	\$600,000 in operating support	<ul style="list-style-type: none"> • The need for intelligent systems, such as sensors, artificial intelligence, robotics, and automation, is greatly increasing across all aspects of agriculture, from farm to plate. • Funds will provide researchers with equipment and tools needed to build capacity and incorporate advanced agriculture applications for improving cropping systems and livestock farms and ranches.
0 FTEs Total	\$600,000 total request	

#3 NDAES Report: 2021-202 Agronomy Seed Farm seed sales income.

Seed sales make up the majority of the ASF income.

The ASF also produces market grain from "fill in" areas around plots or from rotational ground.

The ASF also sells all the cleanout when cleaning seed (~15% cleanout) as market grain.

ASF typically produce around 60,000+ bushels of seed per year.

For the past two years:

2021: Seed Sales: \$473,789

Market Grain: \$270,759

Total Income: \$744,548

2022: Seed Sales: \$440,428

Market Grain: \$346,260

Total Income: \$786,688

#4 NDAES Report: 2021-2023 Re-direction of FTEs in NDAES.

----- AES -----			
Unit	Position type	Redirection	Original position
Agricultural & Biosystems Engineering	Faculty	Grain handling/storage, agricultural biomaterials / co-products	Wastewater quality treatment
Agricultural & Biosystems Engineering	Faculty	Controlled environmental Ag systems, remote sensing, energy efficiency, air quality, cost benefits	Animal waste mgmt./environ.
Animal Sciences	Faculty	Processed food / Evaluation of foods/meets	Meat science beef production
Microbiological Sciences	Faculty	Agribiome/Microbiome - Pests	Food Safety
Plant Sciences	Faculty	Wheat multiomics – systems approach to combining multiple biological data to coherently match geno-, pheno-, and enviro-type relationship or association.	Wheat cytogenetics – traditional chromosomal genetics
Plant Sciences	Technician	Horticulture	Wheat cytogenetics
Plant Pathology	Faculty	Soybean pathology	Biochemistry
School of Natural Resource Sciences	Faculty	Climate smart approaches natural landscapes	Range science ecosystem
School of Natural Resource Sciences	Faculty	Climate smart approaches agriculture	Soil management

#5 NDAES Report: Central Grasslands Research Extension Center (CGREC) 2021-2023 funded capital projects.

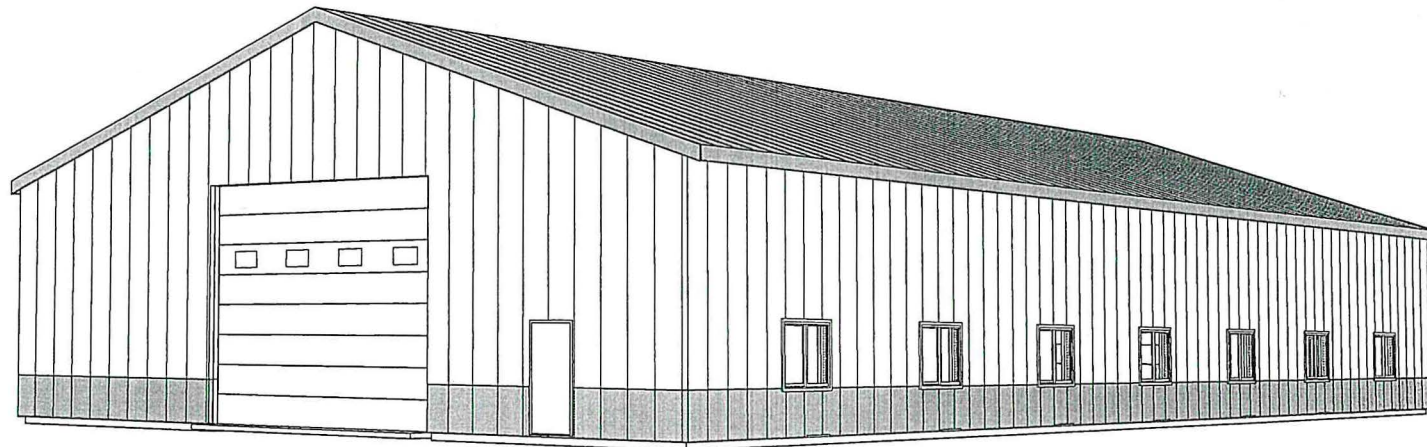
Request the following:

- \$525,000 of strategic investment and improvements fund appropriated in 2021-2023 for capital projects at the CGREC be extended and remain available during the biennium beginning July 1, 2023 and ending June 30, 2025.
- Authorize the CGREC to use up to \$175,000 in special funds to pay for any additional costs related to the REC director's residence project funded in 2021-2023.

NDSU AG STORAGE BUILDING

CONSTRUCTION DOCUMENTS

1/24/2022



ICON

WWW.ICONARCHITECTS.COM

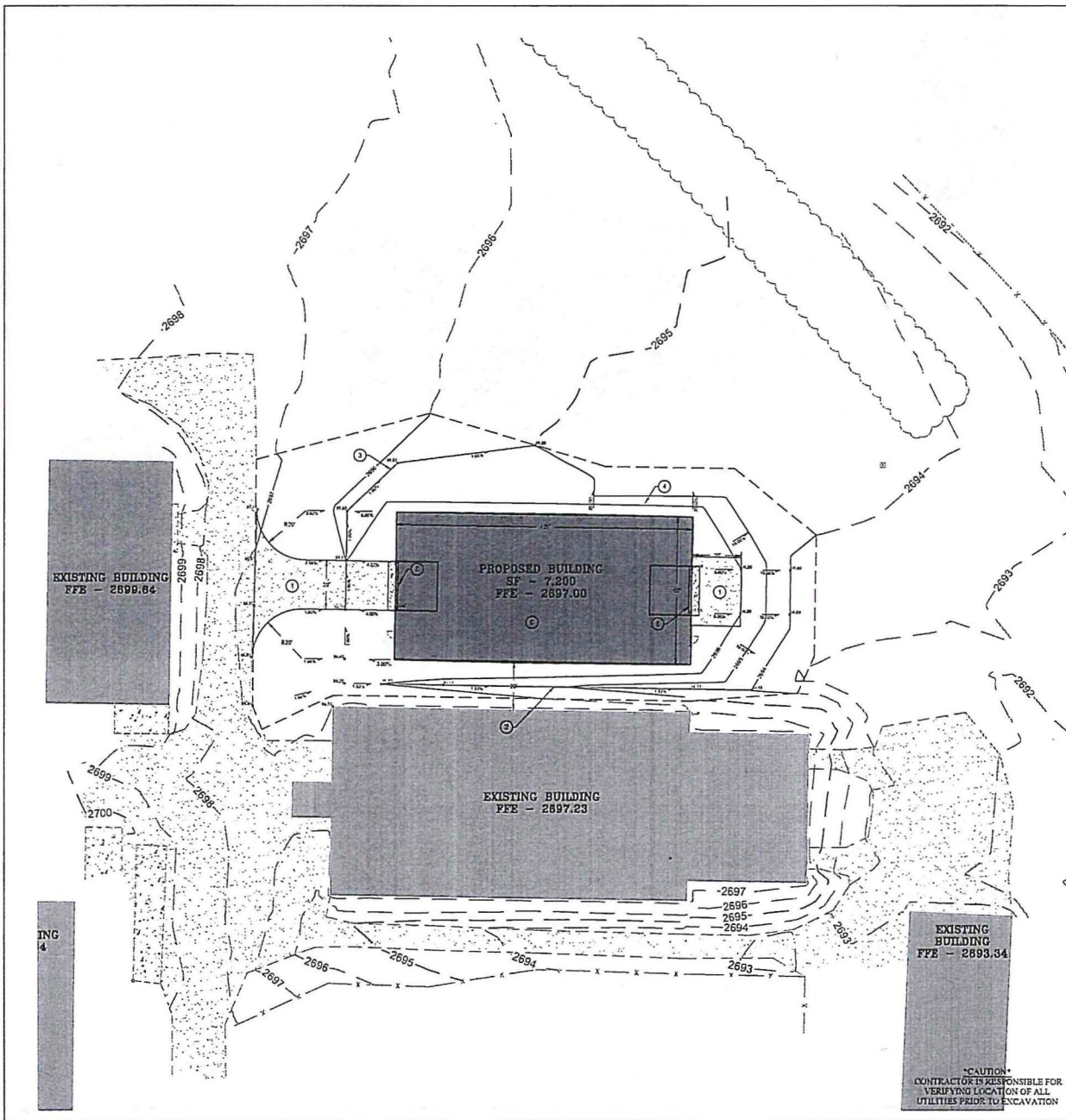
AG STORAGE


P.O. Box 1377

Hettinger, ND 58639









JOB NO. 21-063 | 01/24/22

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 SCALE: 1" = 20'
 0 20 40
 SURVEY INFO: VERT. DATUM: NAVD83
 HORIZ. DATUM: 1983 STATE PLANE, ND SOUTH (3302)

LEGEND

	PROPOSED BUILDING		CONSTRUCTION LIMITS
	PROPOSED GRAVEL		PROPOSED CONTOUR
	PROPOSED CONCRETE PAVEMENT		
	1.50% PROPOSED SLOPE		
	ELEV		
	PROPOSED SPOT ELEVATION (FLOWLINE)		

1. INSTALL 6" GRAVEL
2. CREATE DRAINAGE SWALE BETWEEN BUILDINGS FOR POSITIVE DRAINAGE
3. CREATE DRAINAGE SWALE FOR POSITIVE DRAINAGE
4. 4:1 SLOPE MINIMUM
5. CONCRETE PAD - SEE STRUCTURAL PLANS
6. INSTALL 12" GRAVEL WITHIN BUILDING - GRADING SHALL BE LEVEL AT 2897.00

GENERAL NOTES:

SPECIFICATIONS: All work shall conform to the Project Manual and Specifications as supplemented by or modified by the following plan notes.

PERMITS: The Contractor is required to obtain all permits that may be required prior to construction. The Contractor will also be required to complete and file a Notice of Intent (NOI) with the North Dakota Dept. of Health Division of water quality.

BENCHMARK: Benchmarks and survey control points for this project will be established by the Engineer. Care shall be taken as to not cover, remove, damage, obscure, move or destroy set benchmarks, nails, nails, property pins, or other survey monuments. Any damaged or destroyed control points will be replaced by the Engineer at the Contractor's expense.

PROPOSED CONTOURS: The final contours shown on the plan represent the finished surface to be topsoil, pavement, surfacing, storm drains, etc. The Contractor is to make allowances to require for topsoil and pavement surfaces when completing the site grading.

SUBGRADE PREPARATION & TRENCHING DENSITY REQUIREMENTS: Areas to receive Fill, Gravel Base, Pavement, and the bottom of cut areas shall be scarified to a minimum depth of 6 inches specified and compacted. Contractor shall be required to maintain subsoil areas by watering the soil until the specified density and uniform moisture content are achieved. Fill material shall be placed in lifts not exceeding eight (8) inches loose thickness. All Trenches, Fills, and Gravel base shall be compacted to 90% Modified density with a moisture content between +3% to -3% optimum moisture as per ASTM D1557.

SURFACE GRAVEL: Surface aggregate shall be class 13 per MDDOT Specifications or approved equal. Aggregate surface material shall be compacted to 90% Modified density with moisture between +3% to -3% optimum moisture as per ASTM D1557. Surface Gravel shall be 6 inch depth.

TESTING: The Contractor shall provide at its expense the necessary testing and inspection services required by the plans and specifications. The Contractor shall employ an accredited independent testing laboratory certified through the American Association of State Highway and Transportation Officials (AASHTO). The Contractor shall be responsible for scheduling tests according to specifications and shall supply test results to the Owner, Architect, and Project Engineer.

- Density testing shall be to 90% Modified density with a moisture content between +3% to -3% optimum moisture as per ASTM D1557.
- Testing Frequency shall be as follows:
 - Fill Placement 1 passing test per 500 CY fill placed.

TOPSOIL & SEEDING:

- 6 inch thick topsoil shall be installed in all disturbed areas that do not receive concrete, asphalt, or gravel.
- Topsoil shall be clean, free of stones, weeds, and other undesirable debris. Topsoil shall be cultivated or diked to a depth of approximately 3 inches. Break up lumps and clods into pieces less than 1 inch diameter.
- Topsoil in all areas shall be allowed for positive drainage, and have a smooth uniform appearance.
- Topsoil placed on slopes shall be treated to minimize erosion. Trailing vehicle is to be operated up and down the slope to leave behind horizontal depressions in the soil. Care for slope tracking shall be considered according to the project.
- Fertilizer shall be 10-10-10 mixture applied at a rate of 40 lbs per Acre. Fertilize soil prior to seeding process using appropriate application process. Fertilizer shall not be mixed with the seed, but it may be applied at the same time as the seed if a suitable fertilizer placement on the equipment is used. All tests for fertilizing shall be considered satisfactory by the soil test. Seeding per Acre (AC)
- Seeding shall be performed early during the season when satisfactory results can be expected.
- Seed shall be first seedbed to a depth of 2" to 3" depth, at a rate of 100lbs per acre pure live seed.
- Seed mix shall be 50% Fescue Crested, 30% Chew Fescue, and 20% Perennial Ryegrass or approved equal. When dormant seeding in late fall, 20 pounds of oats or rye seed per acre shall be added to the mixture as a nurse crop. All seed shall be free of all prohibited noxious weeds. Seed which has become wet, moldy, or otherwise damaged shall not be acceptable.
- Straw-hitch shall be utilized in all grass planting areas. Straw-hitch shall be straw from cereal grain or maize lot. The hitch shall be free of seed bearing and all noxious weeds as indicated by the North Dakota Department of Agriculture. Hitch that is wet, moldy, smelly, rotted, dirty or ground will not be accepted. The straw or furrows made by the hitch tiller shall be spaced 6-12 inches apart with a penetration depth of 2-3 inches.
- Straw-hitch shall be placed at a rate of 2 tons per acre. Do not perform ending operations when the sustained wind velocity is greater than 15 miles per hour. A density shall be by practicing the hitch into the soil 3 inches, with ends of the hitch exposed above the soil surface.

EXISTING BUILDING
 FFE - 2893.34
 CAUTION
 CONTRACTOR IS RESPONSIBLE FOR
 VERIFYING LOCATION OF ALL
 UTILITIES PRIOR TO EXCAVATION

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 4215 Old Hwy 101
 Mandan, ND 58554
 (701) 663-9184 Office
 (701) 702-0658 Cell

102 US-12
 Hettinger, ND 58639

NDSU Ag Storage Building

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 Hettinger, ND 58639

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PROPOSED CONDITIONS

SHEET

C200

PRELIMINARY
 NOT FOR CONSTRUCTION

GENERAL CONSTRUCTION NOTES:

- 1. WORK SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE AS APPROVED BY THE STATE OF NORTH CAROLINA...
2. REFERENCE STANDARDS...
3. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS...
4. SPECIFICATIONS AND DETAILS SHALL HAVE A PRECEDENCE OVER GENERAL NOTES...
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION...
6. TEMPORARY BRACING AND SHORING...
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION...
8. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS THE FINAL DESIGN LOADS...
9. MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ALL OPENINGS AND PENETRATION THROUGH THE STRUCTURAL MEMBERS...

CONCRETE NOTES:

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) CODES AND ALL APPLICABLE STATE AND LOCAL CODES...
2. CAST-IN-PLACE CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
3. CONCRETE MIX DESIGN SHALL BE BY AND IN ACCORDANCE WITH THE LABORATORY...
4. CAST-IN-PLACE CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
5. CAST-IN-PLACE CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
6. REINFORCING STEEL SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
7. WELDED REINFORCING STEEL SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
8. WELDED REINFORCING STEEL SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
9. WELDED REINFORCING STEEL SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...
10. WELDED REINFORCING STEEL SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS...

WOOD FINISHING NOTES:

- 1. WOOD AND TRUSS JOINTS SHALL CONFORM TO PROJECT SPECIFICATIONS...
2. WOOD CONSTRUCTION SHALL CONFORM TO CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE...
3. WOOD CONSTRUCTION SHALL CONFORM TO CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE...
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10. WOOD CONSTRUCTION SHALL CONFORM TO CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE...

POST FRAME BUILDING NOTES:

- 1. POST FRAME BUILDING CONSTRUCTION DESIGN SHALL CONFORM TO THE FOLLOWING...
2. POST FRAME BUILDING CONSTRUCTION DESIGN SHALL CONFORM TO THE FOLLOWING...
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10. POST FRAME BUILDING CONSTRUCTION DESIGN SHALL CONFORM TO THE FOLLOWING...

APPROVAL / SHOP DRAWING NOTES:

- 1. CONTRACTOR TO FURNISH COMPLETE AND DETAILED APPROVAL DRAWINGS...
2. APPROVAL DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER...
3. APPROVAL DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER...
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Table with columns for RESPONSE LEVELS, EXPOSURE CATEGORY, and WIND SPEED. Includes values for Risk Category, Importance Factor, and Spectral Response Coefficients.

Table with columns for REINFORCING STEEL SPICE LENGTHS. Includes columns for CONCRETE STRENGTH, TYPE OF SPICE, and SPICE LENGTH.

Table with columns for MINIMUM DIMENSIONS OF FASTENERS (INCHES). Includes columns for NAIL TYPE, D, W, H, and U.

Table with columns for MINIMUM LUMBER DESIGN VALUES (PSI), U.O.N. Includes columns for SPECIES, USE (SUALS), Fb, Ft, Fv, Fc, Fd, E.

ERUCTION AND BACKFILL NOTES:

- 1. ERUCTION, BACKFILLING AND COMPACTION PROCEDURES SHALL BE DETAILED IN ACCORDANCE WITH INDUSTRY PRACTICES...
2. EXCAVATION SHALL BE FULLY INSULATED AND PROTECTED FROM WEATHER...
3. FOUNDATION EXCAVATIONS SHALL BE EXCAVATED TO PROPER DEPTH AND LEVEL...
4. BACKFILL SHALL BE PLACED IN TRENCHES WITH EACH LAYER OF THE FOUNDATION WALL TO MAINTAIN STABILITY OF THE FOUNDATION WALLS...
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DRILLED PIER NOTES:

- 1. DRILLED PIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING...
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ENGINEERED WOOD NOTES:

- 1. ALL ENGINEERED WOOD PRODUCTS SHALL COMPLY WITH THE AMERICAN WOOD PRESERVE ASSOCIATION (AWPA) STANDARDS...
2. ENGINEERED WOOD PRODUCTS SHALL COMPLY WITH THE AMERICAN WOOD PRESERVE ASSOCIATION (AWPA) STANDARDS...
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10. ENGINEERED WOOD PRODUCTS SHALL COMPLY WITH THE AMERICAN WOOD PRESERVE ASSOCIATION (AWPA) STANDARDS...

SHOP-FABRICATED WOOD TRUSSES NOTES:

- 1. TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH THE FOLLOWING...
2. TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH THE FOLLOWING...
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10. TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH THE FOLLOWING...

GENERAL NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE...
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222 EAST MAIN STREET
MANASSAS, ND 58554
KON ARCHITECTURAL GROUP
222 East Main Street, Suite B
Manassas, ND 58554
(701) 751-1628 Fax
(701) 751-1628 Cell

ELECTRICAL
Pratt Engineering
619 Riverside Dr., Suite 205
Bismarck, ND 58504
(701) 258-3381 Office
(701) 258-5537 Fax

Independent Land Surveying & Eng.
4215 Old Red Tail
Manassas, ND 58554
(701) 652-2148 Office
(701) 220-8955 Cell

AG STORAGE
NDSU Hettinger Research Extension
Center
P.O. Box 1377
Hettinger, ND 58639

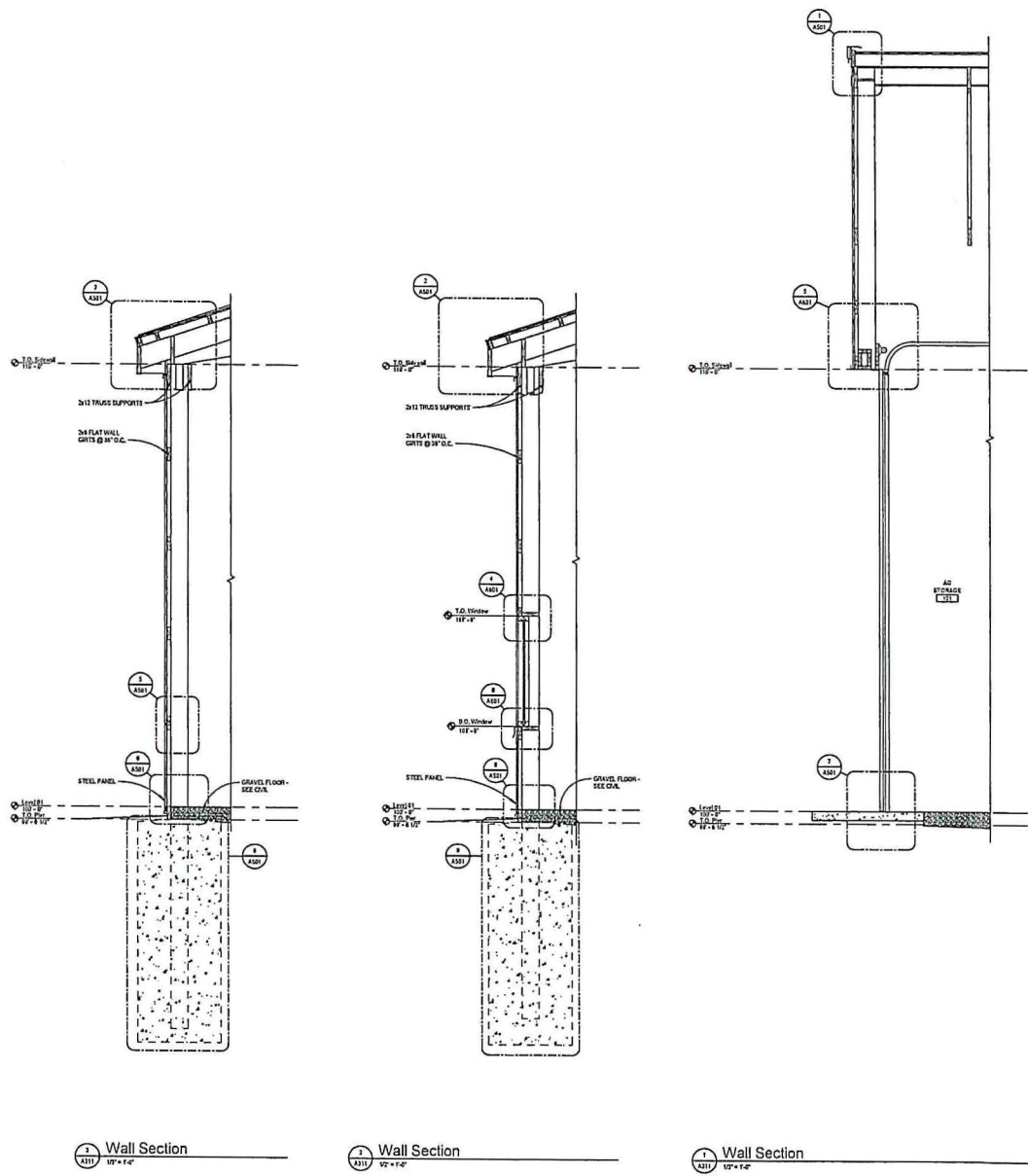
Drawing History
No. Description Date
Construction Documents 10/12/2022

DRAWN BY: MJZ JUN 21-2023

Structural Notes
SHEET
S001



1/20/2022 4:13:34 PM E:\158221\CDL - NDSU Ag Storage Building\1582 - NDSU Ag Storage Building.rvt



1 Wall Section
1/2" = 1'-0"

2 Wall Section
1/2" = 1'-0"

1 Wall Section
1/2" = 1'-0"



222 EAST MAIN STREET
SUITE B
MANDAK, ND 58554
P: 701.781.8888 F: 701.781.1998
WWW.ICONARCHITECTURAL.COM

STRUCTURAL
ICON Architectural Group
222 East Main Street, Suite B
Mandan, ND 58554
(701) 781-8888 Office
(701) 781-1998 Fax

MECHANICAL

ELECTRICAL
Prairie Engineering
619 Riverwood Dr. Suite 205
Bismarck, ND 58504
(701) 228-3493 Office
(701) 258-6437 Fax

CIVIL
Independent Land Surveying & Eng.
4215 Old Red Trail
Mandan, ND 58554
(701) 683-9184 Office
(701) 220-0556 Cell

AG STORAGE
NDSU Hettinger Research Extension
Center
P.O. Box 1377
Hettinger, ND 58639

Drawing History

No.	Description	Date
1	Construction Documents	8/15/2022

DRAWN BY: KS, CAI JUN 21-2023



Wall Sections
SHEET
A311

23.0249.01001
Title.

Prepared by the Legislative Council staff for
Senator Dwyer

January 23, 2023

PROPOSED AMENDMENTS TO HOUSE BILL NO. 1020

Page 4, after line 12, insert:

"SECTION 3. APPROPRIATION - MAIN RESEARCH CENTER - NESSON VALLEY IRRIGATION RESEARCH SITE - ONE-TIME FUNDING. There is appropriated out of any moneys in the general fund in the state treasury, not otherwise appropriated, the sum of \$1,700,000, or so much of the sum as may be necessary, to the main research center for the purpose of constructing a new facility at the Williston research extension center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The facility must be located at the Nesson Valley irrigation research site and include office space, laboratory space, heated shop space, and a conference room. The facility must be used to support ongoing educational efforts for growers related to irrigation and high-value crops and to host meetings to support expansion of irrigation, food processing, livestock industries, and other irrigation enhancement opportunities. This funding is considered a one-time funding item."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

This amendment appropriates \$1.7 million of one-time funding from the general fund for a new facility at the Williston Research Extension Center's Nesson Valley Irrigation Research Site.

Structural Organization of Soil Conservation Districts

The Soil Conservation District is a crucial member of a three-way partnership of federal, state, and local agencies. The continuation of this working relationship is vital to the work of soil and water conservation. The partnering agencies in the above chart are integral working parts of a multi-agency team effort to protect and preserve natural resources.

Districts are generally organized in a similar manner. The board of supervisors provides overall supervision and sets policy assuring that the district performs tasks required by law and memorandums of understanding.

The everyday business of running a district is handled by the district staff. The district manager is responsible for handling administrative details and office operations on the board's behalf. Managers may also assume technical responsibilities. The district technician is responsible for providing technical support, plan reviews, etc. Each report to the board of supervisors and provides the board with the information it needs to make policy and planning decisions.

Soil Conservation District Supervisors

The Soil Conservation District is considered a political subdivision, organized under the North Dakota Soil Conservation Districts Law enacted in 1937 and as later amended. They are organized by vote of the people within the district and are managed by a board of supervisors, also elected by the people.

Soil Conservation Districts are responsible for carrying out a program of soil and water conservation with all cooperating rural and urban residents within the district boundaries.

District Supervisors Shall Have the Power To: (N.D.C.C. 4.1-20 Conservation Law)

- Appoint two additional supervisors. (4.1-20-18)
- Employ temporary and permanent employees. (4.1-20-20)
- Seek legal services from the County State's Attorney or Attorney General. (4.1-20-20)
- Conduct surveys, investigations and research. (4.1-20-24)
- Conduct demonstration projects. (4.1-20-24)
- Carry out preventive and control measures within the district. (4.1-20-24)
- Cooperate or enter into agreements. (4.1-20-24)
- Obtain options upon or acquire real or personal property. (4.1-20-24)
- Make available machinery, equipment, seeds, and seedlings. (4.1-20-24)
- Construct, improve and maintain structures. (4.1-20-24)
- Develop comprehensive plans for the conservation of soil resources. (4.1-20-24)

- Administer and act as agent for the United States in any soil erosion, erosion control, or erosion prevention project; accept donations, gifts and contributions in money, services, and materials. (4.1-20-24)
- Sue and be sued in the name of the district. (4.1-20-24)
- Have a seal. (4.1-20-24)
- Have perpetual succession. (4.1-20-24)
- Make and execute contracts. (4.1-20-24)
- Make, amend and repeal, rules and regulations. (4.1-20-24)
- Require contributions from beneficial operations performed by a district on lands not controlled by this state (4.1-20-24)
- Expend moneys for education, promotion, and recognition activities. (4.1-20-24)
- To levy taxes. (4.1-20-24)
- Formulate land use regulations. (4.1 -20-25) through (4.1-20-37)
- District Supervisor Compensation. (4.1-20-18)

ND Century Code website <https://www.legis.nd.gov/general-information/north-dakota-century-code>

District Supervisors Responsibilities and Duties:

- Furnish to the State Soil Conservation Committee (SSCC), upon request, copies of any ordinances, rules, regulations, orders, contracts, or other documents they shall adopt or employ, and such other information concerning their activities as the SSCC may require.
- Provide for the execution of surety bonds for all employees and officers. N.D.C.C. Chapter 4.1-20-22.
- Provide for keeping of a full and accurate record of all proceedings, resolutions, regulations, and orders issued or adopted by them. N.D.C.C. Chapter 4.1-20-22.
- Maintain complete and accurate records of receipts and disbursements of the district and provide for an annual audit N.D.C.C. Chapter 4.1-20-22)
- Prepare an annual financial statement at the close of the business year and forward a copy to the SSCC.
- Attend and participate in regular monthly meetings and attend district functions.
- Keep the long-range planning current to meet total resource development needs of your district. The long range program should be reviewed annually.
- Develop a District Planning Process which provides for carrying out action projects of highest priority that seek to accomplish the goals and objectives of the long range program. Refer regularly to the District plan to see that activities are carried out.
- Be informed on the North Dakota Soil Conservation Districts Law and the administrative functions of the State Soil Conservation Committee. Be informed on your State Association, NACD, and the North Dakota Conservation District Employees Association. Keep abreast of changes in the law, operational policies and program concepts of importance to the district.

- Develop district conservation needs and set district priorities in providing technical assistance to landowners and operators for a complete coordinated soil conservation program for all rural and urban residents.
- Invite agencies assisting in carrying out the district program to meet with the District Board to consider mutual problems. Keep these organizations and the general public informed of progress, objectives and district needs.
- Develop a realistic annual budget and manage the funds of the district by anticipating project activities and board expenditures for the coming year.
- Approve bills to be paid by the District
- Carry out a dynamic information and education program to include the general public, students, producers and others focusing on resource conservation, programs and services, district activities and other pertinent information This can be accomplished in part by printing and distributing annual reports, district newsletters, and by utilizing other news media.
- Conduct conservation tours, demonstrations, and support educational meetings
- Cooperate with fellow board members in establishing district policies.
- Know the functions of other agricultural agencies that operate in your district.

District Supervisors / District Employees - A large portion of the board's responsibility lies with their employees. The board is responsible for not only hiring district staff, but also supporting them and ensuring they have the means to perform their jobs, the equipment and knowledge. Providing guidance, support, and reviewing performance is a key component of the Board/Employee relationship. District staff are the customer facing link between the board and their constituents, ensuring they are properly trained and have the resources available to perform their duties, including professional development is vital.

Dealing with employees is not an easy task and one where a lot of consideration must be given to the well-being of the employee which is part of the well-being of the district. Board members have to decide on the wages, benefits and requirements of their employees. This is an area where state and federal laws must be taken into consideration.

The board does rely on their managers and employees to keep them informed on the current events affecting the district, but this by no means releases them from their obligation of being involved and informed by other sources. Communication between the board members, the employees and the landowners is critical in all areas.

Remember the conservation district supervisor's obligations as a public official. Any supervisor who finds it is impossible to fulfill these obligations because of poor health, lack of time, or any other reason, should resign from office and make way for an individual who can perform effectively.

District Supervisor Removal - After notice given and hearing held in accordance with N.D.C.C. Chapter 28-32, a supervisor of a Soil Conservation District maybe removed from office by State Soil Conservation Committee. N.D.C.C 4.1-20-18. Supervisors may also be removed by a vote of district residents, in the same matter as other locally-elected officials.

District Supervisor Compensation - Upon a majority vote of the supervisors, the supervisors of a soil conservation district are entitled to receive compensation of up to sixty-two dollars and fifty cents for attending each regular or special meeting or for attending other meetings or events in the performance of their official duties.

Supervisors of soil conservation districts are entitled to receive travel and subsistence expenses necessarily incurred in attending district, state, or other meetings. The compensation and all other expenses including travel incurred by district supervisors while transacting district business must be paid from district funds. N.D.C.C. Chapter 4.1- 20-18

District Officers – During the board's January meeting, the board of supervisors should hold an election for the various district board's officers; chair; vice-chair; secretary; and treasurer; or secretary-treasurer.

- An active district chair is the key to a successful board of supervisors meeting, it is the responsibility of the chair to accept the leadership roles, involving each member in the discussion of issues and programs of the district, starting meetings promptly and closing meetings after all business has been completed.
- The State Soil Conservation Committee recommends that, no one elected or appointed soil conservation district supervisor should serve as Chair of their district board for more than two consecutive years.
- District Reorganization Form - (SFN 11-20). Your district reorganization meeting should be held as soon as possible after the first of the year. Please provide the State Soil Conservation Committee with this information by March 1. The reorganization form is available on-line.
- District Inventory - The soil district board may set a minimum value on equipment that gets logged on the inventory list. The inventory list should be reviewed annually and a walk through done with a supervisor to make sure inventory is accountable. Inventory information is due March 1st.
- Each meeting month the Chair should meet with the District Staff and District Conservationist prior to the scheduled meeting and work out a tentative agenda which is sent to each board member and other individuals invited with their notification of the meeting and post notice of the meeting as required by law. N.D.C.C. Chapter 44-04-17.1

The Attorney General's office has a great resource on Guidelines for Open Meetings at: <https://attorneygeneral.nd.gov/sites/ag/files/documents/Open-Meetings-Guide.pdf>

Soil Conservation District Assistance Funds – The ND Legislature may appropriate state funds each session to help defray costs of the local SCDs for conservation activities. These funds are used to cover salaries of SCDs employees who plan and design local soil conservation projects. The State Soil Conservation Committee approves the allocations and NDSU Extension notifies each district of their funding allocation, directions for reimburse them for salary expenditures through the NDSU Agriculture Budget Office.

District Audit and Financial Report – The district supervisors should arrange for the Annual Audit of the account of receipts and disbursements of their district as required by the Soil Conservation Districts Law N.D.C.C. Chapter 4-1-20-22.

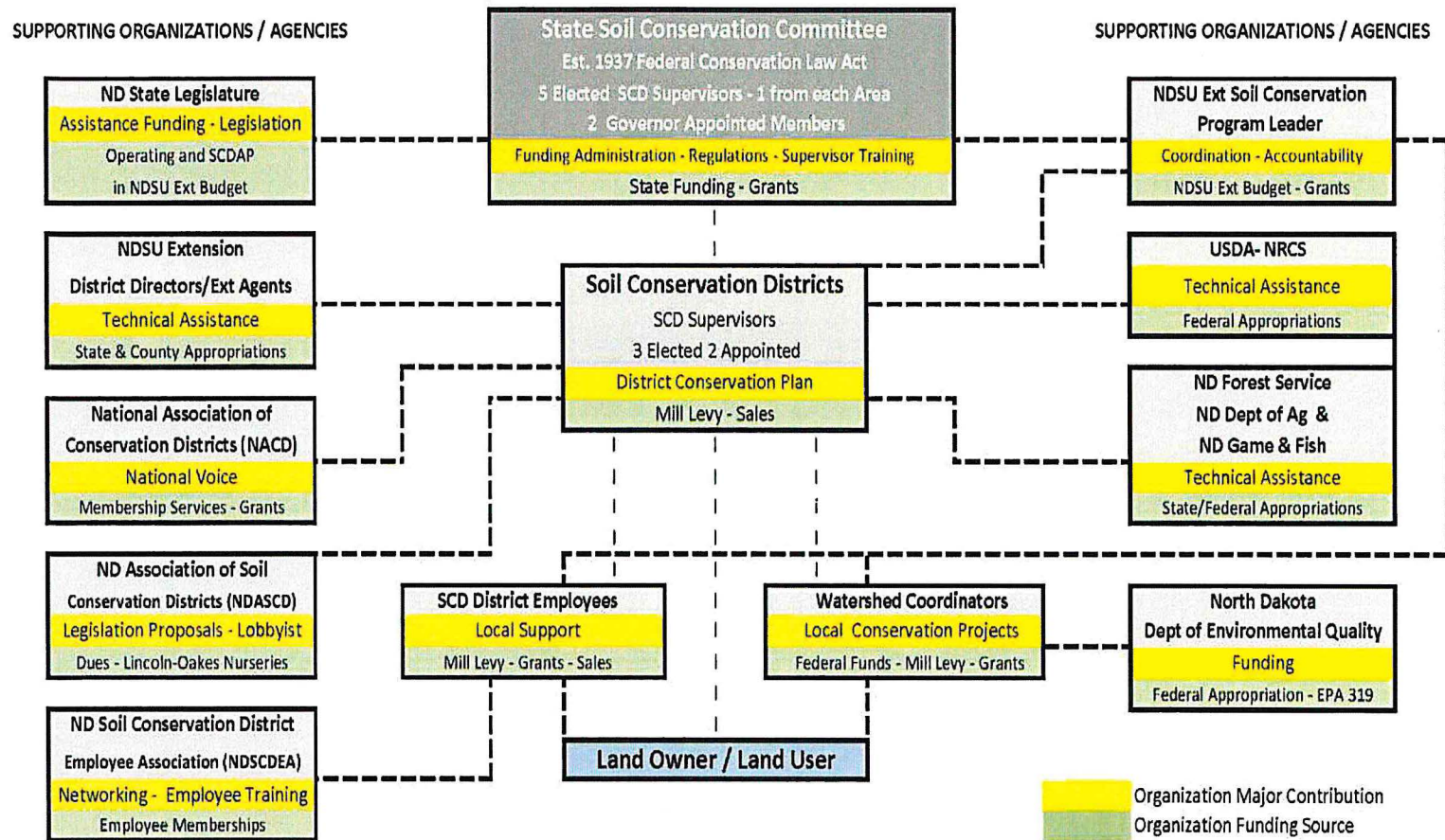
Due to the 55th Legislative Assembly, Soil Conservation Districts were added to the list of political subdivisions to be audited by the State Auditor. The law requires the State Auditor, a Certified Public Accountant, or a License Public Accountant to audit the districts every two years.

The State Auditor may in lieu of conducting an audit every two years, require an annual financial report from districts with less than \$750,000 in annual receipts. Districts are required to complete the Annual Financial Report for the year by December 31. A template for this report can be found on the State Auditor's website, and their local government division can be of assistance.

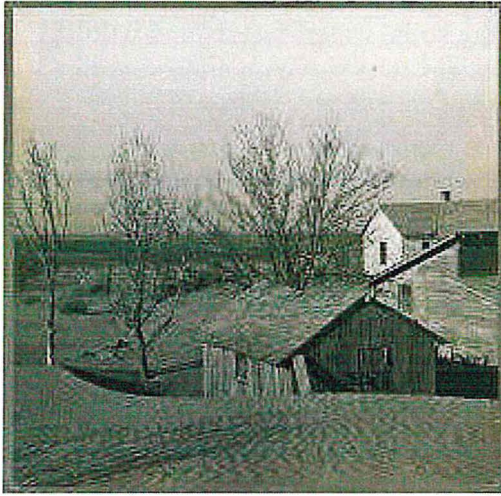
The district needs to forward the completed report by June 1 to:
State Auditor's Office,
600 E. Boulevard Ave. - Dept. 117
Bismarck, ND 58505.

The State Auditor may also charge districts a fee not exceeding \$50 an hour for the cost of reviewing the report.

ND Structural Organization Soil Conservation Districts



History of Soil Conservation



While soil conservation districts had their baptism by fire following the devastation of the 1930s Dust Bowl, the movement got its beginning decades earlier. It was championed by Hugh Hammond Bennett, a young college graduate who went to work as a soil surveyor for USDA in 1905.

Now recognized as the “father of soil conservation,” Bennett spent 20 years trying to bring attention to the nation’s eroded soils and the need for conservation. Lawmakers finally started to listen in the late 1920s, and the Dust Bowl — a drought that led to massive dust storms and topsoil losses across a swath land reaching

from Texas to Canada — fueled the movement.

The groundwork for the Dust Bowl was laid in the early 1900s when high demand for wheat, generous federal farm policies and a series of wet years caused a land boom in the Great Plains. New machinery made for easier and faster farming, and vast tracts of native grasslands in the Plains — more than 100 million acres — were plowed to plant crops, according to the USDA.

But the stock market crashed in 1929, and the Great Depression followed. Wheat prices plummeted, and farmers in the Plains plowed up even more land to try to recoup their losses. Prices dropped further, and drought conditions set in, causing widespread crop failure. Many farmers abandoned their fields to find work elsewhere, leaving behind a landscape that had changed from protective grassland to exposed soil.

The result was large dust storms that blew exposed soil as far as the East Coast. Bennett seized the opportunity to explain the cause of the dust storms to Congress and push for a permanent soil conservation agency. The Soil Conservation Service was created in 1935, and Bennett served as its first chief. Its predecessor, the temporary Soil Erosion Service — also led by Bennett — had established demonstration projects to show landowners the benefits of conservation. In 1994, Congress gave the Soil Conservation Service a new name: the Natural Resources Conservation Service.

As early as 1935, USDA managers began to search for ways to extend conservation assistance to more farmers, believing the solution was to establish democratically organized soil conservation districts to lead the conservation effort at the local level.

To that end, USDA drafted the Standard State Soil Conservation District Law, which President Franklin Delano Roosevelt sent to the governors of all states in 1937. The first conservation district was organized in the Brown Creek watershed of North Carolina that same year.

Across the United States, nearly 3,000 conservation districts—almost one in every county—work directly with landowners to conserve and promote healthy soils, water, forests and wildlife. NACD represents these districts and the more than 17,000 citizens who serve on conservation district governing boards.

Conservation districts may go by different names—”soil and water conservation districts,” “resource conservation districts,” “natural resource districts” and “land conservation committees”—but they all share a single mission: to coordinate assistance from all available sources—public and private, local, state and federal—to develop locally-driven solutions to natural resources concerns.

In addition to serving as coordinators for conservation in the field, districts:

- Implement farm, ranch and forestland conservation practices to protect soil productivity, water quality and quantity, air quality and wildlife habitat;
- Conserve and restore wetlands, which purify water and provide habitat for birds, fish and other animals;
- Protect groundwater resources;
- Assist communities and homeowners in planting trees and other land cover to hold soil in place, clean the air, provide cover for wildlife, and beautify neighborhoods;
- Help developers control soil erosion and protect water and air quality during construction; and
- Reach out to communities and schools to teach the value of natural resources and encourage conservation efforts.

For more information view - YouTube – Hugh Hammond Bennett: The Story of America’s Private Lands Conservation Movement.

**North Dakota
Soil Conservation
Districts**

AREA I

North Central SCD
(Benson County)
Cavalier County SCD
Eddy County SCD
Foster County SCD
Grand Forks County SCD
Nelson County SCD
Pembina County SCD
Ramsey County SCD
Towner County SCD
Walsh County SCD
Wells County SCD

AREA II

Barnes County SCD
Cass County SCD
James River SCD
(Dickey County)
Griggs County SCD
LaMoure County SCD
Ransom County SCD
Richland County SCD
Wild Rice SCD
(Sargent County)
Steele County SCD
Traill County SCD

AREA III

Mouse River SCD
(Bottineau County)
Turtle Mountain SCD
(Bottineau County)
Burke County SCD
Divide County SCD
North McHenry County SCD
South McHenry County SCD
Mountrail County SCD
Pierce County SCD
Renville County SCD
Rolette County SCD
Ward County SCD

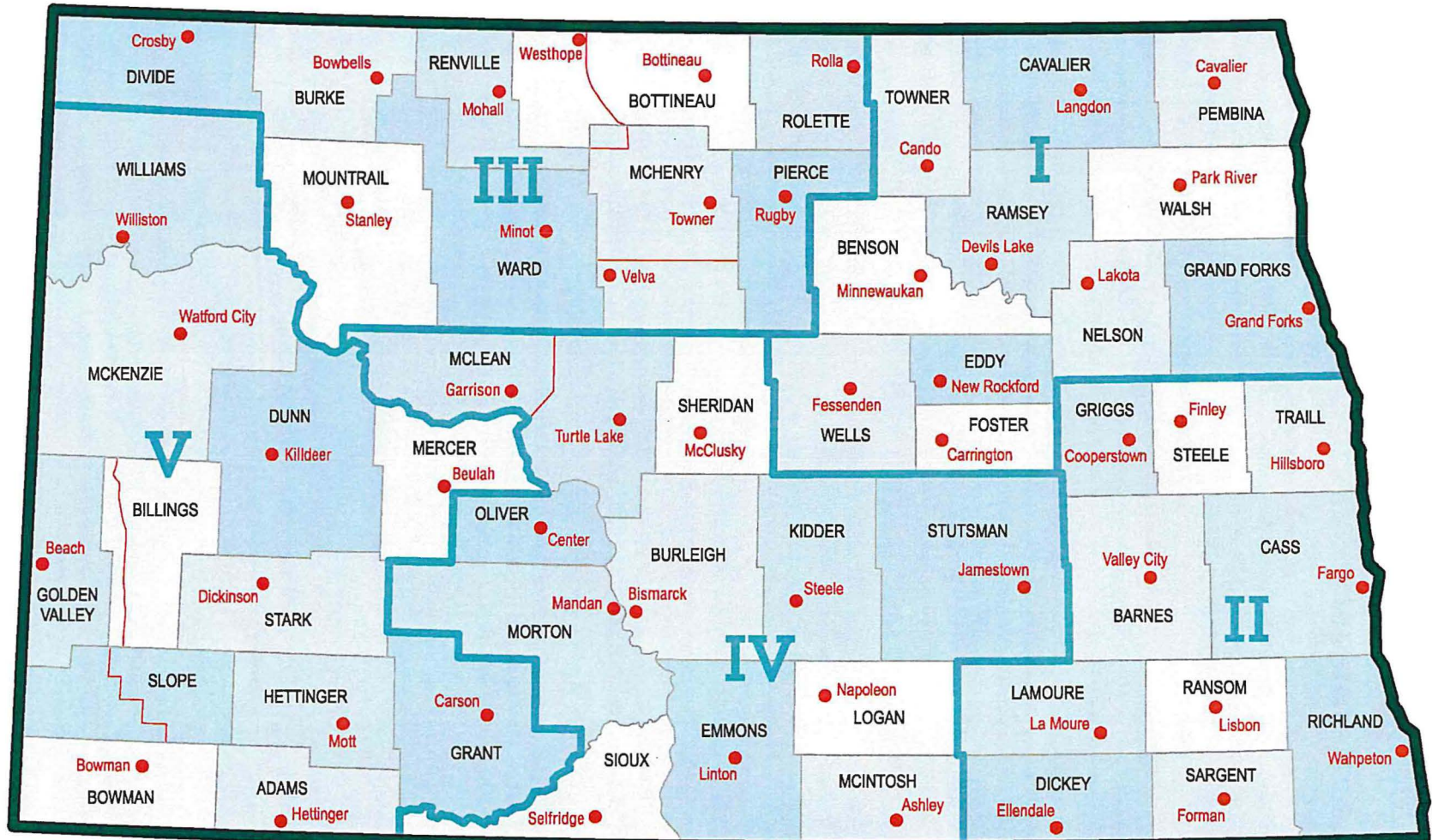
AREA IV

Burleigh County SCD
Emmons County SCD
Kidder County SCD
Logan County SCD
McIntosh County SCD
South McLean County SCD
West McLean County SCD
Morton County SCD
Oliver County SCD
Sheridan County SCD
Cedar SCD
Stutsman County

AREA V

Adams County SCD
Bowman-Slope SCD
Dunn County SCD
Golden Valley SCD
Grant County SCD
Slope-Hettinger SCD
McKenzie County SCD
Mercer County SCD
Stark and Billings SCD
Williams County SCD

Soil Conservation Districts in North Dakota



NDSU

EXTENSION

— Shared SCD/County Boundary
— SCD Boundary

— SCD Area Boundary
● SCD Office

County commissions, North Dakota State University and U.S. Department of Agriculture cooperating. NDSU does not discriminate in its programs and activities on the basis of age, color, gender expression/identity, genetic information, marital status, national origin, participation in lawful off-campus activity, physical or mental disability, pregnancy, public assistance status, race, religion, sex, sexual orientation, spousal relationship to current employee, or veteran status, as applicable. Direct inquiries to Vice Provost for Title IX/ADA Coordinator, Old Main 201, NDSU Main Campus, 701-231-7708. ndsu.eoaa@ndsu.edu. This publication will be made available in alternative formats for people with disabilities upon request, 701-231-7861.

NDASCD OFFICER TEAM

President..... Kent Pedersen
Vice President.....Monte Bloms
Secretary..... Steve Gilje
Treasurer.....Rocky Bateman

NDASCD Contact Information

3310 University Drive
Bismarck, ND 58504
(701) 223-8518

Rhonda Kelsch – NDASCD Operational Officer
(701) 321-0627
Rhonda@lincolnoakes.com

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Area I.....Jon Iverson, Langdon
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Area II.....Kelli Bowen, Casselton
Area III.....Steve Gilje, Rolette
Area III..... Monte Bloms, Carpio
Area IV..... Kelly Froelich, Selfridge
Area IV..... Rocky Bateman, New Salem
Area V..... Kent Pedersen, Arnegard
Area V..... Paul Schmitz, Beach

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ND NACD Representatives

- Keith Bartholomay
- Steve Gilje

Resource Policy Groups (Forestry)

- Keith Bartholomay - NDASCD
- Sarah Tunge – NCDEA

Resource Policy Group (Legislative/Farm Bill)

- Rhonda Kelsch – NDASCD

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Vice President.....Matt Olson, Wild Rice
Secretary.....Kari Beckman, Bottineau
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Area I Director.....Vacant
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Area II Director.....Tokina McHarry, Dickey
Area III Director..... Kari Beckman, Bottineau
Area III Director.....Stetson Myers, Ward
Area IV Director.....Dustin Krueger, Stutsman
Area IV Director.....Chad Thorson, Burleigh
Area V Director.....Cassidy Fairbanks, B-Slope
Area V Director.....Molly Jugovich, Williams
NCDEA Director.....Sarah Tunge, Mercer

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Vice Chair.....Kelly Klosterman

Governor Appt.....Anthony Moch, Braddock
Governor Appt.....Kelly Klosterman, Mooreton
Area I.....Donna Grann, Sheyenne
Area II.....Warren Solberg, Horace
Area III.....David Hill, Willow City
Area IV.....Bob Martin, Jamestown
Area V.....Wes Frederick, Flasher
Ext. Program Director.....Jodi Delozier, Fargo

Note: The following is a summary of state laws relating to Soil Conservation Districts and should not be considered legal advice. Contact your local State's Attorney for any legal services your SCD requires.

Mill Levy Authority - N.D.C.C. 4.1-20-24

The Legislative Assembly granted the Supervisors of North Dakota Soil Conservation Districts the authority to levy a tax, **not exceeding 2.5 mills**, for the payment of the expenses of the district, including mileage and other expenses of the supervisors, and technical, administrative, clerical, and other operating expenses. This authority is provided in the North Dakota Soil Conservation Districts Law, N.D.C.C. 4.1-20-24

Upon filing a certified copy of the levy, the county auditor of each county in the district will extend the levy upon the tax list of the county for the current year against each description of real property lying both within the county and the district in the same manner and with the same effect as other taxes are extended. The county treasurer collects all taxes and turns the funds over to the soil conservation district on a monthly basis. According to a February 21, 1992 Attorney General opinion, "Soil conservation districts are taxing districts because they are authorized to levy taxes under North Dakota Century Code - N.D.C.C. Section 4.1-20-24."

N.D.C.C. 57-02-01 says, "Municipality" or "taxing district" means a county, city, township, school district, water conservation or flood control district, Garrison Diversion Conservancy District, county park district, joint county park district, irrigation district, park district, rural fire protection district, or any other subdivision of the state empowered to levy taxes.

Therefore, soil conservation districts are also subject to Title 57 because they are subdivisions of the state and have the authority to levy taxes.

N.D.C.C. 57-15-31 provides the formula for determination of a levy. This determination is made by considering the estimated expenditures for the current fiscal year and the required reserve fund. The municipality may only levy for what is actually needed for the fiscal year. This process eliminates municipalities from creating a big "nest egg."

N.D.C.C. 57-15-27 provides that a municipality authorized to levy taxes may include in its budget an interim fund. The interim fund is to be carried over to meet any requirements of the next fiscal year that may become due prior to the receipt of taxes in that fiscal year. The interim fund cannot be in excess of what may be reasonably required to finance the municipality for the first nine months of the next fiscal year. The interim fund cannot exceed three fourths of the current appropriation for all purposes other than debt retirement and appropriations from bond sources.

N.D.C.C. 57-15 entitled "Tax Levies and Limitations." N.D.C.C. 57-15-02 provides for the determination of rate:

Determination of rate. The tax rate of all taxes, except taxes the rate of which is fixed by law, must be calculated and fixed by the county auditor within the limitations prescribed by statute. If any municipality levies a greater amount than the prescribed maximum legal rate of levy will produce, the county auditor shall extend only such amount of tax as the

prescribed maximum legal rate of levy will produce. The rate must be based and computed on the taxable valuation of taxable property in the municipality or district levying the tax. The rate of all taxes must be calculated by the county auditor in mills, tenths, and hundredths of mills.

The county auditor can limit the soil conservation district mill levy request and will only extend the amount of levy as allowed pursuant to title 57. The county auditor will not extend any levy in excess of the allowable levy which is the difference between the sum of the estimated expenditures, and interim fund needs and debt retirement and the sum of the projected revenues and cash balances. Allowance may be made for a permanent delinquency or loss in tax collection not to exceed five percent of the levy. N.D.C.C. 57-15-31.

The 1997 Legislature let stand the provision enacted in 1995 that, beginning with taxable year 1997, a soil conservation district may elect to levy the amount levied in dollars in the base year with no percentage increase. Any levy under this section must be specifically approved by the governing body of the soil conservation district.

Additional Mills – The ability of a Soil Conservation District to levy additional taxes, beyond 2.5 mills, with the approval of a majority vote of district residents, is currently unclear. Districts wishing to do so should work with their local State’s Attorney.

Preliminary Budgets - In 2017, the North Dakota Legislature made some important changes to budget deadlines and the notice process, which the county and other local governments need to comply with every year. All local governments need to file a preliminary budget with the County Auditor’s Office. County Auditors will provide information on submitting budgets and mill levy requests. Filing dates are typically in early August.

Whether you are a county, city, park district, school district, township, fire district, or soil conservation district you will need to file a preliminary budget with the County Auditor. If you fail to file the preliminary budget by early August. You will be limited to levying the same dollars as levied in the previous year. You also must file a final budget to actually levy taxes for your budget.

When you provide the preliminary information to the County Auditor, you also need to provide the date, time, and place of your budget hearing, if you levy over \$100,000 in taxes. The hearing date cannot be any earlier than early September nor later than early October. The reason for the new deadline is to allow the county time to prepare an Estimated Tax Statement that needs to be mailed by the end of August.

If you levy over \$100,000 in taxes, the County Auditors will put the hearing notice on the Estimated Tax Statement. If you levy less than \$100,000, you will need to publish the notice of the budget hearing in your official newspaper.

Once you have held your final budget hearing and your board has approved the current year budget, you will need to file your final budget with the County Auditor. Remember the amount requested for the final budget cannot be greater than the amount of your preliminary budget.

Soil Conservation Districts Election

District Supervisor Election Procedure - Any land occupier physically living in the soil conservation district and is a qualified elector is eligible to run for the office of a soil conservation district supervisor. A “land occupier” as defined in the Soil Conservation Districts Law, includes any person that holds title to or is in possession of any lands lying within a district whether living or located in a rural or urban area within the district.

“Qualified elector” means an individual who is at least eighteen years old, is a citizen of the United States, and who has resided in the precinct thirty days next preceding any election, whether or not the individual is living in a rural or urban area.

District Supervisor Election Procedure - Any person can become a candidate upon filing a petition and statement of interests with the county auditor of the county or counties in which their district lies. The final filing date for petitions and statement of interests is no later than sixty days before the day of the election and not later than four p.m. of such day. The candidates’ petition must contain signatures of not less than twenty-five, nor more than three hundred qualified electors of the district (N.D.C.C. Chapter 4.1-20-15 & 16)

In the event a soil conservation district lies in two counties, an original petition and statement of interests with original signatures must be filed with both county auditors concerned. Any land occupier living in the district who has failed to file a nominating petition and statement of interests may furnish stickers to be attached to the ballot. The ballot shall have blank spaces below the names of candidates nominated by petition for writing in other names.

The regular election of Soil Conservation District supervisors shall be held at the same time, and at the same place, as the general election is held. Supervisors are elected for a term of six years. Candidates shall be elected on a nonpartisan ballot.

Nominating Petitions and Statement of interest forms are available through the local County Auditor Office. Contact County Auditor to confirm General Election ballot includes SCD Supervisor.

Oath of Office / Officially Take Office - Newly elected soil conservation district supervisors officially take office on the first day of January and upon completing and filing an Oath of Office.

Oath of Office forms are official documents and must be executed prior to the time elected and appointed officers are designated to officially take office. Only those elected and appointed soil conservation district supervisors who have completed and filed an Oath of Office shall qualify for their elective and appointive positions.

All newly elected soil conservation district supervisors must complete and file an Oath of Office which will cover the duration of their term of office to which they have been elected. The Secretary of State will furnish the Oath of Office forms which must be completed and returned to the Secretary of State's office. (Note different than Appointed Supervisor)

Vacancies - Elected Supervisors - In case the office of any elected supervisor shall, for any reason, become vacant, the remaining members of the board of supervisors shall, with the advice and consent of the State Soil Conservation Committee, fill the vacancy by appointment. In the event that vacancies shall occur in the office of two elected supervisors, the remaining supervisor and the State Soil Conservation Committee shall fill the vacancy; and in case the offices of all elected supervisors of a district shall become vacant, the State Soil Conservation Committee shall fill the vacancies by appointment. A supervisor appointed to fill a vacancy shall hold office until the next general election. A supervisor elected to fill a vacancy shall serve the balance of the unexpired term in which the vacancy occurred N.D.C.C. Chapter 4.1-20-18.

To fill a vacant elected supervisor position, submit the names of the elected office-holder and the district's chosen appointee, a short biography for the appointee, and a signed Oath of Office to the State Soil Conservation Committee. The Committee will vote to approve the appointment at their next meeting and will submit the results to the Secretary of State's Office.

Appointed Supervisors – In accordance with the opinion secured from the Attorney General's office, any soil conservation district, upon resolution of the three elected supervisors, may appoint two additional supervisors who shall serve for a term of one year from and after the date of their appointment. N.D.C.C. Chapter 4.1-20-18.

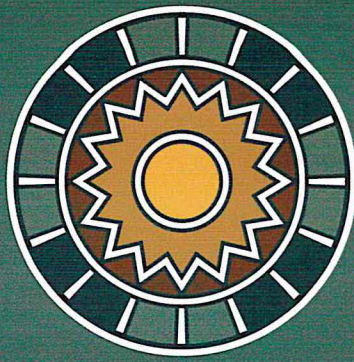
Such supervisors shall be appointed by a majority of the three elected supervisors and shall have all the powers, voting privileges, duties, and responsibilities of elected supervisors. As far as possible, the appointed supervisors shall represent interests within the district which are not represented by the elected supervisors. Try to have equal representation from all parts of the district on the board of supervisors. Such appointments must be made at a district meeting and recorded in the district minutes.

All appointed supervisors, whether newly appointed or reappointed, must complete an Oath of Office form immediately after their appointment, which will cover the duration of their term of office to which they have been appointed. The Oath must be signed in the presence of a Notary Public. All completed Oath of Office forms for appointed supervisors must be submitted to the State Soil Conservation Committee by March 31. (Note different than Elected Supervisor)

Only those appointed soil conservation district supervisors who have completed and filed an Oath of Office would qualify for their appointive position. The district law requires that there be two appointees and not just one. The Committee does not file the appointed supervisor's Oath of Office form with the Secretary of State until both appointees' Oath of Office forms are received.

Advisors – If the soil conservation district board needs broader coverage than can be obtained with the elected and appointed supervisors, advisors can be appointed.

- Can offer advice and counsel.
- Cannot vote or take official action at board meetings.
- Cannot hold an office on the board of supervisors.
- Cannot receive supervisor compensation.
- Can be reimbursed for their expenses.



DAKOTA LEGACY INITIATIVE

Preserving North Dakota's legacy of agriculture, conservation, and legendary land and water

The Dakota Legacy Initiative is an effort to bring all conservation groups and resources in North Dakota together to create one centralized location, equipping producers and landowners with timely, relevant and streamlined information.

Where collaborative conservation begins

Our goal is to work together to make resources easily accessible to producers to practice good conservation and planning! We take the guesswork out of what sources are reliable and share information that is vital to the success of our land and water.

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Help preserve our lands for generations to come

As a partner, you will receive:

- Free statewide media coverage showcasing your programs and resources
- Your own custom landing page with no additional work required
- Support within our community of collaboration to help open new doors for funding

Contact us to partner today!
DakotaLegacyInitiative.com

Sarah Tunge mcsd@westriv.com | Rhonda Kelsch rhonda@lincolnoakes.com

2021-2023 Capital Improvement and One-time Request Update North Dakota Agricultural Experiment Station

AES Equipment Storage Sheds

Purchasing and/or leasing expensive field equipment is an investment that the AES needs to protect. Storing expensive research plot equipment such as tractors, seeders and combines outdoors reduces the life of the equipment and can compromise the sophisticated electronics typically used on such equipment.

21-23 Request: 8 (\$300,000 per shed)

21-23 Funding Received: \$300,000 for Hettinger REC (Regular session – SIIF)

Funds Expended through 12/31/22: \$294,310

Current Status: Hettinger REC storage shed is complete. The size of the shed was decreased from the original planned size to stay within budget.

23-25 Additional Funding Request: \$3,325,000 (\$475,000 per shed)

Central Grasslands Pasture Working Facilities

The Central Grasslands REC currently has damaged, small pens with no alleyways, working pen, or catwalks which are unsafe for livestock and people. Two working facility will be built, one in Barker's Unit and one in Wagon Wheel. These facilities will include holding pens, working facilities, bud box, cat walks, and alleyways to create safe working areas to work cattle, collect livestock data, breeding, and doctor cattle while on grazing research studies.

21-23 Request: \$200,000

21-23 Funding Received: \$200,000 (Regular session – SIIF)

Funds Expended through 12/31/22: \$66,065

Current Status: One of the two pasture facilities is complete. The second pasture facility is approximately 50% complete. Completion is scheduled for May 2023.

Langdon REC Greenhouse

The Langdon REC identifies a need to develop greenhouse space for its plant pathology effort. Greenhouse space would allow for year-round testing of disease issues for crops grown in the region and provide an area for testing chemical control methods.

Because the climatic conditions in North Dakota allow only one crop a year, many researchers must limit their research projects to a certain number a year. If our facility gets a greenhouse, we can accomplish more than what we are doing now. Now, plant pathology greenhouse projects are directed to the main campus in Fargo as we do not have a greenhouse at our center.

Greenhouses accommodate many types of plant research and provide flexible environments to accommodate the growing needs for plant research in a shorter time. We currently have diverse types of research projects that need a greenhouse, such as:

- Isolated environments. For example, clubfoot of canola research first must be conducted in a greenhouse rather than in field conditions where the odds of spreading the disease are higher.
- Ambient conditions to replicate outdoor conditions for control and integrated pest management experiments dealing with local rare and newly introduced diseases and pests.
- Bioassays for crop-specific nematode detection, such as soybean cyst nematode.
- Bioassays for the determination of herbicide resistance.
- Fungicide efficacy tests for quick results. Instead of waiting for next summer, research can be done in winter and conveyed to the research community and growers, for example, fungicides to manage chocolate brown spot of Faba beans as no fungicides are registered so far in ND.

21-23 Request: \$473,000

21-23 Funding Received: \$473,000 (Regular session – SIIF)

Funds Expended through 12/31/22: \$25,729

Current Status: One bid was received for \$724,430 in June 2022. Architect has suggested to rebid the project in spring 2023.

23-25 Additional Funding Requested: \$251,430

Central Grasslands REC Livestock Facility

The CGREC livestock facilities are in dire need of replacement. The existing space used as a support lab is small and inadequate to handle, prepare, and test blood and tissue samples, particularly as the research portfolio at this center has increased recently. This proposed facility would complement the research activities that will be carried out in the new Agronomy laboratory, thereby enhancing the two major research foci of this Center. Livestock holding pens and sheds also are inadequate to address the research and outreach needs for the Coteau region of the state. Specifically, the development of replicated dry lot research pens would allow scientists to answer a broader range of questions relating to beef cow and calf management; a feed handling facility would improve the Center's ability to ensure diet accuracy and improve overall feed management; and a nutrient management/wastewater containment system is lacking and is needed to address possible health and pollution issues.

21-23 Request: \$1,963,000

21-23 Funding Received: \$1,963,000 (Special session – ARPA)

Funds Expended through 12/31/22: \$79,440

Current Status: Bid opening was held on 12/22/22. Several bids were received. Bids were not accepted as there were not adequate funds to complete the project.

23-25 Additional Funding Request: \$400,000

Hettinger REC Sheep Feed Efficiency Research Facility

Traditionally, high grain prices and volatile commodity prices have raised interest and emphasis on increasing the efficiency of sheep production during all phases of production (rams, ewes and feedlot performance). No facility exists in the northern Great Plains to evaluate feed efficiency in sheep production, but the HREC is well situated and established in the sheep industry to expand its research capabilities through a new facility that can monitor individual animal intake in a pen setting. Research would evaluate genetic potential of breeding stock (rams and ewes) that measures feed intake in relation to performance, as well as feedlot research to complement and provide additional replication to the large-scale trials conducted at the Southwest Feeders Feedlot at the HREC.

21-23 Request: \$1,891,000

21-23 Funding Received: \$1,891,000 (Special session – ARPA)

Funds Expended through 12/31/22: \$75,594

Current Status: Bid opening was held 1/5/23. Bid was accepted.

23-25 No additional funding requested

Carrington REC Feedlot Research Support Facility

Construction of a multi-use Feedlot Research Support Facility at the livestock unit would improve feedlot research operational capability, assist in sustaining Institutional Animal Care and Use Committee (IACUC) compliance, attain worker protection standards and reduce maintenance costs for equipment. The CREC has a critical need for a facility at the livestock unit that would combine a dispensary for processing and storing pharmaceuticals and animal health supplies; laboratory space for feeds, blood, fecal and tissue processing; inside tempered storage for daily use feeding equipment; and a shop area for tools, equipment, and equipment maintenance and minor repairs. This facility has been a longtime priority project for the CREC. The CREC livestock program is the primary outstate program for beef feedlot research and evaluation of feeds and feedstuffs for beef production.

21-23 Request: \$450,000

21-23 Funding Received: \$450,000 (Regular session – SIIF)

Funds Expended through 12/31/22: \$30,010

Current Status: Bid opening in July 2022 resulted in one electrical bid and no general contractor bids. Project was re-advertised and bids opened in September 2022 resulting in one general contractor bid for \$1,090,000. This bid was not accepted.

23-25 Additional Funding Request: \$640,000

Hettinger REC Livestock Processing and Research Support Facility

The HREC Southwest Feeders Feedlot cattle and sheep feedlot (24 pens with a capacity of 192 calves or 960 lambs) has provided significant research and outreach to support the livestock industry in the state and region. Feedlot research results are annually published in refereed journals, the ND Beef Cattle Research Report, and the ND Sheep Research Report, in addition to being the centerpiece for research-related livestock outreach efforts at the HREC. The current feedlot has a small (512 square foot) facility that does not support current research or outreach activities. The facility does not provide a secure area to store and administer veterinary supplies, an area for sorting animals into treatments and pens, an area to hold animals indoors for observation and sample collection or office space for the herdsman and has no restroom facilities. A multi-species processing and research support facility would greatly enhance the livestock research conducted at the HREC and expand AES research capabilities in beef cattle and lamb feedlot nutrition and management.

21-23 Request: \$1,529,000

21-23 Funding Received: \$1,529,000 (Special session – ARPA)

Funds Expended through 12/31/22: \$61,308

Current Status: Bid opening was held 1/12/2022. Bids are currently under review.

23-25 No additional funding requested

Dickinson REC Agricultural Lab and Shop Facility

The current facilities lack adequate heating and cooling and have inadequate dust collection systems necessary for the safety of the employees at the REC. The current shop facility is not large enough to allow repair of modern agricultural research equipment.

21-23 Request: \$2,200,000

21-23 Funding Received: \$2,200,000 (Special session – ARPA)

Funds Expended through 12/31/22: \$71,914

Current Status: Bid opening was held 1/18/23. Bids are currently under review.

23-25 No additional funding requested

Carrington REC Feedlot Pen Expansion with Waste Containment

Meeting the expanding demands for feedlot research is partially limited by available pens. Current pens are fully utilized. The CREC is continually challenged to do more livestock nutrition research; however, feedlot pen availability is a clear limitation. The addition of a minimum of 12 pens that would hold up to 240 head of cattle would allow the CREC to conduct at least one additional experiment per feed-out period. Further, the additional pens will allow more treatments and replications within other feedlot studies, which would improve statistical confidence and precision. Any feedlot pen expansion must include the associated waste containment facilities to remain compliant with state law. The CREC livestock program is the primary outstate program with the mission for beef feedlot research and evaluation of feeds and feedstuffs for beef production. Beyond the ability to conduct additional experiments or evaluate more treatments with greater replication, the additional feedlot pens would be developed to expand the depth and speed of the ability to evaluate other factors that impact feeding livestock in North Dakota. These factors include minimizing animal stress, mitigating winter stress, managing influences on environmental concerns, beef animal efficiency and other issues that ultimately impact the viability of beef cattle production and feeding in the state.

21-23 Request: \$325,000

21-23 Funding Received: \$325,000 (Regular session – SIIF)

Funds Expended through 12/31/22: \$4,000

Current Status: One bid of \$295,000 was received for the concrete portion of the pen expansion. The bid did not include the needed water and electrical work, feedlot penning and supplies which will be purchased separately.

Estimated cost is \$420,000

23-25 Additional Funding Request: \$95,000

Carrington REC Covered Feeding (Hoop barn or Mono-slope)

The expansion of feedlot pens would be implemented in a manner that is conducive to future construction of a covered facility either in the form of a hoop barn or mono-slope. This would allow research to evaluate mitigation of winter and summer extremes on animal performance when compared to open lot production. Covered pens also will provide research data on changes to the waste and environmental issues that often challenge the livestock industry.

21-23 Request: \$129,600

21-23 Funding received: \$129,600 (Special session – ARPA)

Funds Expended through 12/31/22: \$0

Current Status: This project is contingent on completion of the feedlot pen expansion. Mono-slope structure would better protect the smart feeders from the elements. Estimated cost for this project is \$594,000.

23-25 Additional Funding Request: \$464,400

Carrington REC Bulk Feed Commodity Storage Structure

A major program research responsibility of the CREC is to conduct research that evaluates how North Dakota-derived feedstuffs may be most appropriately utilized in livestock feeding rations with focus on beef production. The research program utilizes many different types of feedstuffs including those that must be stored in bulk. Presently, feedstuffs such as distiller's grains, soybean hulls, ground hay/straw, etc. are stored outside on the ground, which exposes the products to the weather elements, soil contamination and mixture with adjacent products. Animal nutrition research is compromised when the feed products become degraded or contaminated. This addition will enable the research program to expand the variety and number of commodities utilized in feeding studies, improve precision of mixed rations and reduce feed product waste, lowering costs to both the CREC and producers who consign cattle to the studies.

21-23 Request: \$102,600

21-23 Funding Received: \$102,600 (Special session – ARPA)

Funds Expended through 12/31/22: \$2,800

Current Status: Project was put out for bid in June 2022 and was extended into August 2022 with no bids submitted. Project was reassessed and revised cost estimate is \$260,000.

23-25 Additional Funding Request: \$157,400

Carrington REC Smart Feed Technology System

These systems allow for more intensive data collection and individual animal application of treatment rations. Feed intake is one of the main drivers of livestock performance. By increasing the abilities of CREC and collaborating researchers to more accurately measure intake and expand the depth of treatments applied within studies, more detailed information can be provided to area producers. Smart feed systems would increase opportunities to study issues to a greater scope and depth, thereby increasing competitiveness for grant funds to support the broader research program.

21-23 Request: \$213,800

21-23 Funding received: \$213,800 (Special session – ARPA)

Funds Expended through 12/31/22: \$0

Current Status: Installation of this equipment is contingent on completion of the other feedlot projects at the Carrington REC. Since those projects could not be completed, equipment purchase is on hold.

23-25 No additional funding requested

Central Grasslands REC Housing

The current director is living in the house that should be for the center herdsman. A new house will need to be built to provide housing for personnel who need to be on site for day-to-day operations. Construction of a new residence would offset the substantial costs associated with repair to the existing residence.

21-23 Request: \$325,000

21-23 Funding Received: \$325,000 (Regular session – SIIF)

Current Status: Project was bid in August 2022 with no bids submitted.

23-25 Additional Funding Request: \$175,000 special funds authorization

Williston REC Greenhouse

A greenhouse is needed for the WREC plant pathology, weed science, agronomy, and horticulture programs to allow for conducting plant disease, weed, agronomic, and horticulture research during the winter months and to provide consistent growing conditions to replicate different environmental challenges.

19-21 Request: \$500,000 special funds authorization

19-21 Funding Received: \$500,000 special funds authorization

Funds Expended through 12/31/22: \$0

Current Status: Special fund authorization in the amount of \$500,000 was authorized by the 67th North Dakota legislative assembly, and \$500,000 has been raised. Unfortunately, the current bidding environment indicates that \$500,000 is no longer enough authorization for the construction of a new greenhouse. Estimated cost is now \$1,250,000.

23-25 Additional Funding Request: \$750,000 special funds authorization

Location	Project	Funding Source	Authorized Amt	Bid/Estimated Amount	Bid/Estimate	Additional General Fund Request	Additional Special Funds Request
LREC	Greenhouse	SIIF	473,000	724,430	Bid	251,430	
CREC	Feedlot Research Support Facility	SIIF	450,000	1,090,000	Bid	640,000	
CREC	Feedlot Pen Expansion with Waste Containment	SIIF	325,000	420,000	Estimate	95,000	
CREC	Covered Feeding (Hoop barn or Mono-slope)	ARPA	129,600	594,000	Estimate	464,400	
CREC	Bulk Feed Commodity Storage Structure	ARPA	102,600	260,000	Estimate	157,400	
CREC	Smart Feed Technology System	ARPA	213,800	213,800	Estimate		
CGREC	REC Housing	SIIF	325,000	500,000	Estimate		175,000
CGREC	Livestock Facility	ARPA	1,963,000	2,363,000	Bid	400,000	
DREC	Agricultural Lab and Shop Facility	ARPA	2,200,000	2,200,000	Bid		
HREC	Sheep Efficiency Facility	ARPA	1,891,000	1,891,000	Bid		
HREC	Livestock Processing and Research Support Facility	ARPA	1,529,000	1,529,000	Bid		
WREC	Greenhouse	Capital Campaign	500,000	1,250,000	Estimate		750,000
						2,008,230	925,000

Upper Great Plains Transportation Institute - Budget No. 627
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	43.88	\$4,485,607	\$19,042,350	\$23,527,957	43.88	\$4,485,607	\$19,042,350	\$23,527,957
2023-25 Ongoing Funding Changes								
Base payroll changes			\$77,856	\$77,856				\$0
Salary increase		\$237,004	546,153	783,157				0
Health insurance increase		68,100	139,764	207,864				0
Total ongoing funding changes	0.00	\$305,104	\$763,773	\$1,068,877	0.00	\$0	\$0	\$0
One-Time Funding Items								
Adds funding for a transportation data intelligence		\$432,600		\$432,600				0
Total one-time funding changes	0.00	\$432,600	\$0	\$432,600	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	\$737,704	\$763,773	\$1,501,477	0.00	\$0	\$0	\$0
2023-25 Total Funding	43.88	\$5,223,311	\$19,806,123	\$25,029,434	43.88	\$4,485,607	\$19,042,350	\$23,527,957
<i>Federal funds included in other funds</i>			\$12,715,395				\$12,309,427	
<i>Total ongoing changes as a percentage of base level</i>	0.0%	6.8%	4.0%	4.5%	0.0%	0.0%	0.0%	0.0%
<i>Total changes as a percentage of base level</i>	0.0%	16.4%	4.0%	6.4%	0.0%	0.0%	0.0%	0.0%

Other Sections in Upper Great Plains Transportation Institute - Budget No. 627

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provide that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.

NDSU NORTH DAKOTA STATE UNIVERSITY

January 23, 2023

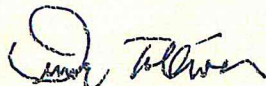
Re: Upper Great Plains Transportation Institute's 2023-25 Budget Request

Dear Chairman Monson and Members of the House Appropriations Government Operations Division:

The Upper Great Plains Transportation Institute's amended 2023-25 budget request is attached. A new one-time funding request for a study of Multimodal Transportation System Options for Captured Carbon Dioxide has been added to the original request. For the convenience of the committee, I have included this request as a separate amendment (which is the first attached document). It is also included in the revised budget request (the second attached document).

I look forward to discussing this request with you and answering questions about UGPTI's other budget requests.

Sincerely,



Denver Tolliver
Director
Upper Great Plains Transportation Institute
North Dakota State University

Multimodal Transportation System for Captured Carbon Dioxide

As stated in N.D.C.C. 38-22-1, "it is in the public interest [of North Dakota] to promote the geologic storage of carbon dioxide. Doing so will benefit the state and the global environment by reducing greenhouse gas emissions." Governor Burgum's vision is for North Dakota to lead the nation in carbon capture, utilization, and storage (CCUS) and achieve carbon neutrality by 2030. CO₂ has many industrial uses—including enhanced oil recovery—that could spur economic growth and productivity in the state.

North Dakota has the capacity to safely store much of the nation's carbon dioxide output for years to come. However, leading the nation in CCUS (while meeting the demands of industry for carbon dioxide) will require the movement of substantial quantities of CO₂ into the state. Many miles of new pipeline will be needed, not only in North Dakota but in the surrounding region. However, the approval and construction of new pipelines is a lengthy process and controversial in certain respects. North Dakota has little control over the construction of pipelines in other states—which would be needed if CO₂ is to be imported into North Dakota.

While pipelines can serve large installations with connections to the trunk-line network, many possible sources of CO₂ are not served by pipeline and it is not economically feasible to connect all these dispersed sources to the network. However, many of them are already being served by rail. According to the Association of American Railroads (AAR), about 12,000 shipments of CO₂ are transported by railroads in the United States each year in specially designed tank cars. According to AAR, "railroads are interested in working with the Department of Energy to explore opportunities to transport captured carbon dioxide." Because the railroad network is already in place, the acquisition of new right-of-way across farmland and the exercise of eminent domain would not be needed to start transporting CO₂.

A strategic vision for a multimodal CO₂ transportation system that includes both pipeline and railroad options is needed. The purpose of this one-time funding request is to conduct such a study, develop a proposal for federal funding that will illustrate the potential roles of railroads in transporting CO₂, and model CO₂ supply chains to better understand how railroads might serve industries currently located in North Dakota, or companies that might be interested in locating in the state.

In this study, UGPTI will collaborate with Class I and regional railroads, interested industries, and state agencies, including the Departments of Agriculture, Commerce, and Transportation and the Oil and Gas Division. The project will result in assessments of:

- The potential for a multimodal transportation system to transport CO₂ into and within North Dakota
- The potential for transportation of CO₂ by rail and the complementary roles that railroads could play in a comprehensive CO₂ transportation system (including serving CO₂ hubs and distribution centers)

North Dakota State University
Upper Great Plains Transportation Institute
Agency 627
Denver Tolliver, Director

2023-2025 Biennial Budget Request (Amended)

Presented to:
The House Appropriations Committee
Government Operations Division

January 25, 2023

Background Agency Information

Legislative Directives and Purpose N.D.C.C 54-53-03 The Upper Great Plains Transportation Institute’s purpose is to “conduct and supervise research in the field of transportation and logistics in order to facilitate acquisition of a wider knowledge and understanding of marketing factors associated with the geographical location of the state of North Dakota and the upper great plains in the field of transportation and their influence on the socioeconomic systems of the state, region, and country” UGPTI’s research areas “must include the study of commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services (N.D.C.C 54-53-03).”

Advisory Council N.D.C.C 54-53-02 The Legislature established a transportation council to serve in an advisory capacity and “consult with the Institute in matters of policy affecting the administration of this chapter and in the development of transportation in the state of North Dakota.” The council shall elect its own chairman and the Director of the Institute shall serve as the executive secretary of the council.

Administration N.D.C.C 54-53-01 The Institute must be administered by and in conjunction with the North Dakota State University of Agriculture and Applied Science. The president and administration of the North Dakota State University are responsible for the selection of personnel for and the administration of the Institute.

Major Accomplishments in Current Biennium

Biennial Road & Bridge Needs Assessment With its general fund appropriation, UGPTI conducted its biennial analysis of county, township, and tribal road investment needs in the state. The study included 71,808 miles of road, including 5,843 miles of paved county road and 56,656 miles of gravel road. UGPTI staff and student employees counted and classified vehicles at 424 locations on county, township, and tribal roads throughout the state, recording the total number of vehicles per day at each site, as well as the number of trucks, by size category. When combined with NDDOT traffic counts on county roads, UGPTI’s traffic data provide a comprehensive picture of traffic around the state. In addition to the traffic counts, UGPTI analyzed the surface conditions of more than 2,750 miles of paved county road, collecting ride quality data in a cost-effective manner using sensors and special smart phones apps to measure road roughness and video images to assess road conditions (e.g., cracking) and develop composite ride scores. A survey was administered to each county to determine blading and gaveling practices, the sources and costs of gravel, and other cost factors needed for the unpaved portion of the road analysis. All 53 counties responded to the survey. The current conditions of 2,336 bridges on county roads were assessed during the biennium. The results are summarized below.

County, Township, & Tribal Road & Bridge Needs (Millions)

Time Period	Unpaved Roads	Paved Roads	Bridges	All
Twenty Years	\$6,545.66	\$3,248.80	\$715.57	\$10,510.01
Current Biennium	\$660.35	\$557.10	\$139.42	\$1,356.87
Avg. Biennial	\$654.57	\$324.88	\$71.56	\$1,051.00

Audits

A team from the Office of the State Auditor audited UGPTI's financial transactions and expenditures for the biennium that ended June 30, 2021. The audit did not identify any areas of concern. This was the only audit of UGPTI during the biennium.

UGPTI Funding Sources

*Special
Funds*

UGPTI does not operate facilities or assess fees that generate revenue on a continuous basis. Rather, UGPTI's special funds appropriation request represents the authority to collect grants and contracts from state and local agencies and private industries. Most of UGPTI's special funds originate from the North Dakota Department of Transportation under a strategic agency partnership that has benefited North Dakota for the last four decades. The ND Wheat Commission and several metropolitan planning organizations (MPOs) are the other regular providers of grant funding in addition to the NDDOT. There is uncertainty in the levels of these grants and contracts that will be received during any biennium.

*Federal
Funds*

The federal fund request represents a ceiling for UGPTI's federal grant collections. It is the agency's best projection of the authority needed to procure all grants that may become available during the biennium. The vast majority originates from the U.S. Department of Transportation (U.S. DOT), including grants from the Office of the Secretary, Federal Highway Administration, Federal Transit Administration, Federal Motor Carrier Safety Administration, and the National Highway Traffic and Safety Administration. Some grants (such as the University Transportation Center grant) are provided directly to UGPTI by federal agencies. In other cases, the funds are "federal source funds" provided by third parties through the federal procurement process. Although federal funds are important to UGPTI's budget, they have pre-determined uses. Ultimately, UGPTI has limited discretion in determining which critical issues are researched with federal funds. Federal research funds (although very important) are not a substitute for state research dollars.

*General
Funds*

Although state general funds comprise a minor portion of UGPTI's overall budget, they are essential to the agency's success and sustainability. State general funds are needed to match federal grants and provide continuity in times of delay or disruption in federal funding. Many of UGPTI's direct grants (such as the University Transportation Centers grant) require a 100% match of non-federal source funds. UGPTI's general funds are the only dependable source of match for these funds. Moreover, general funds are the only hard dollars in UGPTI's budget. Federal and special funds are provided at the discretion of intermediate agencies and third parties and are subject to the budget limits placed on these agencies.

Details

Specifically, the funding will be used to repurpose and equip a room in the Quentin Burdick Building, including remodeling expenses, computer workstations for staff and students, monitors to display field and traffic data, mini supercomputer to process large incoming data streams and run computationally intensive data mining and machine learning algorithms, servers to store and archive large data streams, and supporting telecom equipment.

Freight Transportation & Logistics Biennial Surveys and Reports

Background and Needs

North Dakota's economy is dependent on freight transportation and logistics services. Transportation and supply-chain bottlenecks and breakdowns have major impacts on producers and industries. The Legislature and State agencies need comprehensive and current information to monitor rapidly changing industry activity levels and logistics patterns and identify trends, issues, and needs in a proactive manner. UGPTI currently analyzes and publishes shipment data from elevators to markets. However, this report covers only a portion of the supply chain and does not include information on farm-to-elevator, farm-to-processing plant, and elevator-to-processing plant movements or manufactured goods.

Benefits to the State

If this request is funded, UGPTI will conduct surveys and publish reports each biennium about the transportation patterns and needs of agricultural processors, shipments from farms to elevators, inbound and outbound shipments to and from manufacturing plants by mode and shipment type (as well as assessments of the quality of transportation services provided), and information on commercial trucking in North Dakota, including the sizes of firms, the commodities hauled, the types of equipment used, equipment ages and utilization rates, fuel consumption rates, and other information. In addition to this detailed information, the reports will include assessments of the transportation challenges and needs facing each sector. The reports will provide the Departments of Transportation, Agriculture, and Commerce (and other agencies) with critical planning information.

Details of Request

This request for \$408,134 in base funding has been approved by the North Dakota Board of Higher Education and UGPTI's Advisory Council. However, this funding is not included in the Executive Recommendation presented earlier. The budget request reflects two FTEs. However, this request will not increase UGPTI's total FTE level, as two positions which are currently open will be redefined to provide the two new positions identified in the budget.

UGPTI's Role and Statutory Responsibility

UGPTI is the ideal agency for this effort, as UGPTI can: (1) offer individuals and companies confidentiality of the raw data they provide, (2) combine the data collected by the new surveys with existing data to provide a comprehensive picture of freight transportation and logistics in the State, and (3) serve State agencies and the Legislature by providing them with tailored reports and information each biennium. The request will allow UGPTI to better fulfil its statutory responsibilities to study "commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services."

General Fund Budget Request for 2023-25 Biennium

Item	Funding Category		Total
	Base Level	One Time	
Current Funding Level	\$4,485,607		\$4,485,607
Executive Recommendation	\$305,104	\$432,600*	\$737,704
Freight Transportation & Logistics Option	\$408,134	\$0	\$408,134
Multimodal CO ₂ Transportation Study		\$398,450	\$398,450
Total General Fund Request	\$5,198,845	\$831,050	\$6,029,895

* Transportation Data Intelligence Center included in Executive Recommendation

Additional Request for Salary Package. The requests presented above do not include salary increases for July 1, 2023 or July 1, 2024. The equity adjustment recommended by Governor Burgum is the only salary adjustment provided for in the requests. In addition to the equity adjustment, UGPTI is requesting that the final salary adjustments for the biennium (as enacted by the Legislature) be added to the amounts presented in this request. Moreover, UGPTI requests that 70% of the salary increases for the 2023-25 biennium provided by the Legislature be funded through general funds. UGPTI's grants and contracts do not include built-in escalation clauses to pass through salary increases to federal or state funding agencies. This request is consistent with the funding formula for the equity adjustment recommended by Governor Burgum.

**ANALYSIS OF THE STRATEGIC INVESTMENT AND IMPROVEMENTS FUND
FOR THE 2021-23 AND 2023-25 BIENNIUMS
(REFLECTING THE 2023-25 BIENNIUM EXECUTIVE BUDGET RECOMMENDATION)**

	2021-23 Biennium		2023-25 Biennium	
Beginning balance		\$863,342,901		\$1,252,056,624
Add estimated revenues				
Production royalties (2017 SB 2134; 2019 SB 2211) ^{1,2}	\$280,340,662		\$217,118,000	
Oil and gas bonuses ^{1,2}	0		0	
Mineral revenue refund repayments (2017 SB 2134; 2019 SB 2211) ²	(37,901,738)		0	
Mineral leases ¹	5,137,352		0	
Investment earnings ¹	(2,732,343)		17,650,565	
Oil and gas tax collections (2021 HB 1015; 2021 SB 2014, 2021 SB 2249, 2021 SB 2319; executive budget) ^{3,4}	898,500,000		493,963,459	
Total estimated revenues		1,143,343,933		728,732,024
Total available		\$2,006,686,834		\$1,980,788,648
Less estimated expenditures and transfers				
Secretary of State				
Information technology project (executive budget)			\$1,500,000	
Office of Management and Budget				
Information technology projects (2021 HB 1015)	\$3,251,304			
Transfer to the cultural endowment fund for the maintenance of public arts projects (2021 HB 1015)	1,000,000			
Deferred maintenance funding pool			20,000,000	
Information Technology Department				
Information technology projects (executive budget)			34,351,650	
Attorney General				
Litigation funding pool (2021 HB 1003)	3,000,000			
North Dakota University System				
Capital building fund program (2021 SB 2003; executive budget)	19,000,000		19,000,000	
Campus projects (2021 SB 2003)	2,863,000			
Lake Region State College				
Wind turbine replacement project (executive budget)			480,000	
Dickinson State University				
Agriculture and technology education building project (executive budget)			900,000	
Mayville State University				
Old Main renovation project (executive budget)			3,779,100	
Minot State University				
Dakota Hall demolition project (executive budget)			765,000	
Dakota College at Bottineau				
Old Main renovation project (executive budget)			3,700,000	
Veterans' Home				
Parking lot repairs (executive budget)			750,000	

State Department of Health and Human Services - Human Services Division			
Information technology projects (executive budget)			11,000,000
State Hospital project planning and design (executive budget)			10,000,000
Job Service North Dakota			
Unemployment insurance information technology project (executive budget)			45,000,000
Insurance Commissioner			
Study of lignite coal industry insurance (2021 HB 1010)	200,000		
Industrial Commission			
Transfer to the oil and gas research fund (2021 SB 2014)	9,500,000		
Transfer to the clean sustainable energy fund (executive budget)	250,000,000		250,000,000
Bank of North Dakota			
Transfer to the innovation loan fund to support technology advancement (2021 HB 1141)	15,000,000		
Department of Corrections and Rehabilitation			
Information technology project (executive budget)			2,307,000
Heart River Correctional Center project (executive budget)			161,200,000
James River Correctional Center maintenance shop project (executive budget)			1,550,000
Adjutant General			
National Guard deferred maintenance projects (2021 HB 1016)	1,000,000		
Dickinson Readiness Center project (executive budget)			10,000,000
Camp Grafton project (executive budget)			6,000,000
Department of Commerce			
Beyond visual line of sight unmanned aircraft systems (2021 SB 2018)	19,000,000		
Enhanced use lease grants (2021 SB 2018)	7,000,000		
Job development grant (2021 SB 2018)	1,500,000		
Workforce safety grant (2021 SB 2018)	1,500,000		
Agriculture Commissioner			
Grasslands grazing grant program (2021 HB 1009)	5,000,000		
Bioscience grants (executive budget)			5,500,000
Upper Great Plains Transportation Institute			
Remote sensing infrastructure (2021 SB 2020)	225,000		
Branch Research Centers			
Capital projects at the Carrington Research Center, the Central Grasslands Research Center, the Hettinger Research Center, and the Langdon Research Center (2021 SB 2020)	2,073,000		
NDSU Main Research Center			
Equipment storage sheds (executive budget)			1,900,000
Deferred maintenance projects (executive budget)			720,000
Northern Crops Research Center			
Feed center project (executive budget)			3,900,000
State Historical Society			
Historic site projects (executive budget)			6,751,500
Medora area planning (executive budget)			2,000,000
Exhibit projects (executive budget)			595,000
Parks and Recreation Department			
Various capital projects at parks and deferred maintenance (executive budget)			5,000,000
Local park district grants (executive budget)			6,000,000

State park matching grants (executive budget)			1,500,000
Lake Metigoshe master plan (executive budget)			750,000
Department of Transportation			
Matching federal funds (executive budget)			300,000,000
Transfer to the general fund (2021 HB 1015; executive budget)	410,000,000		400,000,000
Administrative costs/other fees	3,517,906		4,000,000
Total estimated expenditures and transfers		754,630,210	1,320,899,250
Estimated ending balance		\$1,252,056,624	\$659,889,398
Restricted fund income			
Reserve relating to potential title disputes (2017 SB 2134; 2019 SB 2211) ^{2,6}		68,349,040	68,349,040
Loan guarantees (2011 SB 2306; 2013 SB 2287; 2019 SB 2296; 2021 SB 2230) ⁷		80,000,000	80,000,000
Estimated ending balance - Unobligated		\$1,103,707,584	\$511,540,358

¹The amounts shown reflect projections by the Department of Trust Lands for the 2021-23 bienniums.

²Senate Bill No. 2134 (2017) changes the definition of the ordinary high water mark related to sovereign minerals, reducing the mineral revenue to the strategic investment and improvements fund and requiring refund payments for previously received mineral revenues. The bill appropriated \$100 million from the strategic investment and improvements fund and authorized \$87 million from a line of credit through the Bank of North Dakota for the mineral revenue refund repayment during the 2017-19 biennium. Some production royalties may be deposited in the strategic investment and improvements fund prior to the implementation of the repayment process. The bill provided legislative intent that the \$87 million line of credit is to be repaid from the strategic investment and improvements fund; however, the total amount of funding needed for mineral revenue refund repayments is unknown and any changes to the amount of funding or the line of credit repayments will be determined by future legislative assemblies. Mineral revenue refund repayments began in the fall of 2020. The amounts shown for the refund repayments reflect the amounts paid through April 2022 pursuant to the department's continuing appropriation.

House Bill No. 1202 (2019) clarifies the definition of navigable waters, which may affect the state's mineral interests and mineral revenue deposited in the strategic investment and improvements fund. However, the estimated impact is unknown.

³Estimated revenues - The estimated allocations for the 2021-23 biennium are based on actual oil and gas tax revenue allocations through April 2022 and the 2021 legislative revenue forecast for the remainder of the 2021-23 biennium.

⁴House Bill Nos. 1014 and 1066 (2019) and Senate Bill Nos. 2016, 2249, 2312, and 2362 (2019) change the oil and gas tax revenue allocation formulas. The combined effect of the bills results in a decrease in the allocations to the strategic investment and improvements fund.

House Bill No. 1015 (2021) increases the oil and gas tax revenue allocation limit for the state disaster relief fund by \$5 million and aligns the allocations to the municipal infrastructure fund and the county and township infrastructure fund to provide allocations to the two funds at the same time after the initial allocation to the strategic investment and improvements fund. For the 2021-23 biennium only, Senate Bill No. 2014 (2021) limits the allocations to the North Dakota outdoor heritage fund to \$7.5 million per fiscal year. Senate Bill No. 2249 (2021) increases the oil and gas tax revenue allocation limit for the state disaster relief fund by \$5 million, the same as House Bill No. 1015 (2021). Senate Bill No. 2319 (2021) allocates a portion of the oil and gas tax revenue collected from oil wells that cross into a reservation to the tribes decreasing the state's share of oil and gas tax revenues. The combined effect of the bills results in an increase in the allocations to the strategic investment and improvements fund.

⁵House Bill No. 1014 (2019) provides a contingent transfer of up to \$40 million from the strategic investment and improvements fund to the infrastructure revolving loan fund if the actual oil and gas tax revenues deposited in the strategic investment and improvements fund during the 2017-19 biennium exceed \$755 million. The contingency was met, and the amount shown for the 2019-21 biennium reflects the actual transfer to the infrastructure revolving loan fund.

⁶These amounts represent mineral revenues received from areas of the Yellowstone and Missouri Rivers and Lake Sakakawea where mineral rights are in dispute. Pursuant to action of the Board of University and School Lands, this portion of the fund balance is designated to be held in reserve. The assigned fund balance is adjusted only when approved by the board, which is usually done in August of each year.

⁷Senate Bill No. 2287 (2013) increased the guarantee reserve fund balance from 25 to 100 percent, not to exceed a total of \$25 million, through July 31, 2015. After July 31, 2015, the amount of reserves for all guaranteed loans must be determined by a formula that will provide an adequate amount of reserves as determined by the Bank of North Dakota. Money may be transferred from the strategic investment and improvements fund to reimburse lenders for guaranteed loans in default.

Senate Bill No. 2296 (2019) increased the limit for loan guarantees to \$50 million. Senate Bill No. 2230 (2021) increases the loan guarantee limit to \$80 million.

FUND HISTORY

House Bill No. 1451 (2011) provided the lands and minerals trust fund be renamed the strategic investment and improvements fund, and as soon as feasible after June 30, 2011, the State Treasurer close out the lands and minerals trust fund and transfer any remaining unobligated balance to the strategic investment and improvements fund. The lands and minerals trust fund originated in 1977 when the Legislative Assembly transferred to the Board of University and School Lands possessory interest in properties obtained by the Bank of North Dakota, including tracts of real property and reserved mineral interests.

All income from the sale, lease, and management of the mineral interests relating to these properties is deposited in the strategic investment and improvements fund, pursuant to North Dakota Century Code Section 15-08.1-08. The principal and interest of the fund may be used for one-time expenditures relating to improving state infrastructure or for initiatives to improve the efficiency and effectiveness of state government. Money in the fund may be included in draft appropriation Acts under Section 54-44.1-06 and may be appropriated by the Legislative Assembly, but only to the extent the money is estimated to be available at the beginning of the biennium in which the appropriations are authorized.

Prior to July 1, 2015, if the unobligated balance of the strategic investment and improvements fund exceeded \$300 million at the end of any month, 25 percent of any revenues received for deposit in the strategic investment and improvements fund were deposited instead into the legacy fund in the subsequent month. In House Bill Nos. 1176 and 1377 (2015), the Legislative Assembly amended Section 15-08.1-08 to remove the provision related to the additional deposits of revenue in the legacy fund from the strategic investment and improvements fund. The unobligated balance in the fund is defined as the balance in the fund reduced by appropriations or transfers from the fund authorized by the Legislative Assembly, guarantee reserve fund requirements under Section 6-09.7-05, and any fund balance designated by the Board of University and School Lands relating to potential title disputes related to certain riverbed leases.

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301
2023-25 Ongoing Funding Changes								
Base payroll changes	1.60	\$122,123	\$18,337	\$140,460				\$0
Salary increase		940,148	367,690	1,307,838				0
Health insurance increase		370,078	161,832	531,910				0
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)				0
Total ongoing funding changes	1.60	\$1,369,176	\$547,859	\$1,917,035	0.00	\$0	\$0	\$0
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	1.60	\$1,369,176	\$547,859	\$1,917,035	0.00	\$0	\$0	\$0
2023-25 Total Funding	109.81	\$19,938,659	\$21,270,677	\$41,209,336	108.21	\$18,569,483	\$20,722,818	\$39,292,301
<i>Federal funds included in other funds</i>			\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	0.0%	0.0%	0.0%	0.0%
<i>Total changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	0.0%	0.0%	0.0%	0.0%

Other Sections in Branch research centers - Budget No. 628

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Dickinson Research Extension Center - Mineral rights income	Section 4 would authorize the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 4 would authorize the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.
Williston Research Extension Center - Mineral rights income	Section 5 would direct the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 5 would direct the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Other Sections in Branch research centers - Budget No. 628

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provide that any adjustments be reported to OMB.	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the Main Research Center deferred maintenance and equipment storage sheds, is from the strategic investment and improvements fund.	
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744
2023-25 Ongoing Funding Changes								
Base payroll changes	8.93	\$227,797	\$108,985	\$336,782				\$0
Salary increase		1,551,009	1,622,297	3,173,306				0
Health insurance increase		717,932	714,138	1,432,070				0
Adds funding for the cropping system initiative		1,400,000		1,400,000				0
Total ongoing funding changes	8.93	\$3,896,738	\$2,445,420	\$6,342,158	0.00	\$0	\$0	\$0
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	8.93	\$3,896,738	\$2,445,420	\$6,342,158	0.00	\$0	\$0	\$0
2023-25 Total Funding	250.70	\$33,334,561	\$30,749,341	\$64,083,902	241.77	\$29,437,823	\$28,303,921	\$57,741,744
<i>Federal funds included in other funds</i>			\$9,458,045				\$0	
<i>Total ongoing changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	0.0%	0.0%	0.0%	0.0%
<i>Total changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	0.0%	0.0%	0.0%	0.0%

Other Sections in NDSU Extension Service - Budget No. 630

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Northern Crops Institute - Budget No. 638
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	13.55	\$1,987,142	\$1,922,618	\$3,909,760	13.55	\$1,987,142	\$1,922,618	\$3,909,760
2023-25 Ongoing Funding Changes								
Base payroll changes	4.60	\$16,505	\$16,610	\$33,115				\$0
Salary increase		111,856	115,435	227,291				0
Health insurance increase		53,390	46,462	99,852				0
Retirement contribution increase				0				0
Increases funding to reflect available special funds			1,500,000	1,500,000				0
Total ongoing funding changes	4.60	\$181,751	\$1,678,507	\$1,860,258	0.00	\$0	\$0	\$0
One-Time Funding Items								
Adds funding from SIIF for the Northern Crops Institute Feed Production Center facility upgrade			\$3,250,000	\$3,250,000				\$0
Adds funding from SIIF for a new pellet mill			650,000	650,000				0
Total one-time funding changes	0.00	\$0	\$3,900,000	\$3,900,000	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	4.60	\$181,751	\$5,578,507	\$5,760,258	0.00	\$0	\$0	\$0
2023-25 Total Funding	18.15	\$2,168,893	\$7,501,125	\$9,670,018	13.55	\$1,987,142	\$1,922,618	\$3,909,760
<i>Federal funds included in other funds</i>			\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	33.9%	9.1%	87.3%	47.6%	0.0%	0.0%	0.0%	0.0%
<i>Total changes as a percentage of base level</i>	33.9%	9.1%	290.2%	147.3%	0.0%	0.0%	0.0%	0.0%

Other Sections in Northern Crops Institute - Budget No. 638

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.

Other Sections in Northern Crops Institute - Budget No. 638

Executive Budget Recommendation

House Version

FTE position adjustments

Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provide that any adjustments be reported to OMB.

Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provide that any adjustments be reported to OMB.

Unexpended general fund - Excess income

Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.

Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.

Strategic investment and improvements fund

Section 10 would provide that \$6.52 million, including \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill, is from SIIF.

Agronomy Seed Farm - Budget No. 649
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	3.00	\$0	\$1,579,655	\$1,579,655	3.00	\$0	\$1,579,655	\$1,579,655
2023-25 Ongoing Funding Changes								
Base payroll changes			\$4,604	\$4,604				\$0
Salary increase			38,385	38,385				0
Health insurance increase			15,432	15,432				0
Total ongoing funding changes	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$0	\$0
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$0	\$0
2023-25 Total Funding	3.00	\$0	\$1,638,076	\$1,638,076	3.00	\$0	\$1,579,655	\$1,579,655
<i>Federal funds included in other funds</i>			\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		0.0%	0.0%
<i>Total changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		0.0%	0.0%

Other Sections in Agronomy Seed Farm - Budget No. 649

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provide that any adjustments be reported to the Office of Management and Budget.

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188
2023-25 Ongoing Funding Changes								
Base payroll changes	22.91	\$392,772	\$117,136	\$509,908				\$0
Salary increase		3,228,061	1,689,401	4,917,462				0
Health insurance increase		1,293,770	713,216	2,006,986				0
Adds funding for the big data initiative, including \$637,998 for salaries and \$200,002 for operating costs		838,000		838,000				0
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs		458,200		458,200				0
Adds funding for bee and apiary research, including \$418,200 for salaries and \$40,000 for operating costs		458,200		458,200				0
Adds funding for precision agriculture		600,000		600,000				0
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)				0
Total ongoing funding changes	22.91	\$7,090,934	\$2,519,753	\$9,610,687	0.00	\$0	\$0	\$0
One-Time Funding Items								
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000				\$0
Adds funding from SIIF for deferred maintenance			720,000	720,000				0
Total one-time funding changes	0.00	\$0	\$2,620,000	\$2,620,000	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	22.91	\$7,090,934	\$5,139,753	\$12,230,687	0.00	\$0	\$0	\$0
2023-25 Total Funding	357.47	\$61,679,166	\$62,227,709	\$123,906,875	334.56	\$54,588,232	\$57,087,956	\$111,676,188
<i>Federal funds included in other funds</i>			\$8,449,779				\$0	
<i>Total ongoing changes as a percentage of base level</i>	6.8%	13.0%	4.4%	8.6%	0.0%	0.0%	0.0%	0.0%
<i>Total changes as a percentage of base level</i>	6.8%	13.0%	9.0%	11.0%	0.0%	0.0%	0.0%	0.0%

Other Sections in NDSU Main Research Center - Budget No. 640

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Other Sections in NDSU Main Research Center - Budget No. 640

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to the Office of Management and Budget.	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to the Office of Management and Budget.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provide that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the NDSU Main Research Center deferred maintenance and equipment storage sheds, is from SIIF.	
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	

Upper Great Plains Transportation Institute - Budget No. 627
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	43.88	\$4,485,607	\$19,042,350	\$23,527,957	43.88	\$4,485,607	\$19,042,350	\$23,527,957	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes			\$77,856	\$77,856			\$77,856	\$77,856				\$0
Salary increase		\$237,004	546,153	783,157		\$174,237	404,585	578,822		(\$62,767)	(\$141,568)	(204,335)
Health insurance increase		68,100	139,764	207,864		69,667	142,980	212,647		1,567	3,216	4,783
Adds funding for freight transportation and logistics surveys				0		300,000		300,000		300,000		300,000
Total ongoing funding changes	0.00	\$305,104	\$763,773	\$1,068,877	0.00	\$543,904	\$625,421	\$1,169,325	0.00	\$238,800	(\$138,352)	\$100,448
One-Time Funding Items												
Adds funding for a transportation data intelligence center		\$432,600		\$432,600			\$432,600	\$432,600		(\$432,600)	\$432,600	\$0
Adds funding for multimodal carbon dioxide transportation study				0		\$398,450		398,450		398,450		398,450
Total one-time funding changes	0.00	\$432,600	\$0	\$432,600	0.00	\$398,450	\$432,600	\$831,050	0.00	(\$34,150)	\$432,600	\$398,450
Total Changes to Base Level Funding	0.00	\$737,704	\$763,773	\$1,501,477	0.00	\$942,354	\$1,058,021	\$2,000,375	0.00	\$204,650	\$294,248	\$498,898
2023-25 Total Funding	43.88	\$5,223,311	\$19,806,123	\$25,029,434	43.88	\$5,427,961	\$20,100,371	\$25,528,332	0.00	\$204,650	\$294,248	\$498,898
<i>Federal funds included in other funds</i>			\$12,715,395				\$12,630,651				(\$84,744)	
<i>Total ongoing changes as a percentage of base level</i>	0.0%	6.8%	4.0%	4.5%	0.0%	12.1%	3.3%	5.0%				
<i>Total changes as a percentage of base level</i>	0.0%	16.4%	4.0%	6.4%	0.0%	21.0%	5.6%	8.5%				

Other Sections in Upper Great Plains Transportation Institute - Budget No. 627

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provide that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.	Section 8 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.
Strategic investment and improvements fund		Section 10 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes	1.60	\$122,123	\$18,337	\$140,460	1.60	\$122,123	\$18,337	\$140,460				\$0
Salary increase		940,148	367,690	1,307,838		704,177	275,766	979,943	(235,971)	(91,924)		(327,895)
Health insurance increase		370,078	161,832	531,910		378,591	165,555	544,146	8,513	3,723		12,236
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)		(63,173)		(63,173)				0
Adds funding for one FTE technician position for clubroot fungus at the Langdon Research Center				0			250,000	250,000			250,000	250,000
Total ongoing funding changes	1.60	\$1,369,176	\$547,859	\$1,917,035	1.60	\$1,141,718	\$709,658	\$1,851,376	0.00	(\$227,458)	\$161,799	(\$65,659)
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	1.60	\$1,369,176	\$547,859	\$1,917,035	1.60	\$1,141,718	\$709,658	\$1,851,376	0.00	(\$227,458)	\$161,799	(\$65,659)
2023-25 Total Funding	109.81	\$19,938,659	\$21,270,677	\$41,209,336	109.81	\$19,711,201	\$21,432,476	\$41,143,677	0.00	(\$227,458)	\$161,799	(\$65,659)
<i>Federal funds included in other funds</i>			\$0				\$250,000				\$250,000	
<i>Total ongoing changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	1.5%	6.1%	3.4%	4.7%				
<i>Total changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	1.5%	6.1%	3.4%	4.7%				

Other Sections in Branch research centers - Budget No. 628

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Dickinson Research Extension Center - Mineral rights income	Section 4 would authorize the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 4 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.
Williston Research Extension Center - Mineral rights income	Section 5 would direct the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 5 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Other Sections in Branch research centers - Budget No. 628

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provide that any adjustments be reported to OMB.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 8 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 9 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the Main Research Center deferred maintenance and equipment storage sheds, is from the strategic investment and improvements fund.	Section 10 provides that \$1.2 million for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE	General	Other	Total	FTE	General	Other	Total	FTE	General	Other	Total
	Positions	Fund	Funds		Positions	Fund	Funds		Positions	Fund	Funds	
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes	8.93	\$227,797	\$108,985	\$336,782	5.00	\$227,797	\$108,985	\$336,782	(3.93)			\$0
Salary increase		1,551,009	1,622,297	3,173,306		1,158,661	1,213,811	2,372,472		(392,348)	(408,486)	(800,834)
Health insurance increase		717,932	714,138	1,432,070		723,217	741,796	1,465,013		5,285	27,658	32,943
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative		1,400,000		1,400,000	2.00	700,000		700,000	2.00	(700,000)		(700,000)
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist				0	2.00	500,000		500,000	2.00	500,000		500,000
Adds funding for farm and ranch safety and health initiative				0		250,000		250,000		250,000		250,000
Program support for 4-H initiative				0		320,000		320,000		320,000		320,000
Adds funding for state soil conservation committee operating support				0		300,000		300,000		300,000		300,000
Total ongoing funding changes	8.93	\$3,896,738	\$2,445,420	\$6,342,158	9.00	\$4,179,675	\$2,064,592	\$6,244,267	0.07	\$282,937	(\$380,828)	(\$97,891)
One-Time Funding Items				\$0				\$0				\$0
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	8.93	\$3,896,738	\$2,445,420	\$6,342,158	9.00	\$4,179,675	\$2,064,592	\$6,244,267	0.07	\$282,937	(\$380,828)	(\$97,891)
2023-25 Total Funding	250.70	\$33,334,561	\$30,749,341	\$64,083,902	250.77	\$33,617,498	\$30,368,513	\$63,986,011	0.07	\$282,937	(\$380,828)	(\$97,891)
<i>Federal funds included in other funds</i>			\$9,458,045				\$9,326,767				(\$131,278)	
<i>Total ongoing changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	3.7%	14.2%	7.3%	10.8%				
<i>Total changes as a percentage of base level</i>	3.7%	13.2%	8.6%	11.0%	3.7%	14.2%	7.3%	10.8%				

Other Sections in NDSU Extension Service - Budget No. 630

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.	Section 8 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Northern Crops Institute - Budget No. 638
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	13.55	\$1,987,142	\$1,922,618	\$3,909,760	13.55	\$1,987,142	\$1,922,618	\$3,909,760	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes	4.60	\$16,505	\$16,610	\$33,115	4.60	\$16,505	\$16,610	\$33,115				\$0
Salary increase		111,856	115,435	227,291		98,273	102,187	200,460		(\$13,583)	(\$13,248)	(26,831)
Health insurance increase		53,390	46,462	99,852		54,618	47,531	102,149		1,228	1,069	2,297
Increases funding to reflect available special funds			1,500,000	1,500,000			1,500,000	1,500,000				0
Total ongoing funding changes	4.60	\$181,751	\$1,678,507	\$1,860,258	4.60	\$169,396	\$1,666,328	\$1,835,724	0.00	(\$12,355)	(\$12,179)	(\$24,534)
One-Time Funding Items												
Adds funding from SIIF for the Northern Crops Institute Feed Production Center facility upgrade			\$3,250,000	\$3,250,000			\$3,250,000	\$3,250,000				\$0
Adds funding from SIIF for a new pellet mill			650,000	650,000			650,000	650,000				0
Total one-time funding changes	0.00	\$0	\$3,900,000	\$3,900,000	0.00	\$0	\$3,900,000	\$3,900,000	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	4.60	\$181,751	\$5,578,507	\$5,760,258	4.60	\$169,396	\$5,566,328	\$5,735,724	0.00	(\$12,355)	(\$12,179)	(\$24,534)
2023-25 Total Funding	18.15	\$2,168,893	\$7,501,125	\$9,670,018	18.15	\$2,156,538	\$7,488,946	\$9,645,484	0.00	(\$12,355)	(\$12,179)	(\$24,534)
<i>Federal funds included in other funds</i>			\$0				\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	33.9%	9.1%	87.3%	47.6%	33.9%	8.5%	86.7%	47.0%				
<i>Total changes as a percentage of base level</i>	33.9%	9.1%	290.2%	147.3%	33.9%	8.5%	289.5%	146.7%				

Other Sections in Northern Crops Institute - Budget No. 638

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 6 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provide that any adjustments be reported to OMB.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provide that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.	Section 8 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill, is from SIIF.	Section 10 provides \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill is from SIIF.

Agronomy Seed Farm - Budget No. 649
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE	General	Other	Total	FTE	General	Other	Total	FTE	General	Other	Total
	Positions	Fund	Funds		Positions	Fund	Funds		Positions	Fund	Funds	
2023-25 Biennium Base Level	3.00	\$0	\$1,579,655	\$1,579,655	3.00	\$0	\$1,579,655	\$1,579,655	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes			\$4,604	\$4,604			\$4,604	\$4,604				\$0
Salary increase			38,385	38,385			28,748	28,748			(9,637)	(9,637)
Health insurance increase			15,432	15,432			15,787	15,787			355	355
Total ongoing funding changes	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$49,139	\$49,139	0.00	\$0	(\$9,282)	(\$9,282)
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$49,139	\$49,139	0.00	\$0	(\$9,282)	(\$9,282)
2023-25 Total Funding	3.00	\$0	\$1,638,076	\$1,638,076	3.00	\$0	\$1,628,794	\$1,628,794	0.00	\$0	(\$9,282)	(\$9,282)
<i>Federal funds included in other funds</i>			\$0				\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		3.1%	3.1%				
<i>Total changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		3.1%	3.1%				

Other Sections in Agronomy Seed Farm - Budget No. 649

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provide that any adjustments be reported to the Office of Management and Budget.

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version				House Changes to Executive Budget Increase (Decrease) - Executive Budget			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes	22.91	\$392,772	\$117,136	\$509,908	22.91	\$392,772	\$117,136	\$509,908				\$0
Salary increase		3,228,061	1,689,401	4,917,462				0	(3,228,061)	(1,689,401)		(4,917,462)
Health insurance increase		1,293,770	713,216	2,006,986		1,293,770	713,216	2,006,986				0
Adds funding for the big data initiative, including \$637,998 for salaries and \$200,002 for operating costs		838,000		838,000		469,000		469,000	(369,000)			(369,000)
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs		458,200		458,200		458,200		458,200				0
Adds funding for bee and apiary research		458,200		458,200		262,000		262,000	(196,200)			(196,200)
Adds funding for precision agriculture		600,000		600,000		600,000		600,000				0
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)		(178,069)		(178,069)				0
Adds funding, including \$180,000 for graduate research assistants, \$180,000 in operating support, and \$200,000 for Oakes irrigation research site operating support				0		560,000		560,000	560,000			560,000
Adds funding for potato research				0		250,000		250,000	250,000			250,000
Total ongoing funding changes	22.91	\$7,090,934	\$2,519,753	\$9,610,687	22.91	\$4,107,673	\$830,352	\$4,938,025	0.00	(\$2,983,261)	(\$1,689,401)	(\$4,672,662)
One-Time Funding Items												
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000			\$700,000	\$700,000			(\$1,200,000)	(\$1,200,000)
Adds funding from SIIF for deferred maintenance			720,000	720,000			500,000	500,000			(220,000)	(220,000)
Adds funding for Nesson Valley Irrigation Research Site				0		1,700,000		1,700,000	1,700,000			1,700,000
Adds funding for branch research center capital project inflation				0		2,008,230	925,000	2,933,230	2,008,230	925,000		2,933,230
Total one-time funding changes	0.00	\$0	\$2,620,000	\$2,620,000	0.00	\$3,708,230	\$2,125,000	\$5,833,230	0.00	\$3,708,230	(\$495,000)	\$3,213,230
Total Changes to Base Level Funding	22.91	\$7,090,934	\$5,139,753	\$12,230,687	22.91	\$7,815,903	\$2,955,352	\$10,771,255	0.00	\$724,969	(\$2,184,401)	(\$1,459,432)
2023-25 Total Funding	357.47	\$61,679,166	\$62,227,709	\$123,906,875	357.47	\$62,404,135	\$60,043,308	\$122,447,443	0.00	\$724,969	(\$2,184,401)	(\$1,459,432)
<i>Federal funds included in other funds</i>			\$8,449,779				\$7,923,972				(\$525,807)	
<i>Total ongoing changes as a percentage of base level</i>	6.8%	13.0%	4.4%	8.6%	6.8%	7.5%	1.5%	4.4%				
<i>Total changes as a percentage of base level</i>	6.8%	13.0%	9.0%	11.0%	6.8%	14.3%	5.2%	9.6%				

Other Sections in NDSU Main Research Center - Budget No. 640

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 3 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Other Sections in NDSU Main Research Center - Budget No. 640

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to the Office of Management and Budget.	Section 6 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to the Office of Management and Budget.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provide that any adjustments be reported to the Office of Management and Budget.	Section 7 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provide that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 8 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 9 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the NDSU Main Research Center deferred maintenance and equipment storage sheds, is from SIIF.	Section 10 provides that \$1.2 million for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption		A new section will provide that \$1.2 million appropriated to the main research center for deferred maintenance and storage sheds is exempt from requirements for architects and engineers.
Emergency		A new section will declare the \$250,000 for potato research to be an emergency measure.

23.0249.01003

Sixty-eighth
Legislative Assembly
of North Dakota

HOUSE BILL NO. 1020

Introduced by

Appropriations Committee

1 A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota
2 state university extension service, northern crops institute, upper great plains transportation
3 institute, main research center, branch research centers, and agronomy seed farm; to provide
4 for a report; ~~and to provide for a transfer;~~ to provide an exemption; ~~and to declare an emergency.~~

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
7 as may be necessary, are appropriated out of any moneys in the general fund in the state
8 treasury, not otherwise appropriated, and from special funds derived from federal funds and
9 other income, to the North Dakota state university extension service, the northern crops
10 institute, the upper great plains transportation institute, the main research center, branch
11 research centers, and agronomy seed farm for the purpose of defraying the expenses of the
12 North Dakota state university extension service, the northern crops institute, the upper great
13 plains transportation institute, the main research center, branch research centers, and
14 agronomy seed farm, for the biennium beginning July 1, 2023, and ending June 30, 2025, as
15 follows:

16 Subdivision 1.

17 ~~NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE~~

	Governor's		
	Base Level	Recommendation	Appropriation
Extension service	\$56,530,224	\$62,872,382	\$56,530,224
Soil conservation committee	1,211,520	1,211,520	1,211,520
Total all funds	\$57,741,744	\$64,083,902	\$57,741,744
Less estimated income	28,303,921	30,749,341	28,303,921

1	Total general fund	\$29,437,823	\$33,334,561	\$29,437,823
2	Full-time equivalent positions	241.77	250.70	241.77
3	Subdivision 2.			
4	NORTHERN CROPS INSTITUTE			
5	Governor's			
6		Base Level	Recommendation	Appropriation
7	Northern crops institute	\$3,909,760	\$9,670,018	\$3,909,760
8	Total all funds	\$3,909,760	\$9,670,018	\$3,909,760
9	Less estimated income	1,922,618	7,501,125	1,922,618
10	Total general fund	\$1,987,142	\$2,168,893	\$1,987,142
11	Full-time equivalent positions	13.55	18.15	13.55
12	Subdivision 3.			
13	UPPER GREAT PLAINS TRANSPORTATION INSTITUTE			
14	Governor's			
15		Base Level	Recommendation	Appropriation
16	Upper great plains transportation	\$23,527,957	\$25,029,434	\$23,527,957
17	institute			
18	Total all funds	\$23,527,957	\$25,029,434	\$23,527,957
19	Less estimated income	19,042,350	19,806,123	19,042,350
20	Total general fund	\$4,485,607	\$5,223,311	\$4,485,607
21	Full-time equivalent positions	43.88	43.88	43.88
22	Subdivision 4.			
23	MAIN RESEARCH CENTER			
24	Governor's			
25		Base Level	Recommendation	Appropriation
26	Main research center	\$111,676,188	\$123,906,875	\$111,676,188
27	Total all funds	\$111,676,188	\$123,906,875	\$111,676,188
28	Less estimated income	57,087,956	62,227,709	57,087,956
29	Total general fund	\$54,588,232	\$61,679,166	\$54,588,232
30	Full-time equivalent positions	334.56	357.47	334.56
31	Subdivision 5.			

BRANCH RESEARCH CENTERS			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$7,332,514	\$7,078,838
Central grasslands research center	3,553,320	3,697,275	3,553,320
Hettinger research center	5,174,885	5,451,042	5,174,885
Langdon research center	3,091,310	3,262,949	3,091,310
North Central research center	5,203,251	5,429,811	5,203,251
Williston research center	5,362,734	5,658,597	5,362,734
Carrington research center	9,827,963	10,377,148	9,827,963
Total all funds	\$39,292,301	\$41,209,336	\$39,292,301
Less estimated income	20,722,818	21,270,677	20,722,818
Total general fund	\$18,569,483	\$19,938,659	\$18,569,483
Full-time equivalent positions	108.21	109.81	108.21
Subdivision 6:			
AGRONOMY SEED FARM			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$1,638,076	\$1,579,655
Total special funds	\$1,579,655	\$1,638,076	\$1,579,655
Full-time equivalent positions	3.00	3.00	3.00
Subdivision 7:			
SECTION 1 TOTAL			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$122,344,590	\$109,068,287
Grand total other funds	128,659,318	143,193,051	128,659,318
Grand total all funds	\$237,727,605	\$265,537,641	\$237,727,605
NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE			
Adjustments or			
	<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>

1	Extension service	\$56,530,224	\$6,094,267	\$62,624,491
2	Soil conservation committee	1,211,520	150,000	1,361,520
3	Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
4	Less estimated income	28,303,921	2,064,592	30,368,513
5	Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
6	Full-time equivalent positions	241.77	13.93	255.70

7 Subdivision 2.

8 NORTHERN CROPS INSTITUTE

9		Adjustments or		
10		Base Level	Enhancements	Appropriation
11	Northern crops institute	\$3,909,760	\$5,735,724	\$9,645,484
12	Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
13	Less estimated income	1,922,618	5,566,328	7,488,946
14	Total general fund	\$1,987,142	\$169,396	\$2,156,538
15	Full-time equivalent positions	13.55	4.60	18.15

16 Subdivision 3.

17 UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

18		Adjustments or		
19		Base Level	Enhancements	Appropriation
20	Upper great plains transportation	\$23,527,957	\$2,000,375	\$25,528,332
21	institute			
22	Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
23	Less estimated income	19,042,350	1,058,021	20,100,371
24	Total general fund	\$4,485,607	\$942,354	\$5,427,961
25	Full-time equivalent positions	43.88	0.00	43.88

26 Subdivision 4.

27 MAIN RESEARCH CENTER

28		Adjustments or		
29		Base Level	Enhancements	Appropriation
30	Main research center	\$111,676,188	\$112,023,073	\$223,699,261
31	Total all funds	\$111,676,188	\$112,023,073	\$223,699,261

Sixty-eighth
Legislative Assembly

1	<u>Less estimated income</u>	57,087,956	102,273,971	159,361,927
2	<u>Total general fund</u>	\$54,588,232	\$9,749,102	\$64,337,334
3	<u>Full-time equivalent positions</u>	334.56	27.91	362.47
4	<u>Subdivision 5.</u>			
5	<u>BRANCH RESEARCH CENTERS</u>			
6			<u>Adjustments or</u>	
7		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
8	<u>Dickinson research center</u>	\$7,078,838	\$214,700	\$7,293,538
9	<u>Central grasslands research center</u>	3,553,320	115,371	3,668,691
10	<u>Hettinger research center</u>	5,174,885	233,889	5,408,774
11	<u>Langdon research center</u>	3,091,310	394,636	3,485,946
12	<u>North Central research center</u>	5,203,251	184,131	5,387,382
13	<u>Williston research center</u>	5,362,734	245,458	5,608,192
14	<u>Carrington research center</u>	9,827,963	463,191	10,291,154
15	<u>Total all funds</u>	\$39,292,301	\$1,851,376	\$41,143,677
16	<u>Less estimated income</u>	20,722,818	459,658	21,182,476
17	<u>Total general fund</u>	\$18,569,483	\$1,391,718	\$19,961,201
18	<u>Full-time equivalent positions</u>	108.21	2.60	110.81
19	<u>Subdivision 6.</u>			
20	<u>AGRONOMY SEED FARM</u>			
21			<u>Adjustments or</u>	
22		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
23	<u>Agronomy seed farm</u>	\$1,579,655	\$49,139	\$1,628,794
24	<u>Total special funds</u>	\$1,579,655	\$49,139	\$1,628,794
25	<u>Full-time equivalent positions</u>	3.00	0.00	3.00
26	<u>Subdivision 7.</u>			
27	<u>SECTION 1 TOTAL</u>			
28			<u>Adjustments or</u>	
29		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
30	<u>Grand total general fund</u>	\$109,068,287	\$16,432,245	\$125,500,532

1	<u>Grand total other funds</u>	<u>128,659,318</u>	<u>111,471,709</u>	<u>240,131,027</u>
2	<u>Grand total all funds</u>	<u>\$237,727,605</u>	<u>\$127,903,954</u>	<u>\$365,631,559</u>

3 **SECTION 2. ONE-TIME FUNDING - EFFECT ON BASE BUDGET - REPORT TO THE**
4 **SIXTY-NINTH LEGISLATIVE ASSEMBLY.** The following amounts reflect the one-time funding
5 items approved by the sixty-seventh legislative assembly for the 2021-23 biennium and the
6 2023-25 biennium one-time funding items included in section 1 of this Act:

7	<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
8	Deferred maintenance	\$500,000	\$0
9	<u>Deferred maintenance</u>	<u>\$500,000</u>	<u>\$500,000</u>
10	<u>Transportation data intelligence center</u>	<u>0</u>	<u>432,600</u>
11	<u>Multimodal carbon dioxide transportation study</u>	<u>0</u>	<u>398,450</u>
12	<u>Northern crops institute feed production center facility upgrade</u>	<u>0</u>	<u>3,250,000</u>
13	<u>Pellet mill</u>	<u>0</u>	<u>650,000</u>
14	<u>Storage sheds</u>	<u>0</u>	<u>700,000</u>
15	<u>Nesson Valley irrigation research site project</u>	<u>0</u>	<u>1,200,000</u>
16	<u>Branch research extension centers capital projects inflation</u>	<u>0</u>	<u>2,933,230</u>
17	<u>Hettinger research extension center land purchase</u>	<u>0</u>	<u>1,038,000</u>
18	<u>Waldron Hall replacement project</u>	<u>0</u>	<u>97,000,000</u>
19	Carrington research extension center capital projects	1,221,000	0
20	Central grasslands research extension center	2,488,000	0
21	capital projects		
22	Dickinson research extension center capital projects	2,200,000	0
23	Hettinger research extension center capital projects	3,720,000	0
24	Langdon research extension center capital projects	473,000	0
25	Remote sensing of infrastructure	<u>2,225,000</u>	<u>0</u>
26	Total all funds	\$12,827,000	\$0
27	Total other funds	12,327,000	0
28	Total general fund	\$500,000	\$0
29	<u>Total all funds</u>	<u>\$12,827,000</u>	<u>\$108,102,280</u>
30	<u>Total other funds</u>	<u>12,327,000</u>	<u>104,495,600</u>
31	<u>Total general fund</u>	<u>\$500,000</u>	<u>\$3,606,680</u>

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS

INCOME. The Dickinson research extension center may spend up to \$755,000 of revenues received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS

INCOME - REPORT. The Williston research extension center shall report to the sixty-ninth legislative assembly on amounts received and spent from mineral royalties, leases, or easements in the biennium beginning July 1, 2021, and ending June 30, 2023, and the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 5. ADDITIONAL INCOME - APPROPRIATION.

In addition to the amount included in the grand total other funds appropriation line item in section 1 of this Act, any other income, including funds from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota state university extension service, the northern crops institute, the upper great plains transportation institute, the main research center, branch research centers, and agronomy seed farm, except as otherwise provided by law, is appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS

INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act

1 includes the sum of \$98,200,000 from the strategic investment and improvements fund for the
2 Waldron Hall replacement project, storage sheds, and deferred maintenance.

3 **SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND -**
4 **NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND**

5 **AUTHORIZED.** The appropriation in subdivision 4 of section 1 of this Act includes the sum of
6 \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of
7 real property for the Hettinger research center, for the biennium beginning July 1, 2023, and
8 ending June 30, 2025. The Hettinger research center shall make payments in lieu of property
9 taxes in the manner and according to the conditions and procedures that would apply if the
10 property were privately owned. The North Dakota state university main research center is
11 authorized to purchase four parcels of land in Adams County, described as:

- 12 1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
- 13 2. A tract of land in the northeast quarter of the southeast quarter of section 13,
14 township 129 north, range 96, Adams County;
- 15 3. The southeast quarter of the southeast quarter of section 13, the north half of the
16 northeast quarter of section 24, township 129 north, range 96, Adams County; and
- 17 4. The north half of the north half of section 19, township 129 north, range 95, Adams
18 County.

19 **SECTION 8. EXEMPTION - TRANSFER AUTHORITY.** Notwithstanding section 54-16-04,
20 upon approval of the state board of agricultural research and education and appropriate branch
21 research center directors, the director of the office of management and budget shall transfer
22 appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act.

23 **SECTION 9. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS -**
24 **REPORT.** Notwithstanding any other provisions of law, the state board of higher education may
25 adjust or increase full-time equivalent positions as needed for the entities in section 1 of this
26 Act, subject to availability of funds. All full-time or part-time positions must be separate from
27 North Dakota state university. Annually, the board shall report to the office of management and
28 budget and to the budget section any adjustments made pursuant to this section.

29 **SECTION 10. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME.** Any
30 unexpended general fund appropriation authority available to and any excess income received
31 by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11,

1 and any unexpended funds from these appropriations or revenues are available and may be
2 expended by those entities, during the biennium beginning July 1, 2025, and ending June 30,
3 2027.

4 **SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.** The amounts
5 appropriated from other funds for Carrington research center capital projects, central grasslands
6 research center capital projects, and Langdon research center capital projects in subdivision 4
7 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section
8 54-44.1-11, and any unexpended funds from these appropriations or related revenues are
9 available and may be expended during the biennium beginning July 1, 2023, and ending
10 June 30, 2025.

11 **SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL**
12 **STATE FISCAL RECOVERY FUND.** The amounts appropriated from federal funds derived from
13 the state fiscal recovery fund for one-time projects at the Carrington research center, central
14 grasslands research center, Dickinson research center, and Hettinger research center in
15 section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the
16 provisions of section 54-44.1-11, and any unexpended funds from these appropriations are
17 available and may be expended during the biennium beginning July 1, 2023, and ending
18 June 30, 2025.

19 **SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT**
20 **CONSTRUCTION.** The main research center, for its use of the \$1,200,000 appropriated from
21 the strategic investment and improvements fund for deferred maintenance and branch research
22 center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main
23 research center may spend this funding without procuring plans, drawings, and specifications
24 from an architect or engineer.

25 **SECTION 14. EMERGENCY.** The \$250,000 appropriated from the general fund for a spud
26 research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency
27 measure.

23.0249.01003
Title.

Prepared by the Legislative Council staff for
the House Appropriations - Government
Operations Division Committee

Fiscal No. 1

February 8, 2023

PROPOSED AMENDMENTS TO HOUSE BILL NO. 1020

Page 1, line 4, replace "and" with "to provide for a transfer;"

Page 1, line 4, after "exemption" insert "; and to declare an emergency"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

" NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$6,094,267	\$62,624,491
Soil conservation committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
Full-time equivalent positions	241.77	13.93	255.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	<u>\$3,909,760</u>	<u>\$5,735,724</u>	<u>\$9,645,484</u>
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	<u>1,922,618</u>	<u>5,566,328</u>	<u>7,488,946</u>
Total general fund	\$1,987,142	\$169,396	\$2,156,538
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	<u>\$23,527,957</u>	<u>\$2,000,375</u>	<u>\$25,528,332</u>
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	<u>19,042,350</u>	<u>1,058,021</u>	<u>20,100,371</u>
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$112,023,073	\$223,699,261
Total all funds	\$111,676,188	\$112,023,073	\$223,699,261
Less estimated income	57,087,956	102,273,971	159,361,927
Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
Full-time equivalent positions	334.56	27.91	362.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
Central grasslands research center	3,553,320	115,371	3,668,691
Hettinger research center	5,174,885	233,889	5,408,774
Langdon research center	3,091,310	394,636	3,485,946
North Central research center	5,203,251	184,131	5,387,382
Williston research center	5,362,734	245,458	5,608,192
Carrington research center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
Full-time equivalent positions	108.21	2.60	110.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$49,139	\$1,628,794
Total special funds	\$1,579,655	\$49,139	\$1,628,794
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
Grand total other funds	128,659,318	111,471,709	240,131,027
Grand total all funds	\$237,727,605	\$127,903,954	\$365,631,559"

Page 3, line 29, after "**FUNDING**" insert "- **EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-NINTH LEGISLATIVE ASSEMBLY**"

Page 3, line 30, after "biennium" insert "and the 2023-25 biennium one-time funding items included in section 1 of this Act"

Page 4, replace line 2 with:

"Deferred maintenance	\$500,000	\$500,000
Transportation data intelligence center	0	432,600
Multimodal carbon dioxide transportation study	0	398,450
Northern crops institute feed production center facility upgrade	0	3,250,000
Pellet mill	0	650,000
Storage sheds	0	700,000
Nesson Valley irrigation research site project	0	1,200,000
Branch research extension centers capital projects inflation	0	2,933,230
Hettinger research extension center land purchase	0	1,038,000
Waldron Hall replacement project	0	97,000,000"

Page 4, replace lines 10 through 12 with:

"Total all funds	\$12,827,000	\$108,102,280
Total other funds	<u>12,327,000</u>	<u>104,495,600</u>
Total general fund	\$500,000	\$3,606,680

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025."

Page 4, after line 30, insert:

"SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act includes the sum of \$98,200,000 from the strategic investment and improvements fund for the Waldron Hall replacement project, storage sheds, and deferred maintenance.

SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND - NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND AUTHORIZED. The appropriation in subdivision 4 of section 1 of this Act includes the sum of \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of real property for the Hettinger research center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The Hettinger research center shall make payments in lieu of property taxes in the manner and according to the conditions and procedures that would apply if the property were privately owned. The North Dakota state university main research center is authorized to purchase four parcels of land in Adams County, described as:

1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
2. A tract of land in the northeast quarter of the southeast quarter of section 13, township 129 north, range 96, Adams County;

3. The southeast quarter of the southeast quarter of section 13, the north half of the northeast quarter of section 24, township 129 north, range 96, Adams County; and
4. The north half of the north half of section 19, township 129 north, range 95, Adams County."

Page 5, after line 16, insert:

"SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.

The amounts appropriated from other funds for Carrington research center capital projects, central grasslands research center capital projects, and Langdon research center capital projects in subdivision 4 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL STATE FISCAL RECOVERY FUND.

The amounts appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center, central grasslands research center, Dickinson research center, and Hettinger research center in section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT CONSTRUCTION.

The main research center, for its use of the \$1,200,000 appropriated from the strategic investment and improvements fund for deferred maintenance and branch research center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main research center may spend this funding without procuring plans, drawings, and specifications from an architect or engineer.

SECTION 14. EMERGENCY. The \$250,000 appropriated from the general fund for a spud research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency measure."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of House Action

	Base Budget	House Changes	House Version
Transportation Institute			
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88
Branch Research Centers			
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

NDSU Extension Service			
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70
Northern Crops Institute			
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15
Main Research Center			
Total all funds	\$111,676,188	\$112,023,073	\$223,699,261
Less estimated income	57,087,956	102,273,971	159,361,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47
Agronomy Seed Farm			
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00
Bill total			
Total all funds	\$237,727,605	\$127,903,954	\$365,631,559
Less estimated income	128,659,318	111,471,709	240,131,027
General fund	\$109,068,287	\$16,432,245	\$125,500,532
FTE	744.97	49.04	794.01

House Bill No. 1020 - Transportation Institute - House Action

	Base Budget	House Changes	House Version
Upper Great Plains Trans. Institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for Freight Transportation and Logistics Surveys ³	Adds One-Time Funding for a Transportation Data ⁴	Adds One-Time Funding for Carbon Dioxide Study ⁵	Total House Changes
Upper Great Plains Trans. Institute	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Total all funds	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Less estimated income	77,856	547,565	0	432,600	0	1,058,021
General fund	\$0	\$243,904	\$300,000	\$0	\$398,450	\$942,354
FTE	0.00	0.00	0.00	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$174,237	\$404,585	\$578,822
Health insurance increase	69,667	142,980	212,647
Total	\$243,904	\$547,565	\$791,469

³ Funding of \$300,000 from the general fund is added for freight transportation and logistics surveys.

⁴ One-time funding of \$432,600 from the strategic investment and improvements fund is added for a transportation data intelligence center.

⁵ One-time funding of \$398,450 from the general fund is added to study multimodal carbon dioxide transportation.

House Bill No. 1020 - Branch Research Centers - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Dickinson Research Center	\$7,078,838	\$214,700	\$7,293,538
Central Grasslands Research Center	3,553,320	115,371	3,668,691
Hettinger Research Center	5,174,885	233,889	5,408,774
Langdon Research Center	3,091,310	394,636	3,485,946
North Central Research Center	5,203,251	184,131	5,387,382
Williston Research Center	5,362,734	245,458	5,608,192
Carrington Research Center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

Department 628 - Branch Research Centers - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Reduces Funding for Bond Payments³</u>	<u>Adds Funding for a Technician FTE Position⁴</u>	<u>Total House Changes</u>
Dickinson Research Center	\$19,612	\$195,088			\$214,700
Central Grasslands Research Center	9,255	130,142	(\$24,026)		115,371
Hettinger Research Center	20,099	213,790			233,889
Langdon Research Center	13,531	131,105		\$250,000	394,636
North Central Research Center	17,989	205,289	(39,147)		184,131
Williston Research Center	22,154	223,304			245,458
Carrington Research Center	37,820	425,371			463,191
Total all funds	\$140,460	\$1,524,089	(\$63,173)	\$250,000	\$1,851,376
Less estimated income	18,337	441,321	0	0	459,658
General fund	\$122,123	\$1,082,768	(\$63,173)	\$250,000	\$1,391,718
FTE	1.60	0.00	0.00	1.00	2.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$121,415	\$0	\$121,415
Health insurance increase	<u>73,673</u>	<u>0</u>	<u>73,673</u>
Total	\$195,088	\$0	\$195,088
Central Grasslands Research Center			
Salary increase	\$68,822	\$19,232	\$88,054
Health insurance increase	<u>39,459</u>	<u>2,629</u>	<u>42,088</u>
Total	\$108,281	\$21,861	\$130,142
Hettinger Research Center			
Salary increase	\$101,119	\$31,571	\$132,690
Health insurance increase	<u>48,112</u>	<u>32,988</u>	<u>81,100</u>
Total	\$149,231	\$45,558	\$213,790
Langdon Research Center			
Salary increase	\$62,693	\$21,055	\$83,748
Health insurance increase	<u>33,370</u>	<u>13,987</u>	<u>47,357</u>
Total	\$96,063	\$35,042	\$131,105
North Central Research Center			
Salary increase	\$75,026	\$56,599	\$131,625
Health insurance increase	<u>40,476</u>	<u>33,188</u>	<u>73,664</u>
Total	\$115,502	\$89,787	\$205,289
Williston Research Center			
Salary increase	\$136,697	\$18,197	\$154,894
Health insurance increase	<u>57,886</u>	<u>10,524</u>	<u>68,410</u>
Total	\$194,583	\$28,721	\$223,304
Carrington Research Center			
Salary increase	\$138,405	\$129,112	\$267,517
Health insurance increase	<u>85,615</u>	<u>72,239</u>	<u>157,854</u>
Total	\$224,020	\$201,351	\$425,371
Total Branch Research Centers			
Salary increase	\$704,177	\$275,766	\$979,943
Health insurance increase	<u>378,591</u>	<u>165,555</u>	<u>544,146</u>
Total	\$1,082,768	\$441,321	\$1,524,089

³ Funding of \$63,173 is reduced from the general fund, including \$24,026 from the Central Grasslands Research Center and \$39,147 from the North Central Research Center, for bond payments, to provide a total of \$63,728 for bond payments for the 2023-25 biennium.

⁴ Funding of \$250,000 from the general fund is added for a new FTE technician position to research clubroot fungus at the Langdon Research Center.

House Bill No. 1020 - NDSU Extension Service - House Action

	Base Budget	House Changes	House Version
Extension Service	\$56,530,224	\$6,094,267	\$62,624,491
Soil Conservation Committee	<u>1,211,520</u>	150,000	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70

Department 630 - NDSU Extension Service - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Adds Funding for the Cropping System Initiative³	Adds Funding for the Livestock Development Initiative⁴	Adds Funding for Farm and Ranch Safety⁵	Adds Funding for 4-H⁶
Extension Service	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Soil Conservation Committee						
Total all funds	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Less estimated income	108,985	1,955,607	0	0	0	0
General fund	\$227,797	\$1,881,878	\$700,000	\$500,000	\$250,000	\$320,000
FTE	8.93	0.00	2.00	2.00	0.00	1.00

	Adds Funding for Extension and Soil Conservation Committee Operations⁷	Total House Changes
Extension Service	\$150,000	\$6,094,267
Soil Conservation Committee	150,000	150,000
Total all funds	\$300,000	\$6,244,267
Less estimated income	0	2,064,592
General fund	\$300,000	\$4,179,675
FTE	0.00	13.93

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$1,158,661	\$1,213,811	\$2,372,472
Health insurance increase	723,217	741,796	1,465,013
Total	\$1,881,878	\$1,955,607	\$3,837,485

³ Funding of \$700,000 from the general fund is added for 2 new FTE positions, including a soybean pathologist and a weed specialist, for the cropping system initiative.

⁴ Funding of \$500,000 from the general fund is added for 2 new FTE positions, including a veterinary epidemiologist and a swine specialist, for the livestock development initiative.

⁵ Funding of \$250,000 from the general fund is added for the farm and ranch safety and health initiative.

⁶ Funding of \$320,000 from the general fund is added for 1 new FTE position for the program support for 4-H initiative.

⁷ Funding of \$300,000 from the general fund is added for operations support, including \$150,000 for the Extension Service and \$150,000 for the state soil conservation committee.

House Bill No. 1020 - Northern Crops Institute - House Action

	Base Budget	House Changes	House Version
Northern Crops Institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15

Department 638 - Northern Crops Institute - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Increases Funding to Reflect Available Special Funds³</u>	<u>Adds One-Time Funding⁴</u>	<u>Total House Changes</u>
Northern Crops Institute	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Total all funds	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Less estimated income	16,610	149,718	1,500,000	3,900,000	5,566,328
General fund	\$16,505	\$152,891	\$0	\$0	\$169,396
FTE	4.60	0.00	0.00	0.00	4.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$98,273	\$102,187	\$200,460
Health insurance increase	54,618	47,531	102,149
Total	\$152,891	\$149,718	\$302,609

³ Funding of \$1.5 million from other funds is added to reflect special funds available to the agency.

⁴ One-time funding is added from the strategic investment and improvements fund for the Northern Crops Institute Feed Production Center facility upgrade (\$3,250,000) and a new pellet mill (\$650,000).

House Bill No. 1020 - Main Research Center - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Main Research Center	\$111,676,188	\$112,023,073	\$223,699,261
Total all funds	\$111,676,188	\$112,023,073	\$223,699,261
Less estimated income	57,087,956	102,273,971	159,361,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47

Department 640 - Main Research Center - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Adds Funding for the Big Data Initiative³</u>	<u>Adds Funding for Climate Smart Agriculture⁴</u>	<u>Adds Funding for Bee and Apiary Research⁵</u>	<u>Adds funding for the Spud Research Fast Track⁶</u>
Main Research Center	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Total all funds	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Less estimated income	117,136	1,993,835	0	0	0	0
General fund	\$392,772	\$3,726,969	\$469,000	\$458,200	\$262,000	\$250,000
FTE	22.91	0.00	1.00	2.00	1.00	1.00

	Adds Funding for Operations ⁷	Reduces Funding for Bond Payments ⁸	Adds One-Time Funding ⁹	Total House Changes
Main Research Center	\$1,160,000	(\$178,069)	\$103,371,230	\$112,023,073
Total all funds	\$1,160,000	(\$178,069)	\$103,371,230	\$112,023,073
Less estimated income	0	0	100,163,000	102,273,971
General fund	\$1,160,000	(\$178,069)	\$3,208,230	\$9,749,102
FTE	0.00	0.00	0.00	27.91

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$2,403,437	\$1,264,212	\$3,667,649
Health insurance increase	<u>1,323,532</u>	<u>729,623</u>	<u>2,053,155</u>
Total	\$3,726,969	\$1,993,835	\$5,720,804

³ Funding of \$469,000 from the general fund is added for a new FTE position and operating expenses for the big data initiative.

⁴ Funding of \$458,200 from the general fund is added for 2 new FTE positions to research climate smart agriculture.

⁵ Funding of \$262,000 from the general fund is added for a new FTE bee and apiary scientist position and related operating costs.

⁶ Funding of \$250,000 from the general fund is added to establish a spud research fast track.

⁷ Funding of \$1.1 million is added for operations as follows:

	<u>General Fund</u>
Precision agriculture	\$600,000
Graduate research assistants	180,000
Oakes irrigation research site operations	200,000
Other operations support	<u>180,000</u>
Total	\$1,160,000

⁸ Funding of \$178,069 from the general fund is reduced for bond payments to provide a total of \$178,477 for bond payments from the Main Research Center.

⁹ One-time funding, including funding from the strategic investment and improvements fund (SIIF) and the federal State Fiscal Recovery Fund, is added as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total Funds</u>
Storage sheds (SIIF)		\$700,000	\$700,000
Deferred maintenance (SIIF)		500,000	500,000
Nesson Valley irrigation research site capital project	\$1,200,000		1,200,000
Branch research centers capital project inflation	2,008,230	925,000	2,933,230
Hettinger Research Center land purchase (federal State Fiscal Recovery Fund)		1,038,000	1,038,000
Waldron Hall replacement project (SIIF)		<u>97,000,000</u>	<u>97,000,000</u>
Total	\$3,208,230	\$100,163,000	\$103,371,230

House Bill No. 1020 - Agronomy Seed Farm - House Action

	Base Budget	House Changes	House Version
Agronomy Seed Farm	\$1,579,655	\$49,139	\$1,628,794
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Total House Changes
Agronomy Seed Farm	\$4,604	\$44,535	\$49,139
Total all funds	\$4,604	\$44,535	\$49,139
Less estimated income	4,604	44,535	49,139
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	Other Funds
Salary increase	\$28,748
Health insurance increase	15,787
Total	\$44,535

23.0249.01004
Title.

Prepared by the Legislative Council staff for
the House Appropriations - Government
Operations Division Committee

Fiscal No. 2

February 9, 2023

PROPOSED AMENDMENTS TO HOUSE BILL NO. 1020

Page 1, line 4, replace "and" with "to provide for a transfer;"

Page 1, line 4, after "exemption" insert "; and to declare an emergency"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

" NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$6,094,267	\$62,624,491
Soil conservation committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
Full-time equivalent positions	241.77	13.93	255.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	<u>\$3,909,760</u>	<u>\$5,735,724</u>	<u>\$9,645,484</u>
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	<u>1,922,618</u>	<u>5,566,328</u>	<u>7,488,946</u>
Total general fund	\$1,987,142	\$169,396	\$2,156,538
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	<u>\$23,527,957</u>	<u>\$2,000,375</u>	<u>\$25,528,332</u>
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	<u>19,042,350</u>	<u>1,058,021</u>	<u>20,100,371</u>
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$223,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
Full-time equivalent positions	334.56	27.91	362.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
Central grasslands research center	3,553,320	115,371	3,668,691
Hettinger research center	5,174,885	233,889	5,408,774
Langdon research center	3,091,310	394,636	3,485,946
North Central research center	5,203,251	184,131	5,387,382
Williston research center	5,362,734	245,458	5,608,192
Carrington research center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
Full-time equivalent positions	108.21	2.60	110.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$49,139	\$1,628,794
Total special funds	\$1,579,655	\$49,139	\$1,628,794
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
Grand total other funds	128,659,318	112,671,709	241,331,027
Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559"

Page 3, line 29, after "**FUNDING**" insert "**- EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-NINTH LEGISLATIVE ASSEMBLY**"

Page 3, line 30, after "biennium" insert "and the 2023-25 biennium one-time funding items included in section 1 of this Act"

Page 4, replace line 2 with:

"Deferred maintenance	\$500,000	\$500,000
Transportation data intelligence center	0	432,600
Multimodal carbon dioxide transportation study	0	398,450
Northern crops institute feed production center facility upgrade	0	3,250,000
Pellet mill	0	650,000
Storage sheds	0	1,900,000
Nesson Valley irrigation research site project	0	1,200,000
Branch research extension centers capital projects inflation	0	2,933,230
Hettinger research extension center land purchase	0	1,038,000
Waldron Hall replacement project	0	97,000,000"

Page 4, replace lines 10 through 12 with:

"Total all funds	\$12,827,000	\$109,302,280
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,606,680

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025."

Page 4, after line 30, insert:

"SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act includes the sum of \$99,400,000 from the strategic investment and improvements fund for the Waldron Hall replacement project, storage sheds, and deferred maintenance.

SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND - NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND AUTHORIZED. The appropriation in subdivision 4 of section 1 of this Act includes the sum of \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of real property for the Hettinger research center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The Hettinger research center shall make payments in lieu of property taxes in the manner and according to the conditions and procedures that would apply if the property were privately owned. The North Dakota state university main research center is authorized to purchase four parcels of land in Adams County, described as:

1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
2. A tract of land in the northeast quarter of the southeast quarter of section 13, township 129 north, range 96, Adams County;

3. The southeast quarter of the southeast quarter of section 13, the north half of the northeast quarter of section 24, township 129 north, range 96, Adams County; and
4. The north half of the north half of section 19, township 129 north, range 95, Adams County."

Page 5, after line 16, insert:

"SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.

The amounts appropriated from other funds for Carrington research center capital projects, central grasslands research center capital projects, and Langdon research center capital projects in subdivision 4 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL STATE FISCAL RECOVERY FUND.

The amounts appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center, central grasslands research center, Dickinson research center, and Hettinger research center in section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT CONSTRUCTION. The main research center, for its use of the \$2,400,000 appropriated from the strategic investment and improvements fund for deferred maintenance and branch research center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main research center may spend this funding without procuring plans, drawings, and specifications from an architect or engineer.

SECTION 14. EMERGENCY. The \$250,000 appropriated from the general fund for a spud research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency measure."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of House Action

	Base Budget	House Changes	House Version
Transportation Institute			
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88
Branch Research Centers			
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

NDSU Extension Service			
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70
Northern Crops Institute			
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15
Main Research Center			
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47
Agronomy Seed Farm			
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00
Bill total			
Total all funds	\$237,727,605	\$129,103,954	\$366,831,559
Less estimated income	128,659,318	112,671,709	241,331,027
General fund	\$109,068,287	\$16,432,245	\$125,500,532
FTE	744.97	49.04	794.01

House Bill No. 1020 - Transportation Institute - House Action

	Base Budget	House Changes	House Version
Upper Great Plains Trans. Institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for Freight Transportation and Logistics Surveys ³	Adds One-Time Funding for a Transportation Data Center ⁴	Adds One-Time Funding for Carbon Dioxide Study ⁵	Total House Changes
Upper Great Plains Trans. Institute	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Total all funds	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Less estimated income	77,856	547,565	0	432,600	0	1,058,021
General fund	\$0	\$243,904	\$300,000	\$0	\$398,450	\$942,354
FTE	0.00	0.00	0.00	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$174,237	\$404,585	\$578,822
Health insurance increase	69,667	142,980	212,647
Total	\$243,904	\$547,565	\$791,469

³ Funding of \$300,000 from the general fund is added for freight transportation and logistics surveys.

⁴ One-time funding of \$432,600 from the strategic investment and improvements fund (SIIF) is added for a transportation data intelligence center.

⁵ One-time funding of \$398,450 from the general fund is added to study multimodal carbon dioxide transportation.

House Bill No. 1020 - Branch Research Centers - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Dickinson Research Center	\$7,078,838	\$214,700	\$7,293,538
Central Grasslands Research Center	3,553,320	115,371	3,668,691
Hettinger Research Center	5,174,885	233,889	5,408,774
Langdon Research Center	3,091,310	394,636	3,485,946
North Central Research Center	5,203,251	184,131	5,387,382
Williston Research Center	5,362,734	245,458	5,608,192
Carrington Research Center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

Department 628 - Branch Research Centers - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Reduces Funding for Bond Payments³</u>	<u>Adds Funding for a Technician FTE Position⁴</u>	<u>Total House Changes</u>
Dickinson Research Center	\$19,612	\$195,088			\$214,700
Central Grasslands Research Center	9,255	130,142	(\$24,026)		115,371
Hettinger Research Center	20,099	213,790			233,889
Langdon Research Center	13,531	131,105		\$250,000	394,636
North Central Research Center	17,989	205,289	(39,147)		184,131
Williston Research Center	22,154	223,304			245,458
Carrington Research Center	37,820	425,371			463,191
Total all funds	\$140,460	\$1,524,089	(\$63,173)	\$250,000	\$1,851,376
Less estimated income	18,337	441,321	0	0	459,658
General fund	\$122,123	\$1,082,768	(\$63,173)	\$250,000	\$1,391,718
FTE	1.60	0.00	0.00	1.00	2.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$121,415	\$0	\$121,415
Health insurance increase	<u>73,673</u>	<u>0</u>	<u>73,673</u>
Total	\$195,088	\$0	\$195,088
Central Grasslands Research Center			
Salary increase	\$68,822	\$19,232	\$88,054
Health insurance increase	<u>39,459</u>	<u>2,629</u>	<u>42,088</u>
Total	\$108,281	\$21,861	\$130,142
Hettinger Research Center			
Salary increase	\$101,119	\$31,571	\$132,690
Health insurance increase	<u>48,112</u>	<u>32,988</u>	<u>81,100</u>
Total	\$149,231	\$64,559	\$213,790
Langdon Research Center			
Salary increase	\$62,693	\$21,055	\$83,748
Health insurance increase	<u>33,370</u>	<u>13,987</u>	<u>47,357</u>
Total	\$96,063	\$35,042	\$131,105
North Central Research Center			
Salary increase	\$75,026	\$56,599	\$131,625
Health insurance increase	<u>40,476</u>	<u>33,188</u>	<u>73,664</u>
Total	\$115,502	\$89,787	\$205,289
Williston Research Center			
Salary increase	\$136,697	\$18,197	\$154,894
Health insurance increase	<u>57,886</u>	<u>10,524</u>	<u>68,410</u>
Total	\$194,583	\$28,721	\$223,304
Carrington Research Center			
Salary increase	\$138,405	\$129,112	\$267,517
Health insurance increase	<u>85,615</u>	<u>72,239</u>	<u>157,854</u>
Total	\$224,020	\$201,351	\$425,371
Total Branch Research Centers			
Salary increase	\$704,177	\$275,766	\$979,943
Health insurance increase	<u>378,591</u>	<u>165,555</u>	<u>544,146</u>
Total	\$1,082,768	\$441,321	\$1,524,089

³ Funding of \$63,173 is reduced from the general fund, including \$24,026 from the Central Grasslands Research Center and \$39,147 from the North Central Research Center, for bond payments, to provide a total of \$63,728 for bond payments for the 2023-25 biennium.

⁴ Funding of \$250,000 from the general fund is added for a new FTE technician position to research clubroot fungus at the Langdon Research Center.

House Bill No. 1020 - NDSU Extension Service - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Extension Service	\$56,530,224	\$6,094,267	\$62,624,491
Soil Conservation Committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70

Department 630 - NDSU Extension Service - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Adds Funding for the Cropping System Initiative³	Adds Funding for the Livestock Development Initiative⁴	Adds Funding for Farm and Ranch Safety⁵	Adds Funding for 4-H⁶
Extension Service	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Soil Conservation Committee						
Total all funds	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Less estimated income	108,985	1,955,607	0	0	0	0
General fund	\$227,797	\$1,881,878	\$700,000	\$500,000	\$250,000	\$320,000
FTE	8.93	0.00	2.00	2.00	0.00	1.00

	Adds Funding for Extension and Soil Conservation Committee Operations⁷	Total House Changes
Extension Service	\$150,000	\$6,094,267
Soil Conservation Committee	150,000	150,000
Total all funds	\$300,000	\$6,244,267
Less estimated income	0	2,064,592
General fund	\$300,000	\$4,179,675
FTE	0.00	13.93

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$1,158,661	\$1,213,811	\$2,372,472
Health insurance increase	723,217	741,796	1,465,013
Total	\$1,881,878	\$1,955,607	\$3,837,485

³ Funding of \$700,000 from the general fund is added for 2 new FTE positions, including a soybean pathologist and a weed specialist, for the cropping system initiative.

⁴ Funding of \$500,000 from the general fund is added for 2 new FTE positions, including a veterinary epidemiologist and a swine specialist, for the livestock development initiative.

⁵ Funding of \$250,000 from the general fund is added for the farm and ranch safety and health initiative.

⁶ Funding of \$320,000 from the general fund is added for 1 new FTE position for the program support for the 4-H initiative.

⁷ Funding of \$300,000 from the general fund is added for operations support, including \$150,000 for the Extension Service and \$150,000 for the state soil conservation committee.

House Bill No. 1020 - Northern Crops Institute - House Action

	Base Budget	House Changes	House Version
Northern Crops Institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15

Department 638 - Northern Crops Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Increases Funding to Reflect Available Special Funds³	Adds One-Time Funding⁴	Total House Changes
Northern Crops Institute	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Total all funds	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Less estimated income	16,610	149,718	1,500,000	3,900,000	5,566,328
General fund	\$16,505	\$152,891	\$0	\$0	\$169,396
FTE	4.60	0.00	0.00	0.00	4.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$98,273	\$102,187	\$200,460
Health insurance increase	54,618	47,531	102,149
Total	\$152,891	\$149,718	\$302,609

³ Funding of \$1.5 million from other funds is added to reflect special funds available to the agency.

⁴ One-time funding is added from SIIF for the Northern Crops Institute Feed Production Center facility upgrade (\$3,250,000) and a new pellet mill (\$650,000).

House Bill No. 1020 - Main Research Center - House Action

	Base Budget	House Changes	House Version
Main Research Center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47

Department 640 - Main Research Center - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Adds Funding for the Big Data Initiative³	Adds Funding for Climate Smart Agriculture⁴	Adds Funding for Bee and Apiary Research⁵	Adds funding for the Spud Research Fast Track⁶
Main Research Center	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Total all funds	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Less estimated income	117,136	1,993,835	0	0	0	0
General fund	\$392,772	\$3,726,969	\$469,000	\$458,200	\$262,000	\$250,000
FTE	22.91	0.00	1.00	2.00	1.00	1.00

	Adds Funding for Operations ⁷	Reduces Funding for Bond Payments ⁸	Adds One-Time Funding ⁹	Total House Changes
Main Research Center	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Total all funds	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Less estimated income	0	0	101,363,000	103,473,971
General fund	\$1,160,000	(\$178,069)	\$3,208,230	\$9,749,102
FTE	0.00	0.00	0.00	27.91

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$2,403,437	\$1,264,212	\$3,667,649
Health insurance increase	<u>1,323,532</u>	<u>729,623</u>	<u>2,053,155</u>
Total	\$3,726,969	\$1,993,835	\$5,720,804

³ Funding of \$469,000 from the general fund is added for a new FTE position and operating expenses for the big data initiative.

⁴ Funding of \$458,200 from the general fund is added for 2 new FTE positions to research climate smart agriculture.

⁵ Funding of \$262,000 from the general fund is added for a new FTE bee and apiary scientist position and related operating costs.

⁶ Funding of \$250,000 from the general fund is added for 1 new FTE position to assist with potato research.

⁷ Funding of \$1.1 million is added for operations as follows:

	<u>General Fund</u>
Precision agriculture	\$600,000
Graduate research assistants	180,000
Oakes irrigation research site operations	200,000
Other operations support	<u>180,000</u>
Total	\$1,160,000

⁸ Funding of \$178,069 from the general fund is reduced for bond payments to provide a total of \$178,477 for bond payments from the Main Research Center.

⁹ One-time funding, including funding from SIIF and the federal State Fiscal Recovery Fund, is added as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total Funds</u>
Storage sheds (SIIF)		\$1,900,000	\$1,900,000
Deferred maintenance (SIIF)		500,000	500,000
Nesson Valley irrigation research site capital project	\$1,200,000		1,200,000
Branch research centers capital project inflation	2,008,230	925,000	2,933,230
Hettinger Research Center land purchase (federal State Fiscal Recovery Fund)		1,038,000	1,038,000
Waldron Hall replacement project (SIIF)		<u>97,000,000</u>	<u>97,000,000</u>
Total	\$3,208,230	\$101,363,000	\$104,571,230

House Bill No. 1020 - Agronomy Seed Farm - House Action

	Base Budget	House Changes	House Version
Agronomy Seed Farm	\$1,579,655	\$49,139	\$1,628,794
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of House Changes

	Adjusts Funding for Base Payroll Changes¹	Adds Funding for Salary and Benefit Increases²	Total House Changes
Agronomy Seed Farm	\$4,604	\$44,535	\$49,139
Total all funds	\$4,604	\$44,535	\$49,139
Less estimated income	4,604	44,535	49,139
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	Other Funds
Salary increase	\$28,748
Health insurance increase	15,787
Total	\$44,535

House Bill No. 1020 - Other Changes - House Action

This amendment also:

- Adds a section to identify \$103,732,600 from SIIF, including \$3.9 million for the Northern Crops Institute feed production center facility upgrade and pellet mill, \$432,600 for the Upper Great Plains Transportation Institute transportation data intelligence center, and \$99.4 million for the main research center Waldron Hall replacement, deferred maintenance, and branch research center storage sheds.
- Adds a section to identify \$1,038,000 from the federal State Fiscal Recovery Fund for the purchase of land for the Hettinger Research Center.
- Adds sections to allow for funds appropriated for various capital projects at the branch research centers to be continued and expended during the 2023-25 biennium.
- Adds a section to exempt the main research center from Section 48-01.2-02.1, relating to procuring plans, drawings, and specifications from an architect or engineer, for the equipment storage sheds and deferred maintenance projects.
- Adds a section to declare the \$250,000 for the spud research fast track to be an emergency measure.

23.0249.01004

Sixty-eighth
Legislative Assembly
of North Dakota

HOUSE BILL NO. 1020

Introduced by

Appropriations Committee

1 A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota
2 state university extension service, northern crops institute, upper great plains transportation
3 institute, main research center, branch research centers, and agronomy seed farm; to provide
4 for a report; ~~and to provide for a transfer;~~ to provide an exemption; ~~and to declare an emergency.~~

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
7 as may be necessary, are appropriated out of any moneys in the general fund in the state
8 treasury, not otherwise appropriated, and from special funds derived from federal funds and
9 other income, to the North Dakota state university extension service, the northern crops
10 institute, the upper great plains transportation institute, the main research center, branch
11 research centers, and agronomy seed farm for the purpose of defraying the expenses of the
12 North Dakota state university extension service, the northern crops institute, the upper great
13 plains transportation institute, the main research center, branch research centers, and
14 agronomy seed farm, for the biennium beginning July 1, 2023, and ending June 30, 2025, as
15 follows:

16 Subdivision 1.

17 ~~NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE~~

	Governor's		
	Base Level	Recommendation	Appropriation
Extension service	\$56,530,224	\$62,872,382	\$56,530,224
Soil conservation committee	1,211,520	1,211,520	1,211,520
Total all funds	\$57,741,744	\$64,083,902	\$57,741,744
Less estimated income	28,303,921	30,749,341	28,303,921

1	Total general fund	\$29,437,823	\$33,334,561	\$29,437,823
2	Full-time equivalent positions	241.77	250.70	241.77
3	Subdivision 2.			
4	NORTHERN CROPS INSTITUTE			
5	Governor's			
6		Base Level	Recommendation	Appropriation
7	Northern crops institute	\$3,909,760	\$9,670,018	\$3,909,760
8	Total all funds	\$3,909,760	\$9,670,018	\$3,909,760
9	Less estimated income	1,922,618	7,501,125	1,922,618
10	Total general fund	\$1,987,142	\$2,168,893	\$1,987,142
11	Full-time equivalent positions	13.55	18.15	13.55
12	Subdivision 3.			
13	UPPER GREAT PLAINS TRANSPORTATION INSTITUTE			
14	Governor's			
15		Base Level	Recommendation	Appropriation
16	Upper great plains transportation	\$23,527,957	\$25,029,434	\$23,527,957
17	institute			
18	Total all funds	\$23,527,957	\$25,029,434	\$23,527,957
19	Less estimated income	19,042,350	19,806,123	19,042,350
20	Total general fund	\$4,485,607	\$5,223,311	\$4,485,607
21	Full-time equivalent positions	43.88	43.88	43.88
22	Subdivision 4.			
23	MAIN RESEARCH CENTER			
24	Governor's			
25		Base Level	Recommendation	Appropriation
26	Main research center	\$111,676,188	\$123,906,875	\$111,676,188
27	Total all funds	\$111,676,188	\$123,906,875	\$111,676,188
28	Less estimated income	57,087,956	62,227,709	57,087,956
29	Total general fund	\$54,588,232	\$61,679,166	\$54,588,232
30	Full-time equivalent positions	334.56	357.47	334.56
31	Subdivision 5.			

BRANCH RESEARCH CENTERS			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$7,332,514	\$7,078,838
Central grasslands research center	3,553,320	3,697,275	3,553,320
Hettinger research center	5,174,885	5,451,042	5,174,885
Langdon research center	3,091,310	3,262,949	3,091,310
North Central research center	5,203,251	5,429,811	5,203,251
Williston research center	5,362,734	5,658,597	5,362,734
Carrington research center	9,827,963	10,377,148	9,827,963
Total all funds	\$39,292,301	\$41,209,336	\$39,292,301
Less estimated income	20,722,818	21,270,677	20,722,818
Total general fund	\$18,569,483	\$19,938,659	\$18,569,483
Full-time equivalent positions	108.21	109.81	108.21
Subdivision 6:			
AGRONOMY SEED FARM			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$1,638,076	\$1,579,655
Total special funds	\$1,579,655	\$1,638,076	\$1,579,655
Full-time equivalent positions	3.00	3.00	3.00
Subdivision 7:			
SECTION 1 TOTAL			
Governor's			
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$122,344,590	\$109,068,287
Grand total other funds	128,659,318	143,193,051	128,659,318
Grand total all funds	\$237,727,605	\$265,537,641	\$237,727,605
NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE			
Adjustments or			
	<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>

1	Extension service	\$56,530,224	\$6,094,267	\$62,624,491
2	Soil conservation committee	1,211,520	150,000	1,361,520
3	Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
4	Less estimated income	28,303,921	2,064,592	30,368,513
5	Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
6	Full-time equivalent positions	241.77	13.93	255.70

7 Subdivision 2.

8 NORTHERN CROPS INSTITUTE

9		Adjustments or		
10		Base Level	Enhancements	Appropriation
11	Northern crops institute	\$3,909,760	\$5,735,724	\$9,645,484
12	Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
13	Less estimated income	1,922,618	5,566,328	7,488,946
14	Total general fund	\$1,987,142	\$169,396	\$2,156,538
15	Full-time equivalent positions	13.55	4.60	18.15

16 Subdivision 3.

17 UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

18		Adjustments or		
19		Base Level	Enhancements	Appropriation
20	Upper great plains transportation	\$23,527,957	\$2,000,375	\$25,528,332
21	institute			
22	Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
23	Less estimated income	19,042,350	1,058,021	20,100,371
24	Total general fund	\$4,485,607	\$942,354	\$5,427,961
25	Full-time equivalent positions	43.88	0.00	43.88

26 Subdivision 4.

27 MAIN RESEARCH CENTER

28		Adjustments or		
29		Base Level	Enhancements	Appropriation
30	Main research center	\$111,676,188	\$113,223,073	\$224,899,261
31	Total all funds	\$111,676,188	\$113,223,073	\$224,899,261

1	<u>Less estimated income</u>	57,087,956	103,473,971	160,561,927
2	<u>Total general fund</u>	\$54,588,232	\$9,749,102	\$64,337,334
3	<u>Full-time equivalent positions</u>	334.56	27.91	362.47
4	<u>Subdivision 5.</u>			
5	<u>BRANCH RESEARCH CENTERS</u>			
6			<u>Adjustments or</u>	
7		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
8	<u>Dickinson research center</u>	\$7,078,838	\$214,700	\$7,293,538
9	<u>Central grasslands research center</u>	3,553,320	115,371	3,668,691
10	<u>Hettinger research center</u>	5,174,885	233,889	5,408,774
11	<u>Langdon research center</u>	3,091,310	394,636	3,485,946
12	<u>North Central research center</u>	5,203,251	184,131	5,387,382
13	<u>Williston research center</u>	5,362,734	245,458	5,608,192
14	<u>Carrington research center</u>	9,827,963	463,191	10,291,154
15	<u>Total all funds</u>	\$39,292,301	\$1,851,376	\$41,143,677
16	<u>Less estimated income</u>	20,722,818	459,658	21,182,476
17	<u>Total general fund</u>	\$18,569,483	\$1,391,718	\$19,961,201
18	<u>Full-time equivalent positions</u>	108.21	2.60	110.81
19	<u>Subdivision 6.</u>			
20	<u>AGRONOMY SEED FARM</u>			
21			<u>Adjustments or</u>	
22		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
23	<u>Agronomy seed farm</u>	\$1,579,655	\$49,139	\$1,628,794
24	<u>Total special funds</u>	\$1,579,655	\$49,139	\$1,628,794
25	<u>Full-time equivalent positions</u>	3.00	0.00	3.00
26	<u>Subdivision 7.</u>			
27	<u>SECTION 1 TOTAL</u>			
28			<u>Adjustments or</u>	
29		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
30	<u>Grand total general fund</u>	\$109,068,287	\$16,432,245	\$125,500,532

1	<u>Grand total other funds</u>	<u>128,659,318</u>	<u>112,671,709</u>	<u>241,331,027</u>
2	<u>Grand total all funds</u>	<u>\$237,727,605</u>	<u>\$129,103,954</u>	<u>\$366,831,559</u>

3 **SECTION 2. ONE-TIME FUNDING - EFFECT ON BASE BUDGET - REPORT TO THE**
4 **SIXTY-NINTH LEGISLATIVE ASSEMBLY.** The following amounts reflect the one-time funding
5 items approved by the sixty-seventh legislative assembly for the 2021-23 biennium and the
6 2023-25 biennium one-time funding items included in section 1 of this Act:

7	<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
8	Deferred maintenance	\$500,000	\$0
9	<u>Deferred maintenance</u>	<u>\$500,000</u>	<u>\$500,000</u>
10	<u>Transportation data intelligence center</u>	<u>0</u>	<u>432,600</u>
11	<u>Multimodal carbon dioxide transportation study</u>	<u>0</u>	<u>398,450</u>
12	<u>Northern crops institute feed production center facility upgrade</u>	<u>0</u>	<u>3,250,000</u>
13	<u>Pellet mill</u>	<u>0</u>	<u>650,000</u>
14	<u>Storage sheds</u>	<u>0</u>	<u>1,900,000</u>
15	<u>Nesson Valley irrigation research site project</u>	<u>0</u>	<u>1,200,000</u>
16	<u>Branch research extension centers capital projects inflation</u>	<u>0</u>	<u>2,933,230</u>
17	<u>Hettinger research extension center land purchase</u>	<u>0</u>	<u>1,038,000</u>
18	<u>Waldron Hall replacement project</u>	<u>0</u>	<u>97,000,000</u>
19	Carrington research extension center capital projects	1,221,000	0
20	Central grasslands research extension center	2,488,000	0
21	capital projects		
22	Dickinson research extension center capital projects	2,200,000	0
23	Hettinger research extension center capital projects	3,720,000	0
24	Langdon research extension center capital projects	473,000	0
25	Remote sensing of infrastructure	<u>2,225,000</u>	<u>0</u>
26	Total all funds	\$12,827,000	\$0
27	Total other funds	12,327,000	0
28	Total general fund	\$500,000	\$0
29	<u>Total all funds</u>	<u>\$12,827,000</u>	<u>\$109,302,280</u>
30	<u>Total other funds</u>	<u>12,327,000</u>	<u>105,695,600</u>
31	<u>Total general fund</u>	<u>\$500,000</u>	<u>\$3,606,680</u>

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS

INCOME. The Dickinson research extension center may spend up to \$755,000 of revenues received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS

INCOME - REPORT. The Williston research extension center shall report to the sixty-ninth legislative assembly on amounts received and spent from mineral royalties, leases, or easements in the biennium beginning July 1, 2021, and ending June 30, 2023, and the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 5. ADDITIONAL INCOME - APPROPRIATION.

In addition to the amount included in the grand total other funds appropriation line item in section 1 of this Act, any other income, including funds from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota state university extension service, the northern crops institute, the upper great plains transportation institute, the main research center, branch research centers, and agronomy seed farm, except as otherwise provided by law, is appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act

1 includes the sum of \$99,400,000 from the strategic investment and improvements fund for the
2 Waldron Hall replacement project, storage sheds, and deferred maintenance.

3 **SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND -**
4 **NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND**

5 **AUTHORIZED.** The appropriation in subdivision 4 of section 1 of this Act includes the sum of
6 \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of
7 real property for the Hettinger research center, for the biennium beginning July 1, 2023, and
8 ending June 30, 2025. The Hettinger research center shall make payments in lieu of property
9 taxes in the manner and according to the conditions and procedures that would apply if the
10 property were privately owned. The North Dakota state university main research center is
11 authorized to purchase four parcels of land in Adams County, described as:

- 12 1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
- 13 2. A tract of land in the northeast quarter of the southeast quarter of section 13,
14 township 129 north, range 96, Adams County;
- 15 3. The southeast quarter of the southeast quarter of section 13, the north half of the
16 northeast quarter of section 24, township 129 north, range 96, Adams County; and
- 17 4. The north half of the north half of section 19, township 129 north, range 95, Adams
18 County.

19 **SECTION 8. EXEMPTION - TRANSFER AUTHORITY.** Notwithstanding section 54-16-04,
20 upon approval of the state board of agricultural research and education and appropriate branch
21 research center directors, the director of the office of management and budget shall transfer
22 appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act.

23 **SECTION 9. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS -**
24 **REPORT.** Notwithstanding any other provisions of law, the state board of higher education may
25 adjust or increase full-time equivalent positions as needed for the entities in section 1 of this
26 Act, subject to availability of funds. All full-time or part-time positions must be separate from
27 North Dakota state university. Annually, the board shall report to the office of management and
28 budget and to the budget section any adjustments made pursuant to this section.

29 **SECTION 10. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME.** Any
30 unexpended general fund appropriation authority available to and any excess income received
31 by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11,

1 and any unexpended funds from these appropriations or revenues are available and may be
2 expended by those entities, during the biennium beginning July 1, 2025, and ending June 30,
3 2027.

4 **SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.** The amounts
5 appropriated from other funds for Carrington research center capital projects, central grasslands
6 research center capital projects, and Langdon research center capital projects in subdivision 4
7 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section
8 54-44.1-11, and any unexpended funds from these appropriations or related revenues are
9 available and may be expended during the biennium beginning July 1, 2023, and ending
10 June 30, 2025.

11 **SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL**
12 **STATE FISCAL RECOVERY FUND.** The amounts appropriated from federal funds derived from
13 the state fiscal recovery fund for one-time projects at the Carrington research center, central
14 grasslands research center, Dickinson research center, and Hettinger research center in
15 section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the
16 provisions of section 54-44.1-11, and any unexpended funds from these appropriations are
17 available and may be expended during the biennium beginning July 1, 2023, and ending
18 June 30, 2025.

19 **SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT**
20 **CONSTRUCTION.** The main research center, for its use of the \$2,400,000 appropriated from
21 the strategic investment and improvements fund for deferred maintenance and branch research
22 center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main
23 research center may spend this funding without procuring plans, drawings, and specifications
24 from an architect or engineer.

25 **SECTION 14. EMERGENCY.** The \$250,000 appropriated from the general fund for a spud
26 research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency
27 measure.

23.0249.01004
Title.

Fiscal No. 2

Prepared by the Legislative Council staff for
the House Appropriations - Government
Operations Division Committee
February 9, 2023

PROPOSED AMENDMENTS TO HOUSE BILL NO. 1020

Page 1, line 4, replace "and" with "to provide for a transfer;"

Page 1, line 4, after "exemption" insert "; and to declare an emergency"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

" NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$6,094,267	\$62,624,491
Soil conservation committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
Full-time equivalent positions	241.77	13.93	255.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
Total general fund	\$1,987,142	\$169,396	\$2,156,538
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$223,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
Full-time equivalent positions	334.56	27.91	362.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
Central grasslands research center	3,553,320	115,371	3,668,691
Hettinger research center	5,174,885	233,889	5,408,774
Langdon research center	3,091,310	394,636	3,485,946
North Central research center	5,203,251	184,131	5,387,382
Williston research center	5,362,734	245,458	5,608,192
Carrington research center	9,827,963	463,191	10,291,154
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
Full-time equivalent positions	108.21	2.60	110.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$49,139	\$1,628,794
Total special funds	\$1,579,655	\$49,139	\$1,628,794
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
Grand total other funds	128,659,318	112,671,709	241,331,027
Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559"

Page 3, line 29, after "FUNDING" insert "- EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-NINTH LEGISLATIVE ASSEMBLY"

Page 3, line 30, after "biennium" insert "and the 2023-25 biennium one-time funding items included in section 1 of this Act"

Page 4, replace line 2 with:

"Deferred maintenance	\$500,000	\$500,000
Transportation data intelligence center	0	432,600
Multimodal carbon dioxide transportation study	0	398,450
Northern crops institute feed production center facility upgrade	0	3,250,000
Pellet mill	0	650,000
Storage sheds	0	1,900,000
Nesson Valley irrigation research site project	0	1,200,000
Branch research extension centers capital projects inflation	0	2,933,230
Hettinger research extension center land purchase	0	1,038,000
Waldron Hall replacement project	0	97,000,000"

Page 4, replace lines 10 through 12 with:

"Total all funds	\$12,827,000	\$109,302,280
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,606,680

The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The upper great plains transportation center, northern crops institute, and main research center shall report to the appropriations committees of the sixty-ninth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2023, and ending June 30, 2025."

Page 4, after line 30, insert:

"SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS INSTITUTE - MAIN RESEARCH CENTER. The estimated income line item in subdivision 2 of section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and improvements fund for the northern crops institute feed production center facility upgrade and pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the sum of \$432,600 from the strategic investment and improvements fund for a transportation data intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act includes the sum of \$99,400,000 from the strategic investment and improvements fund for the Waldron Hall replacement project, storage sheds, and deferred maintenance.

SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND - NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND AUTHORIZED. The appropriation in subdivision 4 of section 1 of this Act includes the sum of \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of real property for the Hettinger research center, for the biennium beginning July 1, 2023, and ending June 30, 2025. The Hettinger research center shall make payments in lieu of property taxes in the manner and according to the conditions and procedures that would apply if the property were privately owned. The North Dakota state university main research center is authorized to purchase four parcels of land in Adams County, described as:

1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
2. A tract of land in the northeast quarter of the southeast quarter of section 13, township 129 north, range 96, Adams County;

3. The southeast quarter of the southeast quarter of section 13, the north half of the northeast quarter of section 24, township 129 north, range 96, Adams County; and
4. The north half of the north half of section 19, township 129 north, range 95, Adams County."

Page 5, after line 16, insert:

"SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.

The amounts appropriated from other funds for Carrington research center capital projects, central grasslands research center capital projects, and Langdon research center capital projects in subdivision 4 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL STATE FISCAL RECOVERY FUND.

The amounts appropriated from federal funds derived from the state fiscal recovery fund for one-time projects at the Carrington research center, central grasslands research center, Dickinson research center, and Hettinger research center in section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations are available and may be expended during the biennium beginning July 1, 2023, and ending June 30, 2025.

SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT CONSTRUCTION.

The main research center, for its use of the \$2,400,000 appropriated from the strategic investment and improvements fund for deferred maintenance and branch research center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main research center may spend this funding without procuring plans, drawings, and specifications from an architect or engineer.

SECTION 14. EMERGENCY. The \$250,000 appropriated from the general fund for a spud research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency measure."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of House Action

	Base Budget	House Changes	House Version
Transportation Institute			
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88
Branch Research Centers			
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	20,722,818	459,658	21,182,476
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

NDSU Extension Service			
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	28,303,921	2,064,592	30,368,513
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70
Northern Crops Institute			
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15
Main Research Center			
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47
Agronomy Seed Farm			
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00
Bill total			
Total all funds	\$237,727,605	\$129,103,954	\$366,831,559
Less estimated income	128,659,318	112,671,709	241,331,027
General fund	\$109,068,287	\$16,432,245	\$125,500,532
FTE	744.97	49.04	794.01

House Bill No. 1020 - Transportation Institute - House Action

	Base Budget	House Changes	House Version
Upper Great Plains Trans. Institute	\$23,527,957	\$2,000,375	\$25,528,332
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	19,042,350	1,058,021	20,100,371
General fund	\$4,485,607	\$942,354	\$5,427,961
FTE	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for Freight Transportation and Logistics Surveys ³	Adds One-Time Funding for a Transportation Data Center ⁴	Adds One-Time Funding for Carbon Dioxide Study ⁵	Total House Changes
Upper Great Plains Trans. Institute	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Total all funds	\$77,856	\$791,469	\$300,000	\$432,600	\$398,450	\$2,000,375
Less estimated income	77,856	547,565	0	432,600	0	1,058,021
General fund	\$0	\$243,904	\$300,000	\$0	\$398,450	\$942,354
FTE	0.00	0.00	0.00	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$174,237	\$404,585	\$578,822
Health insurance increase	<u>69,667</u>	<u>142,980</u>	<u>212,647</u>
Total	\$243,904	\$547,565	\$791,469

³ Funding of \$300,000 from the general fund is added for freight transportation and logistics surveys.

⁴ One-time funding of \$432,600 from the strategic investment and improvements fund (SIIF) is added for a transportation data intelligence center.

⁵ One-time funding of \$398,450 from the general fund is added to study multimodal carbon dioxide transportation.

House Bill No. 1020 - Branch Research Centers - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Dickinson Research Center	\$7,078,838	\$214,700	\$7,293,538
Central Grasslands Research Center	3,553,320	115,371	3,668,691
Hettinger Research Center	5,174,885	233,889	5,408,774
Langdon Research Center	3,091,310	394,636	3,485,946
North Central Research Center	5,203,251	184,131	5,387,382
Williston Research Center	5,362,734	245,458	5,608,192
Carrington Research Center	<u>9,827,963</u>	<u>463,191</u>	<u>10,291,154</u>
Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
Less estimated income	<u>20,722,818</u>	<u>459,658</u>	<u>21,182,476</u>
General fund	\$18,569,483	\$1,391,718	\$19,961,201
FTE	108.21	2.60	110.81

Department 628 - Branch Research Centers - Detail of House Changes

	<u>Adjusts Funding for Base Payroll Changes¹</u>	<u>Adds Funding for Salary and Benefit Increases²</u>	<u>Reduces Funding for Bond Payments³</u>	<u>Adds Funding for a Technician FTE Position⁴</u>	<u>Total House Changes</u>
Dickinson Research Center	\$19,612	\$195,088			\$214,700
Central Grasslands Research Center	9,255	130,142	(\$24,026)		115,371
Hettinger Research Center	20,099	213,790			233,889
Langdon Research Center	13,531	131,105		\$250,000	394,636
North Central Research Center	17,989	205,289	(39,147)		184,131
Williston Research Center	22,154	223,304			245,458
Carrington Research Center	<u>37,820</u>	<u>425,371</u>			<u>463,191</u>
Total all funds	\$140,460	\$1,524,089	(\$63,173)	\$250,000	\$1,851,376
Less estimated income	<u>18,337</u>	<u>441,321</u>	<u>0</u>	<u>0</u>	<u>459,658</u>
General fund	\$122,123	\$1,082,768	(\$63,173)	\$250,000	\$1,391,718
FTE	1.60	0.00	0.00	1.00	2.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$121,415	\$0	\$121,415
Health insurance increase	<u>73,673</u>	<u>0</u>	<u>73,673</u>
Total	\$195,088	\$0	\$195,088
Central Grasslands Research Center			
Salary increase	\$68,822	\$19,232	\$88,054
Health insurance increase	<u>39,459</u>	<u>2,629</u>	<u>42,088</u>
Total	\$108,281	\$21,861	\$130,142
Hettinger Research Center			
Salary increase	\$101,119	\$31,571	\$132,690
Health insurance increase	<u>48,112</u>	<u>32,988</u>	<u>81,100</u>
Total	\$149,231	\$64,559	\$213,790
Langdon Research Center			
Salary increase	\$62,693	\$21,055	\$83,748
Health insurance increase	<u>33,370</u>	<u>13,987</u>	<u>47,357</u>
Total	\$96,063	\$35,042	\$131,105
North Central Research Center			
Salary increase	\$75,026	\$56,599	\$131,625
Health insurance increase	<u>40,476</u>	<u>33,188</u>	<u>73,664</u>
Total	\$115,502	\$89,787	\$205,289
Williston Research Center			
Salary increase	\$136,697	\$18,197	\$154,894
Health insurance increase	<u>57,886</u>	<u>10,524</u>	<u>68,410</u>
Total	\$194,583	\$28,721	\$223,304
Carrington Research Center			
Salary increase	\$138,405	\$129,112	\$267,517
Health insurance increase	<u>85,615</u>	<u>72,239</u>	<u>157,854</u>
Total	\$224,020	\$201,351	\$425,371
Total Branch Research Centers			
Salary increase	\$704,177	\$275,766	\$979,943
Health insurance increase	<u>378,591</u>	<u>165,555</u>	<u>544,146</u>
Total	\$1,082,768	\$441,321	\$1,524,089

³ Funding of \$63,173 is reduced from the general fund, including \$24,026 from the Central Grasslands Research Center and \$39,147 from the North Central Research Center, for bond payments, to provide a total of \$63,728 for bond payments for the 2023-25 biennium.

⁴ Funding of \$250,000 from the general fund is added for a new FTE technician position to research clubroot fungus at the Langdon Research Center.

House Bill No. 1020 - NDSU Extension Service - House Action

	<u>Base Budget</u>	<u>House Changes</u>	<u>House Version</u>
Extension Service	\$56,530,224	\$6,094,267	\$62,624,491
Soil Conservation Committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>
General fund	\$29,437,823	\$4,179,675	\$33,617,498
FTE	241.77	13.93	255.70

Department 630 - NDSU Extension Service - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Cropping System Initiative ³	Adds Funding for the Livestock Development Initiative ⁴	Adds Funding for Farm and Ranch Safety ⁵	Adds Funding for 4-H ⁶
Extension Service	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Soil Conservation Committee						
Total all funds	\$336,782	\$3,837,485	\$700,000	\$500,000	\$250,000	\$320,000
Less estimated income	108,985	1,955,607	0	0	0	0
General fund	\$227,797	\$1,881,878	\$700,000	\$500,000	\$250,000	\$320,000
FTE	8.93	0.00	2.00	2.00	0.00	1.00

	Adds Funding for Extension and Soil Conservation Committee Operations ⁷	Total House Changes
Extension Service	\$150,000	\$6,094,267
Soil Conservation Committee	150,000	150,000
Total all funds	\$300,000	\$6,244,267
Less estimated income	0	2,064,592
General fund	\$300,000	\$4,179,675
FTE	0.00	13.93

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$1,158,661	\$1,213,811	\$2,372,472
Health insurance increase	723,217	741,796	1,465,013
Total	\$1,881,878	\$1,955,607	\$3,837,485

³ Funding of \$700,000 from the general fund is added for 2 new FTE positions, including a soybean pathologist and a weed specialist, for the cropping system initiative.

⁴ Funding of \$500,000 from the general fund is added for 2 new FTE positions, including a veterinary epidemiologist and a swine specialist, for the livestock development initiative.

⁵ Funding of \$250,000 from the general fund is added for the farm and ranch safety and health initiative.

⁶ Funding of \$320,000 from the general fund is added for 1 new FTE position for the program support for the 4-H initiative.

⁷ Funding of \$300,000 from the general fund is added for operations support, including \$150,000 for the Extension Service and \$150,000 for the state soil conservation committee.

House Bill No. 1020 - Northern Crops Institute - House Action

	Base Budget	House Changes	House Version
Northern Crops Institute	\$3,909,760	\$5,735,724	\$9,645,484
Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
Less estimated income	1,922,618	5,566,328	7,488,946
General fund	\$1,987,142	\$169,396	\$2,156,538
FTE	13.55	4.60	18.15

Department 638 - Northern Crops Institute - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Increases Funding to Reflect Available Special Funds ³	Adds One-Time Funding ⁴	Total House Changes
Northern Crops Institute	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Total all funds	\$33,115	\$302,609	\$1,500,000	\$3,900,000	\$5,735,724
Less estimated income	16,610	149,718	1,500,000	3,900,000	5,566,328
General fund	\$16,505	\$152,891	\$0	\$0	\$169,396
FTE	4.60	0.00	0.00	0.00	4.60

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	General Fund	Other Funds	Total
Salary increase	\$98,273	\$102,187	\$200,460
Health insurance increase	54,618	47,531	102,149
Total	\$152,891	\$149,718	\$302,609

³ Funding of \$1.5 million from other funds is added to reflect special funds available to the agency.

⁴ One-time funding is added from SIIF for the Northern Crops Institute Feed Production Center facility upgrade (\$3,250,000) and a new pellet mill (\$650,000).

House Bill No. 1020 - Main Research Center - House Action

	Base Budget	House Changes	House Version
Main Research Center	\$111,676,188	\$113,223,073	\$224,899,261
Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
Less estimated income	57,087,956	103,473,971	160,561,927
General fund	\$54,588,232	\$9,749,102	\$64,337,334
FTE	334.56	27.91	362.47

Department 640 - Main Research Center - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Adds Funding for the Big Data Initiative ³	Adds Funding for Climate Smart Agriculture ⁴	Adds Funding for Bee and Apiary Research ⁵	Adds funding for the Spud Research Fast Track ⁶
Main Research Center	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Total all funds	\$509,908	\$5,720,804	\$469,000	\$458,200	\$262,000	\$250,000
Less estimated income	117,136	1,993,835	0	0	0	0
General fund	\$392,772	\$3,726,969	\$469,000	\$458,200	\$262,000	\$250,000
FTE	22.91	0.00	1.00	2.00	1.00	1.00

	Adds Funding for Operations ²	Reduces Funding for Bond Payments ³	Adds One-Time Funding ⁴	Total House Changes
Main Research Center	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Total all funds	\$1,160,000	(\$178,069)	\$104,571,230	\$113,223,073
Less estimated income	0	0	101,363,000	103,473,971
General fund	\$1,160,000	(\$178,069)	\$3,208,230	\$9,749,102
FTE	0.00	0.00	0.00	27.91

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases. FTE positions are also adjusted to reflect changes approved by the State Board of Higher Education pursuant to Section 8 of Senate Bill No. 2020 (2021).

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$2,403,437	\$1,264,212	\$3,667,649
Health insurance increase	1,323,532	729,623	2,053,155
Total	\$3,726,969	\$1,993,835	\$5,720,804

³ Funding of \$469,000 from the general fund is added for a new FTE position and operating expenses for the big data initiative.

⁴ Funding of \$458,200 from the general fund is added for 2 new FTE positions to research climate smart agriculture.

⁵ Funding of \$262,000 from the general fund is added for a new FTE bee and apiary scientist position and related operating costs.

⁶ Funding of \$250,000 from the general fund is added for 1 new FTE position to assist with potato research.

⁷ Funding of \$1.1 million is added for operations as follows:

	<u>General Fund</u>
Precision agriculture	\$600,000
Graduate research assistants	180,000
Oakes irrigation research site operations	200,000
Other operations support	180,000
Total	\$1,160,000

⁸ Funding of \$178,069 from the general fund is reduced for bond payments to provide a total of \$178,477 for bond payments from the Main Research Center.

⁹ One-time funding, including funding from SIIF and the federal State Fiscal Recovery Fund, is added as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total Funds</u>
Storage sheds (SIIF)		\$1,900,000	\$1,900,000
Deferred maintenance (SIIF)		500,000	500,000
Nesson Valley irrigation research site capital project	\$1,200,000		1,200,000
Branch research centers capital project inflation	2,008,230	925,000	2,933,230
Hettinger Research Center land purchase (federal State Fiscal Recovery Fund)		1,038,000	1,038,000
Waldron Hall replacement project (SIIF)		97,000,000	97,000,000
Total	\$3,208,230	\$101,363,000	\$104,571,230

House Bill No. 1020 - Agronomy Seed Farm - House Action

	Base Budget	House Changes	House Version
Agronomy Seed Farm	\$1,579,655	\$49,139	\$1,628,794
Total all funds	\$1,579,655	\$49,139	\$1,628,794
Less estimated income	1,579,655	49,139	1,628,794
General fund	\$0	\$0	\$0
FTE	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of House Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Salary and Benefit Increases ²	Total House Changes
Agronomy Seed Farm	\$4,604	\$44,535	\$49,139
Total all funds	\$4,604	\$44,535	\$49,139
Less estimated income	4,604	44,535	49,139
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding is adjusted for base payroll changes, including the cost to continue 2021-23 biennium salary increases.

² The following funding is added for 2023-25 biennium salary adjustments of 4 percent on July 1, 2023, and 4 percent on July 1, 2024, and increases in health insurance premiums from \$1,429 to \$1,648 per month:

<u>Other Funds</u>	
Salary increase	\$28,748
Health insurance increase	15,787
Total	\$44,535

House Bill No. 1020 - Other Changes - House Action

This amendment also:

- Adds a section to identify \$103,732,600 from SIIF, including \$3.9 million for the Northern Crops Institute feed production center facility upgrade and pellet mill, \$432,600 for the Upper Great Plains Transportation Institute transportation data intelligence center, and \$99.4 million for the main research center Waldron Hall replacement, deferred maintenance, and branch research center storage sheds.
- Adds a section to identify \$1,038,000 from the federal State Fiscal Recovery Fund for the purchase of land for the Hettinger Research Center.
- Adds sections to allow for funds appropriated for various capital projects at the branch research centers to be continued and expended during the 2023-25 biennium.
- Adds a section to exempt the main research center from Section 48-01.2-02.1, relating to procuring plans, drawings, and specifications from an architect or engineer, for the equipment storage sheds and deferred maintenance projects.
- Adds a section to declare the \$250,000 for the spud research fast track to be an emergency measure.

NDSU Langdon Research Extension Center Testimony – HB1020

Randy Mehlhoff, LREC Director – Senate Appropriations March 2, 2023



2021/23 ND Legislative Appropriation Update

- \$473,000 Appropriated for Langdon REC Plant Pathology Greenhouse.
- Lowest Bid was \$724,430 (\$251,430 over).
- Important Plant Pathology Research Data Delayed Because of No Greenhouse.
- **House Appropriations, Government Operations Division, Included Carryover Funding and an Increase Of \$251,430 - 2023/25 biennium**

2023 Research/Extension Programming Update

- Soil Health Extension Program in its 10th Year of Existence and has Benefitted Extension Agents, Crop Consultants and Family Operations. Performed 329 Deep Soil Samples for 122 Family Farmers in 14 ND Counties to Assess Soil Health.
- Crop Pathology Research Data Continues to be in High Demand with Evolving and new Crop Diseases on Principle Crops Grown in ND.
- Foundation Seed Production at Langdon has Increased from 350 Acres to 600 Acres Providing Foundation Grade Crop Seed for the Regions Growers
- Traditional Cropping Systems Research in Crop Variety Testing, Weed Control, New/Emerging Crops, etc. Continues to be in High Demand by Producers.
- Extension Cropping System Specialist at Langdon Chairing the Extension Crops Program Planning Team. Especially Important with Many New Extension Agents in ND.

Immediate Research/Extension Programming Needs 2023/25

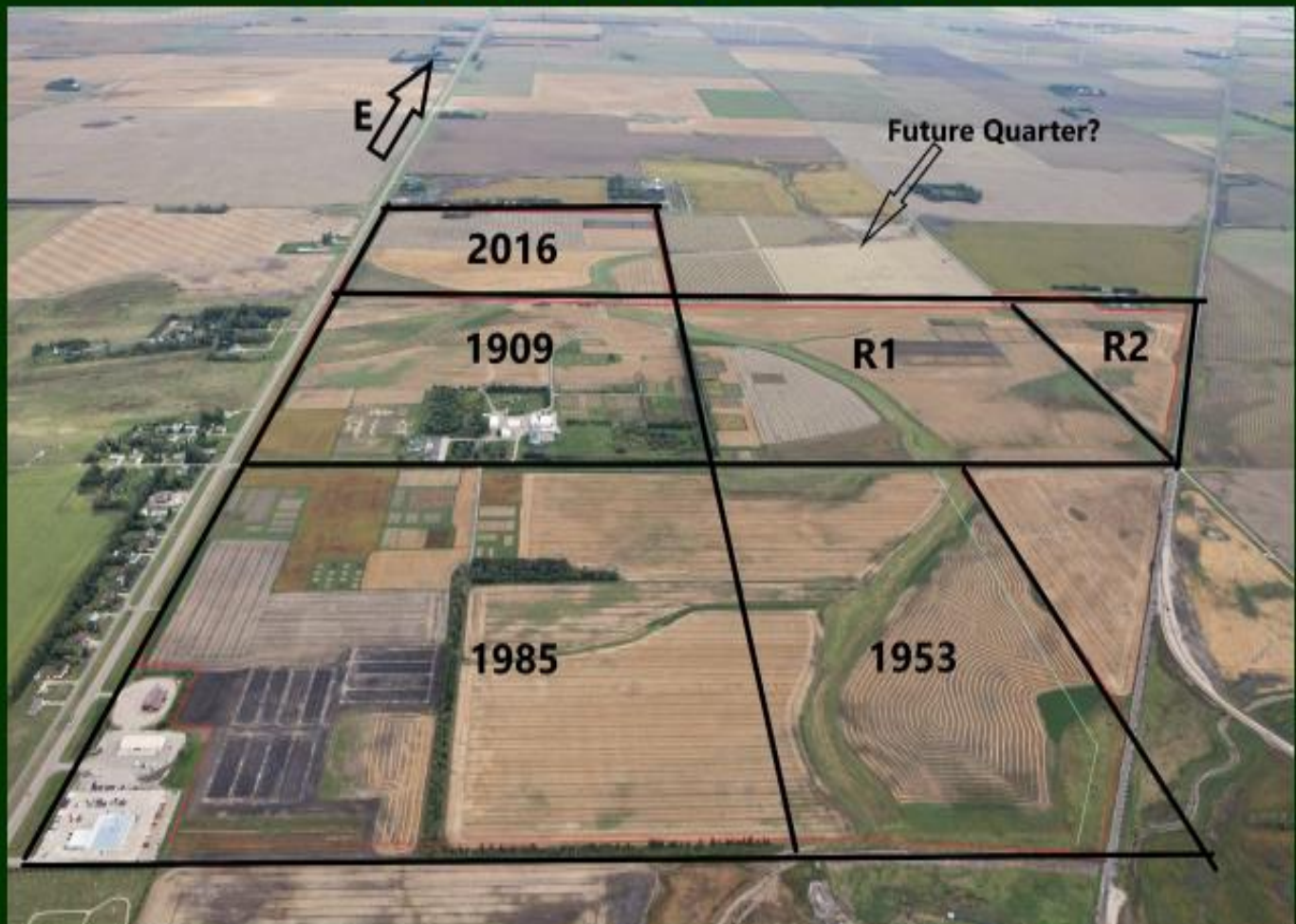
- One fte supporting the Langdon REC Plant Pathology Research Effort. (SBARE AES Priority # 1). **House Appropriations, Government Operations Division, Included one FTE \$176,000 and \$76,000 Operating - 2023/25 biennium**
- Funding the Needs Based Budget Requests for the AES and Extension in the Priority List Order as Set by the SBARE.

Immediate Capital Project Needs 2023/25

- A new Equipment Storage Shed to House Expensive Small Plot Machinery and Other Implements. **House Appropriations, Government Operations Division, Included Four of Seven Requested Sheds - \$1,900,000 - 2023/25 biennium**
- One Time Request for Deferred maintenance on Aging Infrastructure. **House Appropriations, Government Operations Division, Included \$500,000 of the Requested \$1,440,465 for Deferred Maintenance - \$500,000 - 2023/25**



LREC Land Base – 755 ac



Why We Need a Greenhouse at the Langdon REC

Clubroot pathotype determination: Situation demanded faster results as the disease is spreading rapidly in North Dakota. There is no chemical control for this disease. Only the use of resistant varieties works. Using resistant varieties frequently leads to resistance breakdown due to development of new pathotypes/races (Canadian Research). In order to determine the pathotypes/races of clubroot in ND, it took one year to get ¼ of sample results. **Note:** The researchers we have been collaborating are from University of Alberta, Edmonton, Canada. Consider the time, money, travel, and the economic importance of crop if we were to depend on their greenhouse.

1. **Clubroot germplasm evaluation:** There is an urgent need to screen for clubroot resistance canola lines, as current clubroot resistance is from a single source; it is vulnerable to faster resistance breakdown.
2. **Clubroot soil amendments in greenhouse:** saves time and money, in single year we can research two years' worth of field trials.
3. **Environmental control:** Often, we lose a research trial, as the crop did not get significant disease due to warmer weather; consider the time, money and efforts we lose here. Whereas, in greenhouse under controlled condition we can perform the trial twice in a season with desirable disease.
4. **Blackleg germplasm evaluation:** Every year we test 100's of germplasm to evaluate canola lines for blackleg resistance in field condition, if we have a greenhouse in Langdon, can test up to 1000 lines in one season.
5. **Soybean cyst nematode** prevalence is increasing in ND, just a bioassay in the greenhouse will determine presence or not in the soil of grower's field.
6. **Resistance to fungicides:** Repeated use of fungicides on a pathogen leads to resistance, we can determine far ahead by conducting lab and greenhouse studies.
7. **New crop introduction:** Crops in ND without prior data on possible diseases they can be infected, for instance, Faba bean white mold and Chocolate spot (we did the first reports from Langdon by field studies and collaborative studies) and similarly, hemp is infected with quite a few diseases, not able to prove to the scientific and grower community as the seed cannot be given to other researchers, if we had a greenhouse we could have proved by now.
8. **New Disease Identified then what?**
Soybean Sudden Death Syndrome in soybeans have been identified by us in Cavalier County, it's a new disease to this area so limited to no management options available to recommend. Resistant varieties are available but none in zero maturity group which is suitable to us. Preliminary research in greenhouse on these lines can help growers in managing this disease without significant losses.

Other research projects that can be done at our research center greenhouse: Bioassays of wild oat resistance to various herbicides, flea beetle resistance to insecticides on canola greenhouse studies. One of our colleagues stays in Fargo for two weeks to do this trial and then travels once in a week to monitor, hires a student hourly. Consider the time, travel, lodging that would be avoided with a greenhouse at Langdon.

Testimony for H.B. 1020 – Senate Appropriations Government Operations Division – 2023/25 session

Good morning.

My name is Greg Goodman, REC Advisory Board member for the Langdon Research Center. I am currently a 5th generation farmer, crop insurance agent, and a Cavalier County Commissioner. Thank you for taking the time this morning to listen to testimony on H.B. 1020. There are three main points that I wish to address with you regarding funding for the Langdon Research Center.

First, the 2021/23 legislative session approved funding for a pathology greenhouse at the Langdon REC. Due to COVID, ensuing supply chain disruption and inflation the greenhouse bids were way over authorization so the greenhouse was not constructed. It is our hope that carryover funding for this project remain in place to complete this building. We would also appreciate additional funding added to the project to offset the inflationary environment that has driven up the costs of construction. **Prior to carryover, the ND House of Representatives approved carryover funding and an additional \$251,430 to complete the Langdon REC greenhouse. On behalf of the advisory council we hope you will concur with the House.**

To compliment the existing and future crop disease research, we are also looking to fund one FTE Research Technician at our facility. This position is the number one priority by SBARE and would greatly enhance the ability for the Langdon REC to identify and understand the various crop diseases that continue to present challenges to ND production agriculture. **Prior to carryover, the ND House of Representatives approved one fte (\$176,000) and operating funds (\$74,000) to support the expanding plant pathology research program at the Langdon REC. Our location is the disease capital of ND and we request that you include the House recommendations and consider increasing operating funds for the Langdon REC in the Senate budget version.**

The number two SBARE priority is increasing operating funds for the main station and the REC's to offset cuts in operating due to budget shortfalls several sessions ago and recent inflation. **Prior to carryover, the ND House of Representatives approved \$180,000 in additional operating for the REC's and the main station. We ask that the senate would increase the operating to \$480,000 for the Rec's and the main station.**

Finally, the Langdon REC invested in specialized small plot equipment recently that needs to be cared for no different than many of the high-dollar machinery farmers operate today. This equipment expensive and is valuable to the continued research and seed production at the Center. We are asking you to fund seven equipment storage sheds (at each REC and main station) to store this equipment so it can stay out of the elements and extend the equipment's useful life. SBARE has indicated the need for this project in their capital project initiatives for several sessions. **Prior to carryover, the ND House of Representatives approved four of the seven equipment sheds (\$1,900,000) to adequately store specialized research equipment. We request that the senate would add the other three sheds to complete the project.**

Thank you for your time,

Greg Goodman
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Langdon, ND 58249
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Bismarck, ND 58503
Tel: 701.223.4124
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northerncanola.com

Testimony of Northern Canola Growers Association

March 1, 2023

RE: Support for HB 1020

Senate Appropriations Committee

The Northern Canola Growers Association, which represents over 3,000 canola growers in North Dakota that produce nearly 82 percent of canola grown in the U.S., would like to extend its support for the SBARE initiatives, particularly the equipment storage sheds, and technician support for the plant pathology program at the Langdon Research Center (LREC). We also understand the bids for a greenhouse at the LREC from last session came in over the authorized amount and would support efforts to fully fund a greenhouse.

Canola has enjoyed tremendous success since the crop started to take off in the late 90's and acres have tripled since then. With the increase in acres, we had to focus on challenges with obtaining crop protection products for use on canola in the early years, to focusing on monitoring pests and diseases of canola even more intently in the last 15 years.

We rely heavily on the NDSU experts to aid the industry in addressing these challenges. We have a long-standing relationship with the Langdon Research Extension Center because it is in the heart of canola acreage in the state. Dr. Chapara has spent many hours trying to understand the implications and management of clubroot in canola. His research has involved identifying areas of the disease within the county, expanding to a state-wide survey, and researching products to control this disease in canola. Now his workload is increasing due to the increased prevalence of a newly discovered disease in canola, verticillium stripe, which was discovered by Canadian researchers in Saskatchewan and Manitoba and is now being detected in northern North Dakota.

As many of you have probably heard, in November, a canola oil pathway was approved by the EPA for production of renewable diesel and other products as a result of the canola industry's petition submitted to the EPA over two years ago. Market analysts estimate we will need double the amount of canola we currently produce just to meet the needs of this new market for canola. This does not consider the huge potential sustainable aviation fuel will bring to the market. To ensure NDSU can facilitate this needed growth in the acreage of canola, the initiatives mentioned above will be vital and will be a smart investment in agriculture in the state.

We urge your support for enhancements at the Langdon Research Extension Center. Thank you very much for your consideration.



February 28, 2023

Chairman Sen. Brad Bekkedahl
Senate Appropriations Committee
Testimony in support of House Bill 1020

Chairman Sen. Bekkedahl and members of the Senate Appropriations Committee,

In a report released in December 2022, researchers at North Dakota State University (NDSU) found that agriculture has contributed nearly \$31 billion to the state's economy as well as more than 110,000 jobs¹. That represents more than 28% of the state's gross business volume, nearly 20% of all employment, and more than 24% of gross state product². North Dakota's agriculture industry not only represents a significant amount of the state's economy, but its products also feed its own citizens and those across the nation and around the world.

The state is also inimitably positioned to bring innovation to the global industry with the institution of research centers – extensions of NDSU – across North Dakota. Williams County is in a fortunate and unique position as it houses two research farms within its borders: one west of Williston and one in Nesson Valley. It is at these sites that new crop varieties are created, pathology takes place, and remedies are tested. It is because of these centers that agriculture continues to move forward, to maintain its health, and to ensure its producers can feed the world for years to come.

As with many industries, infrastructure is key. In western North Dakota, that is in the form of the Nesson Valley Facility, a \$1.7 million project planned for construction 27 miles from Williston that would support education and expansion efforts related to irrigation, high value crops, food processing, and livestock. On the heels of two straight years of extreme drought conditions that have devastated producers, irrigation is an extremely high priority.

The Williston Area Chamber of Commerce urges a “do pass” recommendation for HB 1020, which includes several SBARE priorities (see attachment), aimed to advance the mission of the NDSU Research Extension Center in Williston and beyond and, in turn, of the agriculture industry as a whole.

Thank you for your consideration of this important issue.

Sincerely,

Anna Nelson
President
Williston Area Chamber of Commerce

1. (North Dakota State University, 2022), <https://www.ndsu.edu/agriculture/ag-home/impact-stories/ndsu-study-shows-economic-impact-agriculture-north-dakota>
2. (North Dakota State University, 2022), <https://www.ndsu.edu/agriculture/sites/default/files/2022-12/Ag%20Summary%2012-6-2022.pdf>

Capital Improvement and One-time Requests North Dakota Agricultural Experiment Station

Final Ranking by SBARE – March 2, 2022

NDSU NORTH DAKOTA AGRICULTURAL
EXPERIMENT STATION

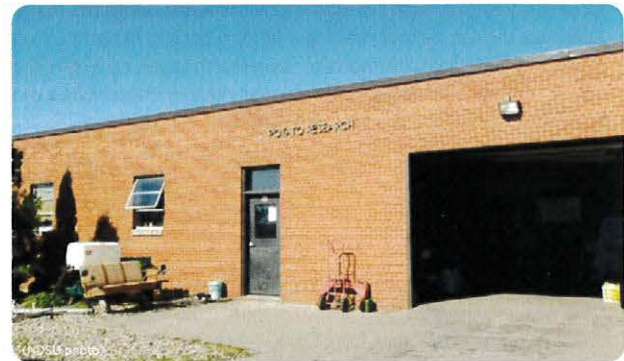
Capital Improvement Requests

1. Field Lab Facility

Field agronomic, plant disease and soils research address the pressing questions and important issues needed by state producers. Unfortunately, the current field facilities used by scientists are no longer adequate to address these critical research needs. Waldron Hall, Widakas Laboratory, the Potato Research Laboratory, and the Horticulture laboratory were all built between the 1940s and 1960s prior to the advent of personal computers and other modern equipment commonly used in field research, and at a time when field crop production yields in North Dakota were much lower and consisted largely of small grains. The future of North Dakota's successful agriculture depends on modern field facilities that will allow researchers to address the needs of the industry with improved access to varieties that are adapted to the climate of North Dakota, better fertility recommendations, improved weed control, and improved responses to plant disease challenges.

A modern field laboratory requires space that facilitates collaborations between scientists and their teams, is safe, eliminates contamination from soilborne and insect pests, and provides better processing, cleaning and storing of seed. Additionally, this facility must support research in tuber and root crops, such as potato, and horticulture, including controlled-environment growing rooms that allow precise environments for plant development.

Request: \$97,000,000



Capital Improvement and One-time Requests North Dakota Agricultural Experiment Station

Final Ranking by SBARE – March 2, 2022

2. AES Equipment Storage Sheds

Purchasing and/or leasing expensive field equipment is an investment that the AES needs to protect. Storing expensive research plot equipment such as tractors, planters and combines outdoors reduces the life of the equipment and can compromise the sophisticated electronics typically used on such equipment.

Request: Seven sheds (\$475,000 per shed)

Total: \$3,325,000

3. Nesson Valley Facility

A facility is needed for office and lab space, a heated shop, and a conference room at the Nesson Valley Irrigation site located 27 miles from Williston. The irrigation research staff currently uses a small office in a building used to store chemicals and other equipment and operating items. This facility would support ongoing educational efforts for growers related to irrigation and high value crops as well as meetings to support expansion of irrigation, food processing and livestock industries in western North Dakota.

Request: \$1,700,000

4. Precision Agriculture Facility

A facility that would support precision agriculture activities across the entire North Dakota Agricultural Experiment Station is needed to integrate advanced research in precision and advanced agriculture. A modern facility would provide the workspace scientists need to develop synergistic activities across disciplines that are required to address the complicated challenges facing producers of North Dakota. A new facility would include industrial high bay research space, co-worker space to enhance interdisciplinary research, and other specialty spaces that include a dynamometer bay, a fabrication laboratory and a soil laboratory.

Request: \$55,000,000

5. Dairy Barn

The last time the 1940s era NDSU dairy barn was updated was in 1978, when cows were producing 11,000 pounds of milk. Today the average dairy cow produces over 23,000 pounds of milk (over 2,600 gallons) in one year. The North Dakota State University dairy herd is recognized consistently by the Holstein association of the United States as one of the top university herds in the country. The current unit needs substantial renovation to the cow barn to modernize it with robotic milking and automatic calf feeding, improve worker safety, and increase animal welfare. This renovation would support the state's dairy industry and help it grow.

Request: \$1,700,000

One-time Requests

Deferred Maintenance

Request: \$1,440,465

Equipment for an Ag Biotech Innovation Core

Microbiological sciences can best contribute to the future of North Dakota agriculture through the development of microbial inoculants and the microbial valorization of agricultural residues. Broader research interests exist across the NDAES surrounding the microbial transformation of agrifood products and bioproducts. NDAES scientists engaging in this research would benefit from a core facility where they could access specialized equipment and skilled technical support.

Funding would be used to purchase laboratory equipment needed to establish a core biotech facility. Equipment needed includes an array of bioreactors to support high throughput and scale-up experiments and metabolomics equipment including a GC MS/MS mass spectrometer.

Request: \$1,000,000



North Dakota Agricultural Experiment Station

NDSU Extension

2023-2025 Biennial Budget Request

House Bill 1020

Senate Appropriations Committee
Senator Brad Bekkedahl, Chairman
March 2, 2023

NDSU NORTH DAKOTA
STATE UNIVERSITY

- NDSU Extension - Budget No. 630
- North Dakota Agricultural Experiment Station
 - Main Station - Budget No. 640
 - Branch Research Extension Centers - Budget No. 628
 - Agronomy Seed Farm - Budget No. 649

David Cook – President, North Dakota State University
 Sarah Lovas – Chair, State Board of Agricultural Research and Education
 Greg Lardy – Vice President, Agricultural Affairs
 Director, ND Agricultural Experiment Station
 Director, NDSU Extension

www.ndsu.edu/agforlegislators

SBARE

State Board of Agricultural Research and Education

Who we are and what we do

History

The State Board of Agricultural Research (SBAR) was established by legislative decree in 1997. It was responsible for budgeting and policy-making associated with the supervision of the North Dakota Agricultural Experiment Station.

The law was changed during the 1999 legislative session to include responsibility for the North Dakota State University Extension Service. SBAR became the State Board of Agricultural Research and Education (SBARE).



Duties

SBARE, within the policies of the State Board of Higher Education (SBHE), is responsible for budgeting and policy-making associated with the North Dakota Agricultural Experiment Station and North Dakota State University Extension.

SBARE responsibilities are to:

- Determine the causes of any adverse economic impacts on crops and livestock produced in the state;
- Develop ongoing strategies for the provision of research solutions and resources to negate adverse economic impacts on crops and livestock produced in this state;
- Develop proactive strategies for NDSU Extension to fulfill the mission of improving the lives and livelihood of the citizens of North Dakota by providing research-based education;
- Implement the strategies developed under bullets 2 and 3, subject to approval by the SBHE;
- Develop, with the North Dakota Agricultural Experiment Station and NDSU Extension, an annual budget for the operations of these entities;
- Develop a biennial budget request based on its prioritized needs list and submit that request to the president of NDSU and the SBHE, and forward its prioritized needs list and request without modification to the Office of Management and Budget and the appropriations committees of the legislative assembly;
- Maximize the use of existing financial resources, equipment, and facilities to generate the greatest economic benefit from research and extension efforts and to promote efficiency;
- Annually evaluate the results of research and extension activities and expenditures, and report the findings to the Legislative Council and the SBHE;
- Advise the President of NDSU regarding the recruitment, selection and performance of the Vice President for Agricultural Affairs, the NDSU Extension Director and the Station Director; and
- Provide a status report to the budget section of the Legislative Council.

Membership

The State Board of Agricultural Research and Education consists of:

- NDSU President or the President's designee
- NDSU Vice President for Agricultural Affairs*
- North Dakota Agricultural Experiment Station Director*
- NDSU Extension Director*
- Five people appointed by Ag Coalition
- Five people appointed in the geographic areas represented by NDSU Extension's multicounty program units
- North Dakota Agriculture Commissioner*
- Two members of the legislative assembly appointed by the chair of Legislative Council

* serve in ex-officio, nonvoting capacity

Current Membership

Communicate with board:
ndsu.sbare@ndsu.edu

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NDSU Extension

Agency Statutory Authority

North Dakota Century Code Chapter 11-38

Agency Description

North Dakota State University (NDSU) Extension is part of a nationwide, university-based educational system that provides research-based educational programs to advance the lives and livelihoods of citizens in all 53 counties and four American Indian reservations in North Dakota. Programs focus on addressing current needs and issues affecting the state's agriculture, youth, families, communities and natural resources. In an effort to provide extensive reach and share knowledge and resources across North Dakota, NDSU Extension staff are located at state, area and local/county offices. NDSU Extension combines funding from federal, state, county and grant sources to specifically address local concerns and make a positive impact on our land and our people.

Agency Mission Statement

Empower North Dakotans to improve their lives and communities through science-based education. NDSU Extension believes:

- In lifelong learning through transformational education
- That all people belong and deserve respect
- In stakeholder input to guide program development
- In science-based, locally relevant information
- In the value of partners and collaboration

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

SBARE carefully considered stakeholder input and has identified several NDSU Extension program initiatives which are described on the next page.

NDSU Extension Program Initiatives

Final Ranking by SBARE - March 2, 2022

CRITICAL PRIORITY – Hiring and retaining diverse candidates strengthens our ability to expand on critical needs in research, teaching, and extension. **Building attractive compensation packages for employees will be crucial in the recruitment and retention of top talent.**

1 Cropping Systems Initiative

North Dakota is a dominant force in agriculture, generating more than \$7.6 billion annually and leading the United States in the production of multiple commodities. However, there is room to grow. To help maximize the financial impact that NDSU Extension has on the state, additional expertise and educational programs are needed in response to the rapid expansion of soybean and corn acreage, new and emerging plant diseases and fungicide-resistant pathogens that limit crop yields, controlling the spread of noxious and invasive weeds, and advancing cropping systems that sequester soil carbon, increase plant growth, retain water and build soil health.

The cropping rotation mix across the state is changing as new and emerging crops move into western growing regions. While the crop rotation is changing, herbicide-resistant weed populations are also expanding in North Dakota. The combination of these changes creates a challenging environment for managing weeds. Best management practices for noxious weeds are also necessary to maximize crop yields in this region of the state.

Soybean acreage continues to increase in North Dakota; however, between 2015 and 2019, an estimated 1.1M bushels, worth well over \$10 million, was lost to soybean diseases, and additional diseases and pathogen variants. As examples, the diseases Sudden Death Syndrome and Frogeye Leaf Spot were first reported in North Dakota in 2018 and 2020, respectively, and new variants of the soybean cyst nematode were reported. An NDSU Extension soybean pathologist is needed to develop and deliver disease management information to growers and their industry partners to help prevent or mitigate economic loss to the North Dakota soybean crop.

Increasing interest in carbon contracts from a variety of entities means farmers and ranchers are being asked to sign long-term contracts and utilize practices that will help sequester carbon in soils. It is critical that we provide education and assistance around these carbon-capture practices so producers are fully informed as they consider using them on their farms.

Innovative farmers contribute to the development of best management practices for the commodities they grow. On-farm research programs serve as a bridge between the field-scale problems and novel plot-sized concepts and/or research-based solutions. On-farm research is an effective way to validate research advances while helping farmers envision the value those advances bring to their farm.

Request: Five FTEs total. Western crop production specialist, soybean pathologist, weed specialist, carbon credit specialist, on-farm research coordinator. \$400,000 operating support that includes \$200,000 operating for on-farm research.

Total: \$1,400,000



NDSU Extension Program Initiatives

Final Ranking by SBARE – March 2, 2022



2. Livestock Development Initiative

Livestock production in North Dakota accounts for approximately \$1.5 billion in gross revenue annually, and there is ample opportunity for growth. North Dakota lags its neighboring states in livestock production, and livestock integration has been identified as a top priority to utilize and add value to North Dakota agricultural products.

The health of livestock is also imperative to the state's economy. NDSU Extension continues to serve as a key technical resource that helps protect the health of North Dakotans and their livestock by enhancing the monitoring and surveillance of zoonotic diseases common to animals and people. Educational programming related to livestock production and management, business and economics, and animal health and biosecurity is needed to enhance existing opportunities and develop new opportunities to grow this industry in the state.

Request: Three FTEs total. Veterinary epidemiologist, swine specialist, off-campus livestock development specialist.
\$120,000 operating support.

Total: \$770,000



3. Farm and Ranch Safety and Health Initiative

The health and safety of those involved in agriculture is of utmost importance. A leading cause of agriculture accidents is stress and fatigue. When stress, adversity or trauma occur, having the ability to adapt to difficult situations allows farmers, ranchers and their families to continue to function.

Farmers and ranchers regularly experience uncertainties throughout the year, such as extreme weather, fluctuating commodity prices or trade disruptions. Extension personnel across the state offer prevention resources, and Extension is uniquely positioned to coordinate additional efforts and critical resources related to farm and ranch health and safety. Prevention efforts help build skills that can reduce the need for expensive, crisis-level services.

Request: \$250,000 operating support for farm and ranch safety and health resources.

Total: \$250,000



4. Program Support for 4-H Initiative

North Dakota is facing a workforce crisis, with a particularly high demand for individuals with strong science, technology, engineering, math and entrepreneurial skills. These technical skills, combined with teamwork, decision-making, critical thinking and communication can help build a strong and effective workforce for the state. To build this workforce, expanding and developing quality youth development programs and experiences, such as 4-H, is essential.

Support for 4-H youth development programs will advance North Dakota's future, growing leaders through positive youth development experiences, club involvement, year-round camping opportunities, school enrichment, and after-school programs to promote youth who thrive with workforce readiness skills.

Request: 320,000 One FTE total. 4-H entrepreneurship specialist. \$120,000 operating funds to include support for camping, clubs and after-school programs.

Total: \$320,000



5. Extension and State Soil Conservation Committee Operating Support Initiative

Operating support allows Extension specialists to develop innovative programming in a timely fashion, reach audiences as the need arises, or develop new methods to connect with local communities, and leverage resources needed to address larger issues facing our citizens. Operating support for the State Soil Conservation Committee provides an increase in direct assistance funding to be distributed to local Soil Conservation Districts for technical assistance and conservation planning support.

Request: \$300,000 in operating support for Extension and \$300,000 in operating support for the SSCC.

Total: \$600,000



6. Increased Food Security Initiative

Agriculture continues to be a cornerstone of North Dakota's economy in both rural and urban communities. With the increased emphasis on agricultural processing capacity within North Dakota, there is a need for continued education on the food supply chain. Support for food processing efforts and activities, particularly for value-added food products, can enhance nutrient dense foods.

The pandemic facilitated an increased interest in locally-produced and sustainable food, gardening and horticulture. This initiative would provide funding for enhanced support of Extension agents with expertise in horticulture to support this growing interest across the state.

Request: One FTE total. Urban ag/value-added food technologies specialist.

\$200,000 in operating support to include two county-based horticulture agents in partnership with counties.

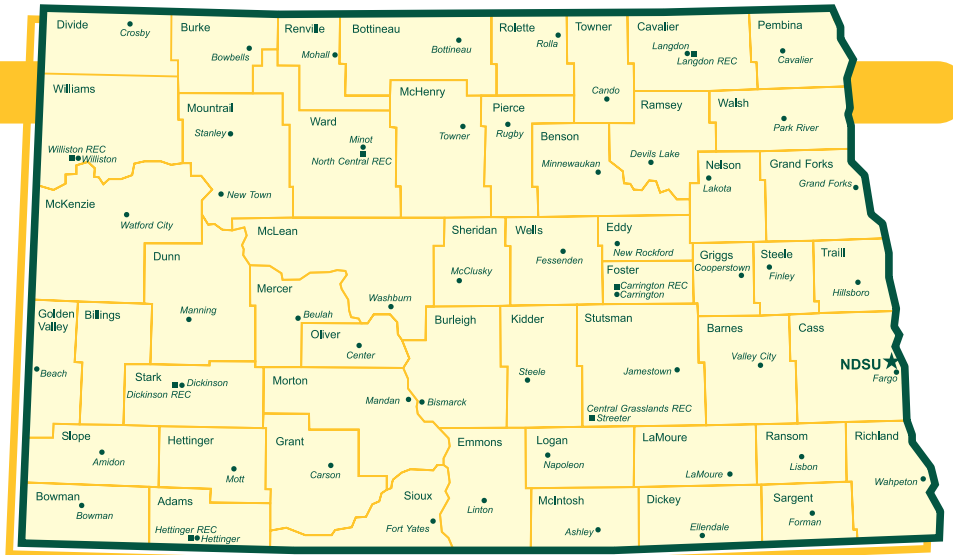
Total: \$400,000

NDSU | EXTENSION

2022 NDSU Extension impacts

NDSU Extension is:

- A statewide network of professionals located on the NDSU campus, at Research Extension Centers and in every North Dakota county.
- A system of trusted community members. We meet people where they live to deliver tailored, innovative and accessible education programs, resources and partnerships.
- A research-based, data-driven organization. Administered by North Dakota State University, we connect university science to community issues to change lives. We place a special emphasis on strengthening agriculture and developing the potential of youth, adults and communities.
- Where co-created solutions happen. By linking resources and organizations to address locally-identified problems, we empower resilient people and communities to address pressing problems in rural and urban North Dakota.
- An important component of agriculture's **\$30.8 billion economic contribution** to North Dakota.



We help families mitigate stress, injuries and fatalities so agricultural operations can continue successful production, which increases food security across the state.

- NDSU Extension certified 26 youth ages 14-15 in operating tractors and ATVs, so they could enter the agricultural workforce and use their safety skills to help prevent youth injuries and fatalities in the workplace.
- We issued pesticide applicator certifications to 4,560 farmers and ranchers through training on best management practices and legal requirements when using pesticides.



We develop field recommendations that maximize production and protection of crops that benefit North Dakota farmers and their families, rural communities and our environment.

- By using NDSU's recommendations for wheat/durum, sunflower, barley and sugarbeet, North Dakota farmers could reduce nitrogen use by 400 million pounds and increase farm profitability by more than \$40 million.
- Growers who attended NDSU Extension training reported that they will gain \$12.95 per acre by using best management practices for soybean production. The potential economic gain to the state will be more than \$65 million dollars.



We invest in growing tomorrow's leaders by cultivating engaging experiences where young people receive high quality, hands-on opportunities to foster essential life skills.

- More than 390 youth attended the North Dakota 4-H camps including Trades Camp, Cultural Cooking Camp and Forensic Science Camp. Regional North Dakota 4-H Volunteer Project Trainings reach over 175 volunteers annually.
- 88% of youth involved in North Dakota 4-H shooting sports programs reported that they have learned new skills. 94% reported that the program helped them learn how to safely handle shooting sports equipment.
- Through an increased reach across underserved communities, more than 143 Indigenous youth in Sioux County participated in learning experiences and explored careers by building hydroponic gardens, flying drones, learning coding and participating in activities to grow and develop coping skills.
- 87% of adults who were in the North Dakota 4-H State Ambassador program now volunteer in their communities.



We educate Master Gardeners, whose volunteer efforts improve food security, beautify our communities and protect our environment.

- Since 2015, Master Gardeners have grown, gleaned or collected 138,183 pounds of fresh produce to support local food pantries. This has provided 552,732 servings of fruits and vegetables to North Dakotans and their families.
- Since 2016, Extension Master Gardeners designed and built 27 public pollinator gardens in 20 counties. Prominent garden sites were the International Peace Garden, Chahinkapa Zoo, School for the Deaf, Nueta Hidatsa Sahnish College Gardens and the Red River Zoo.



We help ranchers enhance livestock health and performance, and increase the economic sustainability of livestock operations.

- In 2022, NDSU Extension agents conducted 287 water screenings and identified 70 with toxicity levels high enough to result in extreme illness or death of cattle. This program led to active management and mitigation of 52 existing water sources, and 31 participants installed a water development. Since 2019, this effort is estimated to have saved the lives of 46,000 head of livestock and increased health and performance of 37,000 head.
- Market-based research provided by NDSU Extension to the USDA Farm Service Agency resulted in a 170% increase of the Livestock Indemnity Program (LIP) for calves up to 250 pounds. To date, North Dakota ranchers have received \$922,810 in LIP.



We help North Dakotans make changes to lifestyle, including diet and amount of physical activity, to prevent chronic disease. By delaying or preventing the development of chronic diseases, healthcare costs are reduced for the individual and state-funded insurance programs.

- Of 430 youth participants in the 2021-2022 *On the Move to Stronger Bodies Program*, 65% of respondents ate more vegetables and 76% increased their physical activity. Parents and caregivers responded that 45% of children drank less soda after participating in the program.
- Eligible participants of the *Diabetes Prevention Program* lost an average of 10.5 pounds over a 12-month period and completed on average between 170 and 230 minutes of physical activity per week. These efforts reduce the risk of developing Type 2 diabetes by 58% in those under 60 years old and 71% in those over the age of 60. Additionally, 50% of the participants lowered their blood pressure, 45% lowered their cholesterol and 42% indicated a reduction in blood glucose levels.



We train current and emerging leaders to increase civic engagement in communities and organizations across North Dakota. Successful community involvement and volunteerism hinges on the development of leadership skills and mentoring, and increases the effectiveness of public leaders.

- 100% of *Lead Local* participants can develop a meeting agenda using the components of an effective meeting and model effective ways to deal with group conflict, and 98% can run a meeting using parliamentary procedure.
- Area Conservation and Leadership Planning Program Coordinators were introduced in two of the five areas in North Dakota, which represents 21 soil conservation districts. Fourteen percent of these districts adopted a new plan of work template and 29% created a long-term conservation plan in 2022.

Agency Overview

Main Research Station

North Dakota Agricultural Experiment Station

Agency Statutory Authority

ND Constitution Article XIX; North Dakota Century Code Chapter 15-12.1

Agency Description

The North Dakota State University Main Research Station is located on the campus of the North Dakota State University of Agriculture and Applied Science. The station is the administrative location of the North Dakota Agricultural Experiment Station. The station conducts research and coordinates all research activities of the Agricultural Experiment Station. The purpose of the research is the development and dissemination of technology important to the production and utilization of food, feed, fiber, and fuel from crop and livestock enterprises. The research provides for an enhancement of economic development, quality of life, sustainability of production, and protection of the environment. The Main Research Station keeps detailed records of all activities and publishes the information that will be of value to the residents of this state.

Agency Mission Statement

The Agricultural Experiment Station shall develop and disseminate technology important to the production and utilization of food, feed, fiber, and fuel from crop and livestock enterprises. The research must provide for an enhancement of the quality of life, sustainability of production, and protection of the environment.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

SBARE carefully considered stakeholder input and has identified several priorities for the ND Agricultural Experiment Station which are described on the next page.

SBARE Priorities for the North Dakota Agricultural Experiment Station

Final Ranking by SBARE – March 2, 2022

NDSU NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION



CRITICAL PRIORITY – Hiring and retaining diverse candidates strengthens our ability to expand on critical needs in research, teaching, and extension. **Building attractive compensation packages for employees will be crucial in the recruitment and retainment of top talent.**

1 Plant Production and Protection Initiative

Crops and cropping systems account for more than 80% of the gross agricultural receipts in North Dakota. Each year, new challenges and research questions emerge, especially related to crop rotations, agronomic practices, varietal selection and disease. Crop rotations in North Dakota are diverse and complex, and new and emerging diseases continually arise. To maintain the success of the state's agricultural operations, the need for specialized research is critical for a wide variety of crops and cropping systems, and for new bacterial and viral diseases. Research that addresses many of the most challenging problems in cropping systems generates almost immediate return on investment by improving agricultural productivity.

Research that addresses agronomic conditions in western North Dakota at the Dickinson Research Extension Center (REC) is critical to helping farmers address issues related to crop rotations, drought concerns and other issues specific to southwest North Dakota.

In addition, more emphasis on plant breeding, especially with pulse crops, is needed as pulses have become an increasingly important part of crop rotations throughout the state.

Plant diseases are a constant concern for producers. Over the past twenty years, over twenty new diseases have arrived in North Dakota. Several of these are caused by bacterial plant pathogens that are now major diseases on the crops they affect. Examples include Goss' wilt of corn, bacterial leaf streak of wheat and barley, and Dickeya soft rot of potatoes, all of which can cause tens of millions in damage in the state. Other, longer-established bacterial diseases in the state, such as common blight of dry bean and ring rot of potato, reduce producer profitability and can limit seed production in the state. New virus diseases in the state, such as pea seedborne mosaic virus, and new variants of existing viral diseases, such as potato virus Y, have emerged and hamper efforts to breed new crop varieties and reduce producer profitability. Expertise in these new and emerging diseases caused by bacteria and viruses are needed to reduce the risk associated with these diseases, ensure farm profitability, and reduce expense.

Request: Seven FTEs total. One agronomist at the Dickinson REC, one plant bacteriologist and one plant bacteriologist technician, one plant virologist and one plant virologist technician, one pulse breeding technician, and one technician for clubroot fungus at the Langdon REC. \$120,000 in operating support.

Total: \$1,580,000

SBARE Priorities for the North Dakota Agricultural Experiment Station

Final Ranking by SBARE – March 2, 2022

2. Operating Support

Operating support is requested for the Oakes Irrigation Research Site (OIRS), which provides important research on irrigation strategies, farming practices in the southeast part of the state and high value crops. The additional operating support will ensure the OIRS maintains its critical research activities.

Additionally, operating support to enhance collaborative opportunities between the Main Station and REC network is vital to bringing additional scientific collaboration to key projects, facilitate collection of preliminary data and enhance competitiveness for grant funds.

Scientists have become progressively more reliant on grant funds to conduct research, and consequently their time spent on administering the grant process has greatly increased. The complexity of many grant applications has expanded significantly and scientists find themselves spending increasing amounts of time on administrative functions related to grant applications. Administrative support staff dedicated to assisting scientists to identify sources of grant funds, navigate complex submission requirements and gather paperwork would improve efficiency and increase the ability of our scientists to identify, submit and compete successfully for grant funds.

Graduate students enhance research programs by providing key labor to complete research activities, collect field data and conduct various analyses associated with research projects. Graduate students also enhance collaborations between the main campus and the REC network by providing a vital link between scientists. These same graduate students are the next generation of scientists that will be hired into important roles in the public and private sector in the future.

Request: Three FTEs total. Three FTEs will provide administrative support for grant development work, \$594,000. Graduate student funding to hire graduate research assistants (no FTEs), \$720,000. Operating support for Main Station and RECs, \$480,000. Operating support for the Oakes Irrigation Research Site, \$400,000.

Total: \$2,194,000

3. Big Data Initiative

Agricultural research activities have become much more data intensive. Advances in UAVs, agricultural sensors, computational speeds and networking technologies produce massive volumes of data, and advances in precision agriculture will only increase data production at a rapid pace. The demand for data storage, management and analysis within agriculture and food production is greatly needed to provide the producer with meaningful management outputs that will improve their operations. Large volumes of data are part of every conceivable field of agricultural research, including plant varietal selection, soils, livestock production, weather and climate, economics and agribusiness, and food production.

In addition, weather is the primary factor that impacts all fields of agriculture, and the ability to monitor, process and analyze weather data is essential to improve producer management and reduce risk. The North Dakota Agricultural Weather Network (NDAWN) is a mesonet of more than 150 stations and generates a tremendous amount of data multiple times per hour. The value of this data and its uses can greatly improve agricultural operations through more timely applications of crop inputs, determining planting and harvesting dates, minimizing risk, etc.

Request: Three FTEs total. One-and-a-half FTEs to support research related to data analytics, management and curation; one-and-a-half FTEs to support enhancements to NDAWN. \$200,000 in operating.

Total: \$838,000

4. Climate Smart Agriculture

There is little room for error in producing a crop during a “typical” North Dakotan growing season, and extreme variability exacerbates this challenge of producing a successful crop. For example, the harvest of 2019 was the wettest autumn since 1895 and resulted in prevent plant enrollment of 3.7 million acres in 2020. This record wetness was then followed by one of the worst droughts experienced in North Dakota during the growing season of 2021. Climate Smart Agricultural (CSA) practices provide land management strategies to help deal with such problems, and research is needed to implement CSA strategies that enhance resiliency for North Dakota producers.

Climate Smart Agricultural practices include water- and soil-conservation practices such as strip- or no-till, cover crops, rotation diversity and livestock integration, all of which increase carbon levels in the soil. Additionally, producers are increasingly being offered contracts to enter private sector carbon markets if they implement CSA practices. Producers need science-based information that helps them realize the benefits of CSA practices and the potential economic benefit from private sector carbon markets.

Request: Two FTEs total. One climate smart agricultural scientist, and one climate smart agricultural technician. \$40,000 in operating.

Total: \$458,200

5. (Tie) Bee and Apiary Research

North Dakota is the number one producer of honey in the United States. As a state, the total number of bee colonies is 495,000 or 18% of all colonies in the United States. These colonies contribute to 26% of all honey produced nationally, which is valued at approximately \$67 million. Although North Dakota produces more honey than any other state, we have no research program supporting beekeepers.

North Dakota honey producers need apiary research to address pressing issues such as colony collapse and improve honey production by developing greater winter hardiness, improved mite resistance, and increased hygiene. Additionally, research can improve interactions with other agricultural systems of the state while benefitting native pollinator populations and ecosystem services through improved land use.

Request: Two FTEs total at the Hettinger REC. One bee and apiary scientist, and one bee and apiary research technician. \$40,000 in operating.

Total: \$458,200

5. (Tie) Precision Agriculture

The need for intelligent systems, such as sensors, artificial intelligence, robotics and automation, is greatly increasing across all aspects of agriculture, from farm to plate. Additional resources can provide researchers with equipment and tools needed to build capacity and incorporate advanced agriculture applications for improving cropping systems and livestock operations of the state.

Request: \$600,000 in operating.

Total: \$600,000

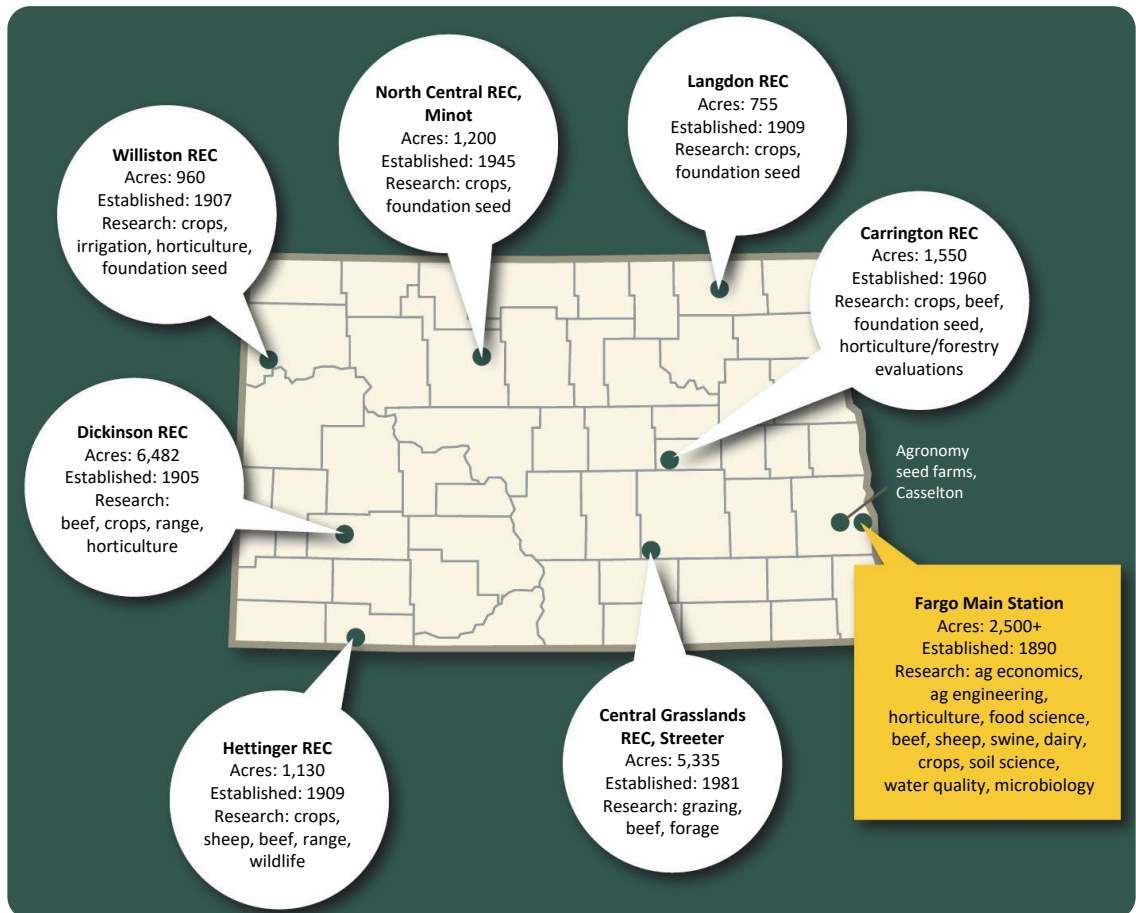
NDSU NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION

2021-2022 impacts

North Dakota
Agricultural Experiment Station

The North Dakota Agricultural Experiment Station is:

- A state-wide network of NDSU professionals located on the NDSU campus, seven strategically located Research Extension Centers and the Agronomy Seed Farm.
- An engine that provides the research that develops and disseminates the technology important for the production and utilization of food, feed, fiber and fuel from crop and livestock enterprises.
- An enhancement of economic development, quality of life, sustainability of production and protection of the environment.
- An important component of agriculture’s \$30.8 billion economic contribution to North Dakota.



Major Accomplishments



We advance animal health outcomes for our state's livestock farmers and ranchers and provide frontline vigilance to protect animals from disease:

- Researchers found exercise and diet improves pregnancy outcomes of mother and offspring, such as improved colostrum quality in milk that ensures newborns get vital antibodies necessary for fighting disease.
- Veterinary pathologists performed foreign animal disease testing for highly pathogenic avian influenza as part of the USDA National Animal Health Laboratory Network.



We are at the forefront of today's agriculture to ensure we provide the most advanced solutions to our state stakeholders and private partners:

- Precision agriculture researchers advanced fertilizer efficiencies and the control of weeds. They used on-the-go optical sensors to measure in-season plant nutrient status and prescribed fertilizer delivery to improve nitrogen use efficiency. Researchers also developed autonomous weed control systems to rapidly detect and eliminate weeds using robots and UAS data to inform commercial sprayers.
- Collaborations with Emerging Prairie continue to grow. NDSU is now a Sky Tiere Partner on Grand Farm, their top level of partnership, a testament to the high degree of collaboration.



We find advanced solutions that improve our land and natural resource stewardship, while improving agricultural outcomes:

- NDAES scientists determined water use needs of different industries and municipalities and assessed requirements for growing municipalities under normal and drought conditions.
- Rangeland scientists determined conservation reserve programs for North Dakota grasslands increased grassland bird abundance by 2%-7% and increased beekeeper revenue by \$30 per acre. They also developed unique grazing strategies to simultaneously increase pollinator habitat and livestock forage quality in rangeland ecosystems.
- Researchers completed a large five-year pollinator monitoring study across all 53 counties of North Dakota, establishing a foundation for species conservation. Over 200,000 individual pollinators were collected and 68 butterfly and 317 bee species were identified and located.



We develop crop varieties that thrive in our state's environment and provide profits to farmers:

- New plant varieties developed by NDSU can realize an almost \$70 million increase in annual revenues to North Dakota's economy. A new low cadmium durum wheat was released. Also, the NDSU Dakota Russet was selected by McDonalds as one of only seven varieties for their french fries.



We develop solutions to enhance crop protection, reduce risk and improve efficiencies that increase productivity:

- Pathologists advanced crop protection through new chemistries, new tools and monitoring for new diseases. Collaborations with private partners fostered the development of new chemistries, and improved application timing and amounts. Scientists developed new tools, such as disease risk models and molecular diagnostics, as means to manage plant diseases.
- New models were implemented in the North Dakota Agricultural Weather Network that provide pest emergence predictions, such as for the sugarbeet root maggot that can cause up to 45% yield loss.
- Microbiologists studying plant root microbiome developed a novel tool to identify nitrogen-fixing rhizobia in fields, providing a way to evaluate inoculants necessary for improved crop yields.

Agency Overview

Carrington Research Extension Center

North Dakota Agricultural Experiment Station

Agency Statutor Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Carrington Research Extension Center (CREC) was established in 1960. The CREC operates on a land base of around 2,100 acres and has infrastructure to irrigate about 260 acres with center-pivot systems and 120 acres by surface methods. The balance of the acreage is managed as traditional dryland and is utilized primarily for dryland field crop research activities and foundation seed production.

The CREC conducts research and educational programs to enhance the productivity, competitiveness, and diversity of agriculture in central North Dakota. Research activities at the CREC include scientists and support staff trained and implementing programs in these disciplines: Agronomy, Plant Pathology, Soil Science, Precision Agriculture and Animal Science. These program teams are able to address a broad scope of factors that impact North Dakota agriculture. The crop diversity of the state is addressed in all program areas and is further supported by the ability to conduct research under both dryland and irrigated conditions, with livestock integration options. Projects addressing organic crop production and a northern hardy fruit program broaden the constituency being served. The foundation seed program of the center is an integral part of the overall NDSU Foundation Seed program. Based on the research capacity across multiple disciplines, the CREC strives to implement relevant research impacting current agricultural issues and is prepared to contribute significantly to future opportunities to enhance North Dakota agriculture.

The CREC maintains a strong Extension program as four extension specialists base their educational programming from the center. The Extension program emphasis areas addressed by these specialists include: agronomy, livestock, precision agriculture and livestock environmental management.

Agency Mission Statement

The Carrington Research Extension Center conducts research that will lead to the enhancement of agriculture and improve the quality of life across the central region of North Dakota. Specifically, the Carrington Center conducts research on both dryland and irrigated crop production methods and systems, improved crop cultivars, feeding of beef cattle, cow/calf nutrition, sustainable agricultural production, and produces foundation seedstocks. The objective is to discover the balance between farm enterprise profitability and conservation of the natural resource base. The results of these studies are disseminated to the entire state through an on-going Extension educational program.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- The CREC Oakes Irrigation Research Site has served south central North Dakota since 1970. This site has provided needed high productivity data on corn and soybean production and varieties on dryland and irrigated sites, as well as information on dry beans and specialty crop performance. This site will need operational support to continue to serve the region at this uniquely positioned location.
- It is important that grant fund opportunities continue to be widely available in future years. Funds that support crop and livestock production or agricultural related issues in general are needed to leverage public funding. The CREC research programs must continue to have a diversity of opportunities to compete for grant funds that, when successful, allow us to most effectively empower current research programs.
- The programs of the CREC are supported by a diversity of facilities that include not only the primary buildings like headquarters and laboratory but also feedlot pens, feed and seed storage, animal shelters, water supply features, storage buildings, parking lots, roadways and waste containment. Current support for maintenance of these facilities is inadequate to address the current deferred maintenance costs.
- Equipment storage capacity at the CREC is critically limited resulting in a number of high-value pieces of equipment being stored outside year-round and exposed to the elements. This exposure has resulted in repair costs and rodent infestations that would not have been experienced if the equipment was stored indoors and faster depreciation especially on the higher-value equipment.
- A secure (owned or long-term leases) land base is critical to sustain the current and future research mission of the Carrington Center. The diverse programs of the CREC operate on a relatively small land base. The Carrington REC operates on a land base of around 2,140 acres with the state owning around 840 acres. The 1,300 acres not secured by state ownership must be sourced by annual rental agreements with multiple landlords. This heavy reliance upon a willing group of land owners to annually rent a significant portion of the acreage required to support the CREC puts these programs at risk. If any one parcel of rented land were not made available in a given year, the CREC would be forced to reduce or eliminate program contributions that are depended upon by North Dakota producers and are basic to our department mission.

2021-2023 IMPACTS

- Developed a new online spatial layout for live crop scout reporting to indicate pest severity hotspots in North Dakota.
- Hosted over 2500 guests to CREC through workshops, plot tours, and site visits.
- Beef feedlot trials were conducted to evaluate more avenues to utilize soybean crush bi-products (hulls).
- Optimized sulfur fertility recommendations for canola to improve fertilizer use efficiency.
- Provided crop performance information to farmers and industry for 26 different crops annually.
- Generated novel mechanisms for improved fungicidal disease suppression in multiple broadleaf crops, while simultaneously maintaining or reducing input costs.



The CREC optimized sulfur fertility recommendations for canola to improve fertilizer use efficiency.

Agency Overview

Central Grasslands Research Extension Center—Streeter

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Central Grasslands Research Extension Center (CGREC) conducts research for the Coteau region of North Dakota, an area bounded by the Missouri River on the west and the James River on the east, and extends from Divide and Burke counties in northwestern North Dakota in a southeasterly direction through Dickey County.

Research objectives should 1) increase or maintain carrying capacity of native range while emphasizing conservation and preservation, 2) create resiliency in grass production to compensate for the vagaries of the weather and precipitation as it influences forage production in the dryland agriculture, 3) identify the impact of different management strategies on beef production in the central region, and 4) explore the increased use of cover crops, annual forages and byproducts for the maintenance of the cow herd. CGREC's primary focus is management of grasslands, which occupies about one-third of the agricultural land in the state and aims to improve economic value to the natural resources while enhancing soil health and habitat for pollinators, birds, and mammals.

Agency Mission Statement

The legislated mission of the CGREC is as follows: "The CGREC shall conduct research designed to fulfill needs within an area bounded by the Missouri River on the west and the James River on the east with research objectives as follows:

1. To increase the range-carrying capacity of native range with emphasis on conservation.
2. Stabilization of grass production to determine how to best compensate for the variability of the weather as it influences forage production.
3. Identification of different management systems on beef production in the central region of the state.
4. Exploration of increased use of crop residues and by-products for the maintenance of the cow herd.
5. To disseminate research results and information for the benefit of the state of North Dakota.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- Deferred maintenance and other repairs that affect both safety and use of facilities continue to be a critical issue.
- Replace old equipment with new equipment that uses present day technology. Some of our equipment and machinery is 25 years old or older.
- Provide an increased salary packet to bring employee salaries back to average levels for similar employment found in private industry. Over the past five years, the station staff have averaged a 1.2% annual pay increase. Average US inflation rate over the same 5-year period is 2.46%, with the rate being 4.7% in 2021. It will be difficult to retain current staff without a major pay increase in the next biennia, with recruiting being even more difficult at the current salaries.

2021-2023 IMPACTS

- Initiated a large landscape level research project that compares innovative grazing strategies on livestock performance; livestock production; habitat for pollinators, birds, and mammals; soil health; and microbiology of the soil.
- Expanded winter grazing research to include grazing of corn residues, cover crops, and bale grazing projects.
- Studied impacts of supplementing enhanced mineral and energy feeds to grazing developing heifers on pasture using radio frequency identification technology and GPS technology.
- Continued to expand on collaborative research efforts evaluating the impacts of management on reproductive performance of beef cows and bulls.
- Expanded and initiated annual forage trials to assess varieties and explore economic return by forage species and systems.



The CGREC expanded winter grazing research to include grazing of corn residues, cover crops, and bale grazing projects.

Agency Overview

Dickinson Research Extension Center

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Dickinson Research Extension Center (DREC) has an established record of service to the people in the 13-county region south and west of the Missouri River. The DREC operates 6,506 acres of owned land within the region as well as annual land leases needed to accommodate ongoing projects. The land base provides opportunities for a broad perspective in evaluating various agricultural systems that can serve as engines for economic development. This is a continuation of what has taken place for over 100 years. Currently, the DREC assists agricultural producers in solving production problems with agronomy, animal science, soil science, and range science, while integrating new developments. Six major areas are served: agronomy, beef management, bio-security, range management, soil health, and sustainable agricultural practices. Faculty and staff are committed to engaging people of the region and to the identification of current economic opportunities, while sustaining natural resources for future generations as directed by the mission statement and Advisory Board. Research data and producer ideas are continually considered so the DREC can leverage the latest knowledge to best benefit the people of North Dakota.

Agency Mission Statement

The Dickinson Research Center must be located at or near Dickinson in Stark County. The Center shall conduct research on increasing the carrying capacity of native rangeland, with emphasis on conservation and preservation for future generations. The Center shall conduct research on grass production to determine how to best compensate for the vagaries of the weather as it influences forage production in the dry land agriculture of western North Dakota. The Center shall conduct research at the ranch location in Dunn County with beef cattle breeding, feeding, management and disease control for the benefit of livestock producers of western North Dakota and the entire state. The Center shall conduct research designed to increase productivity of all agricultural products of the soil by maintaining or improving the soil resource base in the dry land agricultural region of southwestern North Dakota by the identification of adapted crop species and superior crop cultivars; propagation and distribution of selected seed stock; and development of profitable cropping systems that achieve the necessary balance between profitability and conservation of all natural resources. The Center shall disseminate research results and information for the benefit of this state.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- Continue soil-plant-livestock-air research emphasizing soil health, agronomy, range management and livestock production. The current research focus and long research history provide a firm foundation to continue cutting edge research to match goals and objectives for work related to the agricultural biome. The integration of sustainable plant and beef systems requires more evaluation. In the future, more avenues for additional compensation need to be explored, to enhance the economic viability for beef producers and the rural areas associated with beef production. This compensation may come from not only beef but synergistic crop production. The DREC, as part of North Dakota State University, takes serious the need for sustainable beef, beef and grass systems. Currently, the DREC is striving to develop sustainable and integrated production strategies that match conditions of western North Dakota and surrounding regions. The inclusion of forages into traditional cropping systems can provide the resources necessary for the development of integrated production strategies that increase sustainability and profitability.
- Soil acidity research is needed to find more and better solutions to this important soil health issue. Current research is geared to determine soil liming needs. Future soil acidity research will evaluate cropping systems, agronomy practices, and their impacts on soil acidification.
- There is a need to develop agro-ecosystems that optimize the balance between forage-based and grain-based crop/livestock systems reflective of the many individual ecosystems. These integrated systems must be synergistic to, or enhance the native and agronomic plant communities, thus providing the base for future beef production. In addition, enhanced value for commodities produced from forage-based systems is key.
- Petroleum fuel alternatives that have been cultivated from North Dakota crops are becoming more important and extensive. Bi-products from fuel refinement are available that may serve as livestock feedstuffs. Research is needed to evaluate these value-added agricultural by-products as livestock feed.
- Deferred Maintenance Increase — The April 2022 blizzards demolished many miles of fence. The fence has been patched, but several fence miles need replacement. The DREC Ranch Headquarters near Manning underwent a feedlot expansion project in 2008. However, this was not completed. During the April 2022 Blizzards, dedicated staff camped at the ranch shop and removed snow daily for nearly three miles to care for cattle. Despite the harsh conditions, no cattle died as a result of the ranch team's efforts. Finishing this feedlot project will improve animal welfare as all cattle can be contained near the ranch headquarters, protected from the elements, and better accessed during inclement weather. Finishing the feedlot will open new livestock feeding opportunities. The Old original DREC office has been used as storage for years. This building could be repurposed as a single-family dwelling to house post-docs to conduct short-termed research projects.
- Capital Projects — A new machinery shed is needed to store and repair farm and research equipment and contain agricultural pesticides. A machinery shed with a heated bay will increase equipment longevity and help with equipment maintenance during the winter.
- Programmatic Needs — Maintain adequate operating funds. Fund an agronomy research specialist to allow us improve our efforts in cropping systems and soil science. Fund a research specialist with a master's level education to facilitate research and data collection. The Center needs annual support for a multitude of research projects, which require a broad understanding of various research techniques and data analysis related to the agricultural biome.

2021-2023 IMPACTS

- Soil acidity is a growing soil health issue in western North Dakota that impacts all plants. Extensive research and outreach have been conducted to improve soil acidity management.
- Conducted soil health research and education to demonstrate how soil health is improved by the microbial action of microorganisms.
- Shifted research and educational efforts to explore new forage and cattle resources and inputs.
- Evaluated grass cultivars, soil mineral nitrogen, prairie ecosystems, grassland restoration and integrated grazing systems.
- Reduced soil disturbance, increased plant diversity, added animal diversity, maintained living roots to feed soil organisms and covered soil with plants and plant residues.



The DREC evaluated grass cultivars, soil mineral nitrogen, prairie ecosystems, grassland restoration and integrated grazing systems.

Agency Overview

Hettinger Research Extension Center

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Hettinger Research Extension Center (HREC) is a semi-arid site located in southwest North Dakota, providing the most southerly NDSU location in the non-glaciated portion of North Dakota as a site for its agronomy research program. The HREC also is located at the center of the North Dakota sheep industry, the focus of one of its animal research programs, and in an area of rapidly growing livestock feeding ventures, another focus of animal research at the HREC. Additionally, the HREC is located in a region where much of the land base is in the Conservation Reserve Program, which has resulted in additional research evaluating potential changes in the CRP program and how these changes may affect upland native and game bird populations. A new research program evaluating low-cost rangeland monitoring strategies on U.S. Forest Service lands and wildlife/livestock interactions has resulted in a significant increase in the quantity of rangeland research conducted at the HREC throughout the western Dakotas. Research at HREC involves the disciplines of animal science, range science, wildlife science, agronomy, and agri-business and applied economics. Collaboration is with Main Station scientists, Branch Station scientists, U.S. Forest Service, grazing associations, university scientists from WY, SD, and MT, and USDA research entities in these research disciplines to improve productivity of livestock, grazing, and cropping systems, and to improve economic development of the region.

Agency Mission Statement

The Hettinger Research Extension Center, an outreach of North Dakota State University, provides applied research and education in agriculture and environmental sciences that will enrich the lives of North Dakotans and support economic development.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- Land currently being utilized by both the livestock and range & wildlife research programs is going to be sold within the next 2 years. The potential purchase of this land would solidify the land base for these research programs. The Hettinger REC currently owns only 28% of the land it operates on.
- The demand for apiary research has exceeded the time and resources that the range & wildlife management research program can devote to this industry. Southwest North Dakota has become a 4 state regional hub for the apiary industry, and a research program that is dedicated to their needs has been supported by the ND Beekeepers Association.
- Technical support for the livestock research program is needed to provide all research programs with a full time technician. This position is needed to meet the research needs of producers in SW North Dakota.
- Operating support for additional prescribed equipment such as UTVs, pumper, drop torches, and PPE.
- Deferred maintenance and safety issues are over \$1,000,000. Specifically, due to past wet cycles and heavier than normal traffic, the road to the office is unstable and needs to be replaced. Additional needs include mechanical system renovation of the office, and re-paving the parking lot.

2021-2023 IMPACTS

- Variety testing of crops to find the best performing cultivars for SW North Dakota.
- Conducted weed science research evaluating new herbicides for weed control and crop safety for crops grown in SW North Dakota.
- Evaluated the effects of patch-burning in post Conservation Reserve Program lands on livestock, vegetation, pollinators, and wildlife in western ND.
- Conducted honeybee research evaluating shelter belt use in western North Dakota.
- Developed a multidisciplinary research project evaluating an integrated crop-livestock system using annual forages, winter wheat, and sheep.
- Conducted a nationally recognized sheep research program evaluating alternative technologies for increasing reproductive efficiency in both males and females and feedlot nutrition.
- Initiated a project evaluating the potential of a genetic marker for structurally deformities in Rambouillet rams.
- Trained extension agents certified in Nitrate QuikTest Certification Program for annual forages, assisting in the statewide drought response for NDSU Extension.
- Trained M.S. and Ph.D. students in the fields of Natural Resource Management and Animal Science.
- Developed an exchange program with the University of Puerto Rico to give their students experience in sheep production, management, and research.



The HREC evaluated the effects of patch-burning in post Conservation Reserve Program lands on livestock, vegetation, pollinators, and wildlife.

Agency Overview

Langdon Research Extension Center

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Langdon Research Extension Center (LREC) is located one mile east of Langdon on US highway five. The agricultural land base at the station consists of 549 owned acres and an additional 206 acres under lease agreement. The LREC serves a nine-county region located in northeast North Dakota and has North Dakota's highest precipitation rates, coolest temperatures, and richest productive soils. The climate supports diverse crop production and recurring disease problems.

The LREC has a strong tradition of assisting the region's producers to meet agricultural production challenges throughout the course of its existence since 1909. In 1993, the LREC redirected much of its research programming to focus on the significant increase of disease and insect pressure associated with its climate. This redirected applied research programming has provided producers with information regarding disease minimizing cultural farming practices and trusted information regarding chemical applications and other inputs that minimize disease and insect pressures that give growers the best return on investment for all crops grown in ND. The recent addition of extension specialists in cropping systems and soil health allows the LREC to be a full service research and extension center for local growers, families and communities.

Agency Mission Statement

The Langdon Research Extension Center will conduct applied agricultural research that enhances the quality of life for the region's citizens with a responsive, flexible and accessible overall agricultural based research program. This programming will combine the concepts of agricultural research, information technology and community/economic development while conserving the region's natural resources.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- The primary issue currently for the NDSU Langdon Research Extension Center is to maintain a level budget and hopefully provide an increase based on inflation through the 2023-25 biennium based on the 2021-23 budget. This is essential to support the research and extension programming at its current level. The LREC is experiencing first hand inflation (and other) constraints as the recently funded greenhouse addition came in way over budget. Re-bidding will occur early in 2023 so an extension of the funding would be needed. Looking ahead, an upgrade on the LREC's 1960 seed cleaning plant will be needed for continuation of the foundation seedstocks program that provides local growers with new NDSU crop varieties.
- All research and extension programming are supported by all facilities at the Langdon REC, most built prior to 1960. Many are becoming outdated and unsafe. Acquiring additional funds for extraordinary repairs, including upgrades to minimize the spread of covid19, will help to shore up these facilities to support the level of research and extension programming currently supported at Langdon.
- Research at the Langdon REC has become more dependent on research grant opportunities. Additional support that helps scientists secure grants to leverage public funding will be essential to continue employing problem solving applied research for growers.

2021-2023 IMPACTS

- Continued to build strong research partnerships with agricultural input companies, commodity groups, regional crop improvement associations, growers, and others.
- Produced and distributed the highest quality foundation grade seed of the major crops grown in our region.
- Provided dependable support for main station crop breeding programs and other cropping system research programs including crop scouts throughout the growing season in northeast ND.
- Continued to foster and strengthen two new Extension Specialists outreach programs in cropping systems and soil health.
- Applied research at Langdon in agronomy, pathology and soil health is providing growers with answers they need to become more profitable.



The LREC produced and distributed the highest quality foundation grade seed of the major crops grown in our region.

Agency Overview

North Central Research Extension Center – Minot

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The North Central Research Extension Center (NCREC) was established in 1945 and is located one mile south of Minot on Highway 83. The NCREC conducts research to increase agricultural productivity, with a focus in the north central region of ND. The NCREC serves agriculture producers in the region and state through crop research, Foundation seed production, and Extension education programs. Research and Extension programs at the NCREC focus on crop variety and new germplasm evaluation, weed control, cropping systems, crop pest management, reduced tillage, and soil fertility. Research is conducted on cereal grains, oilseeds, legumes, forages, grapes, and emerging specialty crops.

Agency Mission Statement

The North Central Research Extension Center conducts research to increase agricultural productivity in north central North Dakota. The center serves agricultural producers in a 12 county region surrounding Minot through crop research, foundation seed production and dissemination, and extension education programs in crop and livestock production. Studies at the center focus on crop variety and new germplasm evaluation, weed control, cropping systems, crop pest management, reduced tillage, and soil fertility. Research is conducted on cereal grains, oilseeds, legumes, forages, and new specialty crops.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- Increased base funding to support research and Extension efforts
- Additional technical support
- Increased operating funds
- Equipment replacement
- Drain tile NCREC main yard
- Encroachment from city of Minot
- Sale and purchase of additional land for Foundation seed production

2021-2023 IMPACTS

- Produced, conditioned, and distributed foundation seed of seven crops grown in the region consisting of 24 unique varieties.
- Assisted in development of new varieties of economically important crops and evaluated production strategies for alternative crops.
- Researched crop production products in order to improve efficiencies and maximize economic return for minor and major acreage crops grown in ND.
- Provided transformational, Extension education in the areas of livestock, soil health, crop protection, and cropping systems.
- Conducted residue trials that led to registration of new agricultural pesticides.



The NCREC provided transformational, Extension education in the areas of livestock, soil health, crop protection, and cropping systems.

Agency Overview

Williston Research Extension Center

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Williston Research Extension Center (WREC), established in 1907 and relocated to the present site in 1954, is an 800-acre rain-fed farm located in northwest North Dakota near the city of Williston. In 2001, an additional 160 acres were purchased in the Nesson Valley and an irrigated research and development project was established. WREC research studies are conducted on crop variety evaluation, herbicide performance and other cultural management research, cropping systems and soil and water conservation practices. The main dryland crops are spring wheat and durum; barley, oats, safflower, pea, lentil, chickpea, canola, flax, alfalfa, and other alternative crops are also grown as cash crops or for livestock feed.

WREC research is intended to increase the producer's net profit, support crop diversification, and encourage more intensive cropping and irrigation development. Research on soil and crop management systems for sprinkler irrigation, on alternative irrigated high value and value-added crops are conducted. WREC also conducts variety development research on, winter wheat, spring wheat, durum, oats, peas, lentils, flax, canola, and other crops in cooperation with NDSU main station scientists cooperating state/federal agencies and private companies. WREC produces and supplies foundation seed to area farmers of new and adapted crop varieties adapted to our Mon-Dak region.

Agency Mission Statement

The Williston Research Extension Center conducts research to increase agricultural productivity in the semi-arid region for northwestern North Dakota while achieving a necessary balance between profitability and conservation of natural resources. Research on soil and crop management systems for sprinkler irrigation and alternative irrigated high-value/value-added crop production at the Nesson Valley site are conducted in cooperation with the Montana State University Eastern Agricultural Research Center at the USDA-ARS Northern Plains Agricultural Research Laboratory in Sidney, Montana and other cooperating NDSU and University of Minnesota scientists.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- Increasing operating costs and higher labor costs for research activities continue to impact WREC's abilities to carry out our research programs vital to the improvement of the economic and environmental performance of our agricultural lands. Deferred maintenance funding continues to be an important need for WREC to maintain its facilities.
- A facility is badly needed at the Nesson Valley Irrigated Research and Development site for office/lab space/conference room, and a heated shop at the irrigation site located 27 miles from Williston. The irrigation research staff currently work out of a small office in a chemical storage and handling facility used to store chemicals and handle pesticides and other hazardous chemicals. The new facility will support research and educational efforts for irrigated growers and to support expansion of irrigation, food processing and livestock industries in western North Dakota.
- An equipment storage building is needed for WREC farm and plot research equipment to allow all WREC high-cost farm and research equipment to be stored indoors from the elements.
- A \$500,000 capital campaign was authorized, and fundraising raised \$500,000 for a WREC greenhouse but higher than budgeted costs for greenhouse will require additional special fund authorization.

Williston Research Extension Center

2021-2023 IMPACTS

- Continued to conduct a long-term no-till dryland research project. The objectives are to develop agricultural systems to improve soil health, precipitation use, and economic stability of no-till farming systems.
- Introduced a drone based (UAS) precision agriculture research project.
- Developed and utilize a 160-acre irrigated site in Nesson Valley 27 miles northeast of Williston to identify improved irrigated cropping and tillage systems, water use efficiency, and soil health of irrigated lands.
- Established and completed a pipeline reclamation research project.
- Established and continue a high tunnel research project with vegetable crops and cut flowers.
- Established and continue a saline seep reclamation research and demonstration project in collaboration with the Montana Salinity Control Association.
- The WREC seed conditioning plant built in 1954 was antiquated and posed considerable safety issues. A new horizontal seed conditioning plant with optical color sorter and higher bushel per hour capacity was constructed in 2021 that will efficiently allow WREC to condition Foundation seed of a wide array of new crop varieties to provide pure seed to growers.
- Redirected a vacant Extension position to conduct Extension programming related to weed science and management.



The WREC established and completed a pipeline reclamation research project.

Agency Overview

Agronomy Seed Farm

North Dakota Agricultural Experiment Station

Agency Statutory Authority

North Dakota Century Code Chapter 15-12.1

Agency Description

The Agronomy Seed Farm (ASF) is a 590 acre farm located near Casselton, which has been a part of the North Dakota Agriculture Experiment Station (NDAES) since it was gifted to the state in 1950. It was the result of a fund drive conducted by the North Dakota Crop Improvement Association, which solicited farmers, seed companies and many others throughout the state to help establish a farm whose main purpose is to increase seed of new varieties as they are developed by the plant breeding and supporting departments of the NDAES. The ASF also propagates seed of older but still desirable varieties for the seedsmen of the area.

Agency Mission Statement

To produce an adequate supply of foundation-grade seed for the seedsmen of the state and area at a reasonable price and to support the varietal development research of the NDAES.

Agency Performance Measures

Per North Dakota Century Code 15-12.1-17 the State Board of Agricultural Research and Education (SBARE) presents a status report to the budget section of the legislative council. SBARE's most recent presentation to the budget section was on June 28, 2022. The report they gave and provided in written form included the status of the North Dakota Agricultural Experiment Station and NDSU Extension. A copy of the information is on file in the legislative council office.

Agency Future Critical Issues

- The critical issues facing the ASF are a continued demand for foundation-grade seed, favorable weather for growing seed and a good supply of varieties that are in demand by the seed industry. If these three conditions are present and good commodity prices accompany them, the future of the ASF is secure.

Agronomy Seed Farm

2021-2023 IMPACTS

- Produced 35,000 to 50,000 bushels of seed for availability to the seed industry annually.
- Conditioned 35,000 to 50,000 bushels of seed for availability to the seed industry annually.



The Agronomy Seed Farm's main purpose is to increase seed of new varieties as they are developed by the plant breeding and supporting departments of the NDAES.

**Major Capital Projects
and One-time Requests**

Capital Improvement and One-time Requests North Dakota Agricultural Experiment Station

Final Ranking by SBARE - March 2, 2022

NDSU NORTH DAKOTA AGRICULTURAL
EXPERIMENT STATION

Capital Improvement Requests

1. Field Lab Facility

Field agronomic, plant disease and soils research address the pressing questions and important issues needed by state producers. Unfortunately, the current field facilities used by scientists are no longer adequate to address these critical research needs. Waldron Hall, Widakas Laboratory, the Potato Research Laboratory, and the Horticulture laboratory were all built between the 1940s and 1960s prior to the advent of personal computers and other modern equipment commonly used in field research, and at a time when field crop production yields in North Dakota were much lower and consisted largely of small grains. The future of North Dakota's successful agriculture depends on modern field facilities that will allow researchers to address the needs of the industry with improved access to varieties that are adapted to the climate of North Dakota, better fertility recommendations, improved weed control, and improved responses to plant disease challenges.

A modern field laboratory requires space that facilitates collaborations between scientists and their teams, is safe, eliminates contamination from soilborne and insect pests, and provides better processing, cleaning and storing of seed. Additionally, this facility must support research in tuber and root crops, such as potato, and horticulture, including controlled-environment growing rooms that allow precise environments for plant development.

Request: \$97,000,000



(NDSU photo)



(NDSU photo)



(NDSU photo)



(NDSU photo)

Capital Improvement and One-time Requests North Dakota Agricultural Experiment Station

Final Ranking by SBARE – March 2, 2022

2. AES Equipment Storage Sheds

Purchasing and/or leasing expensive field equipment is an investment that the AES needs to protect. Storing expensive research plot equipment such as tractors, planters and combines outdoors reduces the life of the equipment and can compromise the sophisticated electronics typically used on such equipment.

Request: Seven sheds (\$475,000 per shed)

Total: \$3,325,000

3. Nesson Valley Facility

A facility is needed for office and lab space, a heated shop, and a conference room at the Nesson Valley Irrigation site located 27 miles from Williston. The irrigation research staff currently uses a small office in a building used to store chemicals and other equipment and operating items. This facility would support ongoing educational efforts for growers related to irrigation and high value crops as well as meetings to support expansion of irrigation, food processing and livestock industries in western North Dakota.

Request: \$1,700,000

4. Precision Agriculture Facility

A facility that would support precision agriculture activities across the entire North Dakota Agricultural Experiment Station is needed to integrate advanced research in precision and advanced agriculture. A modern facility would provide the workspace scientists need to develop synergistic activities across disciplines that are required to address the complicated challenges facing producers of North Dakota. A new facility would include industrial high bay research space, co-worker space to enhance interdisciplinary research, and other specialty spaces that include a dynamometer bay, a fabrication laboratory and a soil laboratory.

Request: \$55,000,000

5. Dairy Barn

The last time the 1940s era NDSU dairy barn was updated was in 1978, when cows were producing 11,000 pounds of milk. Today the average dairy cow produces over 23,000 pounds of milk (over 2,600 gallons) in one year. The North Dakota State University dairy herd is recognized consistently by the Holstein association of the United States as one of the top university herds in the country. The current unit needs substantial renovation to the cow barn to modernize it with robotic milking and automatic calf feeding, improve worker safety, and increase animal welfare. This renovation would support the state's dairy industry and help it grow.

Request: \$1,700,000

One-time Requests

Deferred Maintenance

Request: \$1,440,465

Equipment for an Ag Biotech Innovation Core

Microbiological sciences can best contribute to the future of North Dakota agriculture through the development of microbial inoculants and the microbial valorization of agricultural residues. Broader research interests exist across the NDAES surrounding the microbial transformation of agrifood products and bioproducts. NDAES scientists engaging in this research would benefit from a core facility where they could access specialized equipment and skilled technical support.

Funding would be used to purchase laboratory equipment needed to establish a core biotech facility. Equipment needed includes an array of bioreactors to support high throughput and scale-up experiments and metabolomics equipment including a GC MS/MS mass spectrometer.

Request: \$1,000,000

2021-2023 Capital Improvement and One-time Request Update

North Dakota Agricultural Experiment Station

AES Equipment Storage Sheds

Purchasing and/or leasing expensive field equipment is an investment that the AES needs to protect. Storing expensive research plot equipment such as tractors, seeders and combines outdoors reduces the life of the equipment and can compromise the sophisticated electronics typically used on such equipment.

21-23 Request: 8 (\$300,000 per shed)

21-23 Funding Received: \$300,000 for Hettinger REC (Regular session – SIIF)

Funds Expended through 12/31/22: \$294,310

Current Status: Hettinger REC storage shed is complete. The size of the shed was decreased from the original planned size to stay within budget.

23-25 Additional Funding Request: \$3,325,000 (\$475,000 per shed)

Central Grasslands Pasture Working Facilities

The Central Grasslands REC currently has damaged, small pens with no alleyways, working pen, or catwalks which are unsafe for livestock and people. Two working facility will be built, one in Barker’s Unit and one in Wagon Wheel. These facilities will include holding pens, working facilities, bud box, cat walks, and alleyways to create safe working areas to work cattle, collect livestock data, breeding, and doctor cattle while on grazing research studies.

21-23 Request: \$200,000

21-23 Funding Received: \$200,000 (Regular session – SIIF)

Funds Expended through 12/31/22: \$66,065

Current Status: One of the two pasture facilities is complete. The second pasture facility is approximately 50% complete. Completion is scheduled for May 2023.

Langdon REC Greenhouse

The Langdon REC identifies a need to develop greenhouse space for its plant pathology effort. Greenhouse space would allow for year-round testing of disease issues for crops grown in the region and provide an area for testing chemical control methods.

Because the climatic conditions in North Dakota allow only one crop a year, many researchers must limit their research projects to a certain number a year. If our facility gets a greenhouse, we can accomplish more than what we are doing now. Now, plant pathology greenhouse projects are directed to the main campus in Fargo as we do not have a greenhouse at our center.

Greenhouses accommodate many types of plant research and provide flexible environments to accommodate the growing needs for plant research in a shorter time. We currently have diverse types of research projects that need a greenhouse, such as:

- Isolated environments. For example, clubfoot of canola research first must be conducted in a greenhouse rather than in field conditions where the odds of spreading the disease are higher.
- Ambient conditions to replicate outdoor conditions for control and integrated pest management experiments dealing with local rare and newly introduced diseases and pests.

- Bioassays for crop-specific nematode detection, such as soybean cyst nematode.
- Bioassays for the determination of herbicide resistance.
- Fungicide efficacy tests for quick results. Instead of waiting for next summer, research can be done in winter and conveyed to the research community and growers, for example, fungicides to manage chocolate brown spot of Faba beans as no fungicides are registered so far in ND.

21-23 Request: \$473,000

21-23 Funding Received: \$473,000 (Regular session - SIF)

Funds Expended through 12/31/22: \$25,729

Current Status: One bid was received for \$724,430 in June 2022. Architect has suggested to rebid the project in spring 2023.

23-25 Additional Funding Requested: \$251,430

Central Grasslands REC Livestock Facility

The CGREC livestock facilities are in dire need of replacement. The existing space used as a support lab is small and inadequate to handle, prepare, and test blood and tissue samples, particularly as the research portfolio at this center has increased recently. This proposed facility would complement the research activities that will be carried out in the new Agronomy laboratory, thereby enhancing the two major research foci of this Center. Livestock holding pens and sheds also are inadequate to address the research and outreach needs for the Coteau region of the state. Specifically, the development of replicated dry lot research pens would allow scientists to answer a broader range of questions relating to beef cow and calf management; a feed handling facility would improve the Center's ability to ensure diet accuracy and improve overall feed management; and a nutrient management/wastewater containment system is lacking and is needed to address possible health and pollution issues.

21-23 Request: \$1,963,000

21-23 Funding Received: \$1,963,000 (Special session - ARPA)

Funds Expended through 12/31/22: \$79,440

Current Status: Bid opening was held on 12/22/22. Several bids were received. Bids were not accepted as there were not adequate funds to complete the project.

23-25 Additional Funding Requested: \$400,000

Hettinger REC Sheep Feed Efficiency Research Facility

Traditionally, high grain prices and volatile commodity prices have raised interest and emphasis on increasing the efficiency of sheep production during all phases of production (rams, ewes and feedlot performance). No facility exists in the northern Great Plains to evaluate feed efficiency in sheep production, but the HREC is well situated and established in the sheep industry to expand its research capabilities through a new facility that can monitor individual animal intake in a pen setting. Research would evaluate genetic potential of breeding stock (rams and ewes) that measures feed intake in relation to performance, as well as feedlot research to complement and provide additional replication to the large-scale trials conducted at the Southwest Feeders Feedlot at the HREC.

21-23 Request: \$1,891,000

21-23 Funding Received: \$1,891,000 (Special session - ARPA)

Funds Expended through 12/31/22: \$75,594

Current Status: Bid opening was held 1/5/23. Bid was accepted.

23-25 No additional funding requested

Carrington REC Feedlot Research Support Facility

Construction of a multi-use Feedlot Research Support Facility at the livestock unit would improve feedlot research operational capability, assist in sustaining Institutional Animal Care and Use Committee (IACUC) compliance, attain worker protection standards and reduce maintenance costs for equipment. The CREC has a critical need for a facility at the livestock unit that would combine a dispensary for processing and storing pharmaceuticals and animal health supplies; laboratory space for feeds, blood, fecal and tissue processing; inside tempered storage for daily use feeding equipment; and a shop area for tools, equipment, and equipment maintenance and minor repairs. This facility has been a longtime priority project for the CREC. The CREC livestock program is the primary outstate program for beef feedlot research and evaluation of feeds and feedstuffs for beef production.

21-23 Request: \$450,000

21-23 Funding Received: \$450,000 (Regular session - SIIF)

Funds Expended through 12/31/22: \$30,010

Current Status: Bid opening in July 2022 resulted in one electrical bid and no general contractor bids. Project was re-advertised and bids opened in September 2022 resulting in one general contractor bid for \$1,090,000. This bid was not accepted.

23-25 Additional Funding Request: \$640,000

Hettinger REC Livestock Processing and Research Support Facility

The HREC Southwest Feeders Feedlot cattle and sheep feedlot (24 pens with a capacity of 192 calves or 960 lambs) has provided significant research and outreach to support the livestock industry in the state and region. Feedlot research results are annually published in refereed journals, the ND Beef Cattle Research Report, and the ND Sheep Research Report, in addition to being the centerpiece for research-related livestock outreach efforts at the HREC. The current feedlot has a small (512 square foot) facility that does not support current research or outreach activities. The facility does not provide a secure area to store and administer veterinary supplies, an area for sorting animals into treatments and pens, an area to hold animals indoors for observation and sample collection or office space for the herdsman and has no restroom facilities. A multi-species processing and research support facility would greatly enhance the livestock research conducted at the HREC and expand AES research capabilities in beef cattle and lamb feedlot nutrition and management.

21-23 Request: \$1,529,000

21-23 Funding Received: \$1,529,000 (Special session - ARPA)

Funds Expended through 12/31/22: \$61,308

Current Status: Bid opening was held 1/12/2022. Bids are currently under review.

23-25 No additional funding requested

Dickinson REC Agricultural Lab and Shop Facility

This new building will include shop space, grain cleaning, seed sample processing, forage handling, plant pathology field sample storage of which some will need air quality control, explosion proof electrical, etc. The current facilities lack adequate heating and cooling and have inadequate dust collection systems necessary for the safety of the employees at the REC. The current shop facility is not large enough to allow repair of modern agricultural research equipment.

21-23 Request: \$2,200,000

21-23 Funding Received: \$2,200,000 (Special session - ARPA)

Funds Expended through 12/31/22: \$71,914

Current Status: Bid opening was held 1/18/23. Bid was accepted.

23-25 No additional funding requested

Carrington REC Feedlot Pen Expansion with Waste Containment

Meeting the expanding demands for feedlot research is partially limited by available pens. Current pens are fully utilized. The CREC is continually challenged to do more livestock nutrition research; however, feedlot pen availability is a clear limitation. The addition of a minimum of 12 pens that would hold up to 240 head of cattle would allow the CREC to conduct at least one additional experiment per feed-out period. Further, the additional pens will allow more treatments and replications within other feedlot studies, which would improve statistical confidence and precision. Any feedlot pen expansion must include the associated waste containment facilities to remain compliant with state law. The CREC livestock program is the primary outstate program with the mission for beef feedlot research and evaluation of feeds and feedstuffs for beef production. Beyond the ability to conduct additional experiments or evaluate more treatments with greater replication, the additional feedlot pens would be developed to expand the depth and speed of the ability to evaluate other factors that impact feeding livestock in North Dakota. These factors include minimizing animal stress, mitigating winter stress, managing influences on environmental concerns, beef animal efficiency and other issues that ultimately impact the viability of beef cattle production and feeding in the state.

21-23 Request: \$325,000

21-23 Funding Received: \$325,000 (Regular session - SIF)

Funds Expended through 12/31/22: \$4,000

Current Status: One bid of \$295,000 was received for the concrete portion of the pen expansion. The bid did not include the needed water and electrical work, feedlot penning and supplies which will be purchased separately. Estimated cost is \$420,000.

23-25 Additional Funding Request: \$95,000

Carrington REC Covered Feeding (Hoop barn or Mono-slope)

The expansion of feedlot pens would be implemented in a manner that is conducive to future construction of a covered facility either in the form of a hoop barn or mono-slope. This would allow research to evaluate mitigation of winter and summer extremes on animal performance when compared to open lot production. Covered pens also will provide research data on changes to the waste and environmental issues that often challenge the livestock industry.

21-23 Request: \$129,600

21-23 Funding received: \$129,600 (Special session - ARPA)

Funds Expended through 12/31/22: \$0

Current Status: This project is contingent on completion of the feedlot pen expansion. Mono-slope structure would better protect the smart feeders from the elements. Estimated cost for this project is \$594,000.

23-25 Additional Funding Request: \$464,400

Carrington REC Bulk Feed Commodity Storage Structure

A major program research responsibility of the CREC is to conduct research that evaluates how North Dakota-derived feedstuffs may be most appropriately utilized in livestock feeding rations with focus on beef production. The research program utilizes many different types of feedstuffs including those that must be stored in bulk. Presently, feedstuffs such as distiller's grains, soybean hulls, ground hay/straw, etc. are stored outside on the ground, which exposes the products to the weather elements, soil contamination and mixture with adjacent products. Animal nutrition research is compromised when the feed products become degraded or contaminated. This addition will enable the research program to expand the variety and number of commodities utilized in feeding studies, improve precision of mixed rations and reduce feed product waste, lowering costs to both the CREC and producers who consign cattle to the studies.

21-23 Request: \$102,600

21-23 Funding Received: \$102,600 (Special session - ARPA)

Funds Expended through 12/31/22: \$2,800

Current Status: Project was put out for bid in June 2022 and was extended into August 2022 with no bids submitted. Project was reassessed and revised cost estimate is \$260,000.

23-25 Additional Funding Request: \$157,400

Carrington REC Smart Feed Technology System

These systems allow for more intensive data collection and individual animal application of treatment rations. Feed intake is one of the main drivers of livestock performance. By increasing the abilities of CREC and collaborating researchers to more accurately measure intake and expand the depth of treatments applied within studies, more detailed information can be provided to area producers. Smart feed systems would increase opportunities to study issues to a greater scope and depth, thereby increasing competitiveness for grant funds to support the broader research program.

21-23 Request: \$213,800

21-23 Funding received: \$213,800 (Special session – ARPA)

Funds Expended through 12/31/22: \$0

Current Status: Installation of this equipment is contingent on completion of the other feedlot projects at the Carrington REC. Since those projects could not be completed, equipment purchase is on hold.

23-25 No additional funding requested

Central Grasslands REC Housing

The current director is living in the house that should be for the center herdsman. A new house will need to be built to provide housing for personnel who need to be on site for day-to-day operations. Construction of a new residence would offset the substantial costs associated with repair to the existing residence.

21-23 Request: \$325,000

21-23 Funding Received: \$325,000 (Regular session – SIIF)

Current Status: Project was bid in August 2022 with no bids submitted.

23-25 Additional Funding Request: \$175,000 special funds authorization

Williston REC Greenhouse

A greenhouse is needed for the WREC plant pathology, weed science, agronomy, and horticulture programs to allow for conducting plant disease, weed, agronomic, and horticulture research during the winter months and to provide consistent growing conditions to replicate different environmental challenges.

19-21 Request: \$500,000 special funds authorization

19-21 Funding Received: \$500,000 special funds authorization

Funds Expended through 12/31/22: \$0

Current Status: Special fund authorization in the amount of \$500,000 was authorized by the 67th North Dakota legislative assembly, and \$500,000 has been raised. Unfortunately, the current bidding environment indicates that \$500,000 is no longer enough authorization for the construction of a new greenhouse. Estimated cost is now \$1,250,000.

23-25 Additional Funding Request: \$750,000 special funds authorization

Location	Project	Funding Source	Authorized Amt	Bid/Estimated Amount	Bid/Estimate	Additional General Fund Request	Additional Special Funds Request
LREC	Greenhouse	SIIF	473,000	724,430	Bid	251,430	
CREC	Feedlot Research Support Facility	SIIF	450,000	1,090,000	Bid	640,000	
CREC	Feedlot Pen Expansion with Waste Containment	SIIF	325,000	420,000	Estimate	95,000	
CREC	Covered Feeding (Hoop barn or Mono-slope)	ARPA	129,600	594,000	Estimate	464,400	
CREC	Bulk Feed Commodity Storage Structure	ARPA	102,600	260,000	Estimate	157,400	
CREC	Smart Feed Technology System	ARPA	213,800	213,800	Estimate		
CGREC	REC Housing	SIIF	325,000	500,000	Estimate		175,000
CGREC	Livestock Facility	ARPA	1,963,000	2,363,000	Bid	400,000	
DREC	Agricultural Lab and Shop Facility	ARPA	2,200,000	2,200,000	Bid		
HREC	Sheep Efficiency Facility	ARPA	1,891,000	1,891,000	Bid		
HREC	Livestock Processing and Research Support Facility	ARPA	1,529,000	1,529,000	Bid		
WREC	Greenhouse	Capital Campaign	500,000	1,250,000	Estimate		750,000
						2,008,230	925,000

23.0249.01000

Sixty-eighth
Legislative Assembly
of North Dakota

HOUSE BILL NO. 1020

Introduced by

Appropriations Committee

1 A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota
2 state university extension service, northern crops institute, upper great plains transportation
3 institute, main research center, branch research centers, and agronomy seed farm; to provide
4 for a report; and to provide an exemption.

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
7 as may be necessary, are appropriated out of any moneys in the general fund in the state
8 treasury, not otherwise appropriated, and from special funds derived from federal funds and
9 other income, to the North Dakota state university extension service, the northern crops
10 institute, the upper great plains transportation institute, the main research center, branch
11 research centers, and agronomy seed farm for the purpose of defraying the expenses of the
12 North Dakota state university extension service, the northern crops institute, the upper great
13 plains transportation institute, the main research center, branch research centers, and
14 agronomy seed farm, for the biennium beginning July 1, 2023, and ending June 30, 2025, as
15 follows:

16 Subdivision 1.

17 NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

		Governor's	
	<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
18			
19			
20	Extension service	\$56,530,224	\$62,872,382
21	Soil conservation committee	<u>1,211,520</u>	<u>1,211,520</u>
22	Total all funds	\$57,741,744	\$64,083,902
23	Less estimated income	<u>28,303,921</u>	<u>30,749,341</u>
			<u>28,303,921</u>

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1	Total general fund	\$29,437,823	\$33,334,561	\$29,437,823
2	Full-time equivalent positions	241.77	250.70	241.77
3	Subdivision 2.			
4	NORTHERN CROPS INSTITUTE			
5			Governor's	
6		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
7	Northern crops institute	<u>\$3,909,760</u>	<u>\$9,670,018</u>	<u>\$3,909,760</u>
8	Total all funds	\$3,909,760	\$9,670,018	\$3,909,760
9	Less estimated income	<u>1,922,618</u>	<u>7,501,125</u>	<u>1,922,618</u>
10	Total general fund	\$1,987,142	\$2,168,893	\$1,987,142
11	Full-time equivalent positions	13.55	18.15	13.55
12	Subdivision 3.			
13	UPPER GREAT PLAINS TRANSPORTATION INSTITUTE			
14			Governor's	
15		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
16	Upper great plains transportation	<u>\$23,527,957</u>	<u>\$25,029,434</u>	<u>\$23,527,957</u>
17	institute			
18	Total all funds	\$23,527,957	\$25,029,434	\$23,527,957
19	Less estimated income	<u>19,042,350</u>	<u>19,806,123</u>	<u>19,042,350</u>
20	Total general fund	\$4,485,607	\$5,223,311	\$4,485,607
21	Full-time equivalent positions	43.88	43.88	43.88
22	Subdivision 4.			
23	MAIN RESEARCH CENTER			
24			Governor's	
25		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
26	Main research center	<u>\$111,676,188</u>	<u>\$123,906,875</u>	<u>\$111,676,188</u>
27	Total all funds	\$111,676,188	\$123,906,875	\$111,676,188
28	Less estimated income	<u>57,087,956</u>	<u>62,227,709</u>	<u>57,087,956</u>
29	Total general fund	\$54,588,232	\$61,679,166	\$54,588,232
30	Full-time equivalent positions	334.56	357.47	334.56
31	Subdivision 5.			

1	BRANCH RESEARCH CENTERS			
2			Governor's	
3		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
4	Dickinson research center	\$7,078,838	\$7,332,514	\$7,078,838
5	Central grasslands research center	3,553,320	3,697,275	3,553,320
6	Hettinger research center	5,174,885	5,451,042	5,174,885
7	Langdon research center	3,091,310	3,262,949	3,091,310
8	North Central research center	5,203,251	5,429,811	5,203,251
9	Williston research center	5,362,734	5,658,597	5,362,734
10	Carrington research center	<u>9,827,963</u>	<u>10,377,148</u>	<u>9,827,963</u>
11	Total all funds	\$39,292,301	\$41,209,336	\$39,292,301
12	Less estimated income	<u>20,722,818</u>	<u>21,270,677</u>	<u>20,722,818</u>
13	Total general fund	\$18,569,483	\$19,938,659	\$18,569,483
14	Full-time equivalent positions	108.21	109.81	108.21

15 Subdivision 6.

16	AGRONOMY SEED FARM			
17			Governor's	
18		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
19	Agronomy seed farm	<u>\$1,579,655</u>	<u>\$1,638,076</u>	<u>\$1,579,655</u>
20	Total special funds	\$1,579,655	\$1,638,076	\$1,579,655
21	Full-time equivalent positions	3.00	3.00	3.00

22 Subdivision 7.

23	SECTION 1 TOTAL			
24			Governor's	
25		<u>Base Level</u>	<u>Recommendation</u>	<u>Appropriation</u>
26	Grand total general fund	\$109,068,287	\$122,344,590	\$109,068,287
27	Grand total other funds	<u>128,659,318</u>	<u>143,193,051</u>	<u>128,659,318</u>
28	Grand total all funds	\$237,727,605	\$265,537,641	\$237,727,605

29 **SECTION 2. ONE-TIME FUNDING.** The following amounts reflect the one-time funding
30 items approved by the sixty-seventh legislative assembly for the 2021-23 biennium:

1	<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
2	Deferred maintenance	\$500,000	\$0
3	Carrington research extension center capital projects	1,221,000	0
4	Central grasslands research extension center	2,488,000	0
5	capital projects		
6	Dickinson research extension center capital projects	2,200,000	0
7	Hettinger research extension center capital projects	3,720,000	0
8	Langdon research extension center capital projects	473,000	0
9	Remote sensing of infrastructure	<u>2,225,000</u>	<u>0</u>
10	Total all funds	\$12,827,000	\$0
11	Total other funds	<u>12,327,000</u>	<u>0</u>
12	Total general fund	\$500,000	\$0

13 **SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**

14 **INCOME.** The Dickinson research extension center may spend up to \$755,000 of revenues
 15 received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing
 16 operational expenses. Any revenues received in excess of \$755,000 may be spent only for
 17 one-time expenditures for the biennium beginning July 1, 2023, and ending June 30, 2025.

18 **SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**

19 **INCOME - REPORT.** The Williston research extension center shall report to the sixty-ninth
 20 legislative assembly on amounts received and spent from mineral royalties, leases, or
 21 easements in the biennium beginning July 1, 2021, and ending June 30, 2023, and the
 22 biennium beginning July 1, 2023, and ending June 30, 2025.

23 **SECTION 5. ADDITIONAL INCOME - APPROPRIATION.** In addition to the amount

24 included in the grand total other funds appropriation line item in section 1 of this Act, any other
 25 income, including funds from federal acts, private grants, gifts, and donations, or from other
 26 sources received by the North Dakota state university extension service, the northern crops
 27 institute, the upper great plains transportation institute, the main research center, branch
 28 research centers, and agronomy seed farm, except as otherwise provided by law, is
 29 appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium
 30 beginning July 1, 2023, and ending June 30, 2025.

1 **SECTION 6. EXEMPTION - TRANSFER AUTHORITY.** Notwithstanding section 54-16-04,
2 upon approval of the state board of agricultural research and education and appropriate branch
3 research center directors, the director of the office of management and budget shall transfer
4 appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act.

5 **SECTION 7. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS -**
6 **REPORT.** Notwithstanding any other provisions of law, the state board of higher education may
7 adjust or increase full-time equivalent positions as needed for the entities in section 1 of this
8 Act, subject to availability of funds. All full-time or part-time positions must be separate from
9 North Dakota state university. Annually, the board shall report to the office of management and
10 budget and to the budget section any adjustments made pursuant to this section.

11 **SECTION 8. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME.** Any
12 unexpended general fund appropriation authority available to and any excess income received
13 by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11,
14 and any unexpended funds from these appropriations or revenues are available and may be
15 expended by those entities, during the biennium beginning July 1, 2025, and ending June 30,
16 2027.

Introduced by

Appropriations Committee

1 A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota
2 state university extension service, northern crops institute, upper great plains transportation
3 institute, main research center, branch research centers, and agronomy seed farm; to provide
4 for a report; to provide for a transfer; to provide an exemption; and to declare an emergency.

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
7 as may be necessary, are appropriated out of any moneys in the general fund in the state
8 treasury, not otherwise appropriated, and from special funds derived from federal funds and
9 other income, to the North Dakota state university extension service, the northern crops
10 institute, the upper great plains transportation institute, the main research center, branch
11 research centers, and agronomy seed farm for the purpose of defraying the expenses of the
12 North Dakota state university extension service, the northern crops institute, the upper great
13 plains transportation institute, the main research center, branch research centers, and
14 agronomy seed farm, for the biennium beginning July 1, 2023, and ending June 30, 2025, as
15 follows:

16 Subdivision 1.

17 NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

		Adjustments or	
	<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
18			
19			
20	Extension service	\$6,094,267	\$62,624,491
21	Soil conservation committee	<u>1,211,520</u>	<u>1,361,520</u>
22	Total all funds	\$6,244,267	\$63,986,011
23	Less estimated income	<u>28,303,921</u>	<u>30,368,513</u>

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1	Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
2	Full-time equivalent positions	241.77	13.93	255.70
3	Subdivision 2.			
4		NORTHERN CROPS INSTITUTE		
5			Adjustments or	
6		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
7	Northern crops institute	<u>\$3,909,760</u>	<u>\$5,735,724</u>	<u>\$9,645,484</u>
8	Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
9	Less estimated income	<u>1,922,618</u>	<u>5,566,328</u>	<u>7,488,946</u>
10	Total general fund	\$1,987,142	\$169,396	\$2,156,538
11	Full-time equivalent positions	13.55	4.60	18.15
12	Subdivision 3.			
13		UPPER GREAT PLAINS TRANSPORTATION INSTITUTE		
14			Adjustments or	
15		Base Level	Enhancements	Appropriation
16	Upper great plains transportation	<u>\$23,527,957</u>	<u>\$2,000,375</u>	<u>\$25,528,332</u>
17	institute			
18	Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
19	Less estimated income	<u>19,042,350</u>	<u>1,058,021</u>	<u>20,100,371</u>
20	Total general fund	\$4,485,607	\$942,354	\$5,427,961
21	Full-time equivalent positions	43.88	0.00	43.88
22	Subdivision 4.			
23		MAIN RESEARCH CENTER		
24			Adjustments or	
25		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
26	Main research center	<u>\$111,676,188</u>	<u>\$113,223,073</u>	<u>\$224,899,261</u>
27	Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
28	Less estimated income	<u>57,087,956</u>	<u>103,473,971</u>	<u>160,561,927</u>
29	Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
30	Full-time equivalent positions	334.56	27.91	362.47
31	Subdivision 5.			

1	BRANCH RESEARCH CENTERS			
2			Adjustments or	
3		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
4	Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
5	Central grasslands research center	3,553,320	115,371	3,668,691
6	Hettinger research center	5,174,885	233,889	5,408,774
7	Langdon research center	3,091,310	394,636	3,485,946
8	North Central research center	5,203,251	184,131	5,387,382
9	Williston research center	5,362,734	245,458	5,608,192
10	Carrington research center	<u>9,827,963</u>	<u>463,191</u>	<u>10,291,154</u>
11	Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
12	Less estimated income	<u>20,722,818</u>	<u>459,658</u>	<u>21,182,476</u>
13	Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
14	Full-time equivalent positions	108.21	2.60	110.81
15	Subdivision 6.			
16	AGRONOMY SEED FARM			
17			Adjustments or	
18		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
19	Agronomy seed farm	<u>\$1,579,655</u>	<u>\$49,139</u>	<u>\$1,628,794</u>
20	Total special funds	\$1,579,655	\$49,139	\$1,628,794
21	Full-time equivalent positions	3.00	0.00	3.00
22	Subdivision 7.			
23	SECTION 1 TOTAL			
24			Adjustments or	
25		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
26	Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
27	Grand total other funds	<u>128,659,318</u>	<u>112,671,709</u>	<u>241,331,027</u>
28	Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559
29	SECTION 2. ONE-TIME FUNDING - EFFECT ON BASE BUDGET - REPORT TO THE			
30	SIXTY-NINTH LEGISLATIVE ASSEMBLY. The following amounts reflect the one-time funding			

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1 items approved by the sixty-seventh legislative assembly for the 2021-23 biennium and the
2 2023-25 biennium one-time funding items included in section 1 of this Act:

3	<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
4	Deferred maintenance	\$500,000	\$500,000
5	Transportation data intelligence center	0	432,600
6	Multimodal carbon dioxide transportation study	0	398,450
7	Northern crops institute feed production center facility upgrade	0	3,250,000
8	Pellet mill	0	650,000
9	Storage sheds	0	1,900,000
10	Nesson Valley irrigation research site project	0	1,200,000
11	Branch research extension centers capital projects inflation	0	2,933,230
12	Hettinger research extension center land purchase	0	1,038,000
13	Waldron Hall replacement project	0	97,000,000
14	Carrington research extension center capital projects	1,221,000	0
15	Central grasslands research extension center	2,488,000	0
16	capital projects		
17	Dickinson research extension center capital projects	2,200,000	0
18	Hettinger research extension center capital projects	3,720,000	0
19	Langdon research extension center capital projects	473,000	0
20	Remote sensing of infrastructure	<u>2,225,000</u>	<u>0</u>
21	Total all funds	\$12,827,000	\$109,302,280
22	Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
23	Total general fund	\$500,000	\$3,606,680

24 The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget
25 for the 2023-25 biennium. The upper great plains transportation center, northern crops institute,
26 and main research center shall report to the appropriations committees of the sixty-ninth
27 legislative assembly on the use of this one-time funding for the biennium beginning July 1,
28 2023, and ending June 30, 2025.

29 **SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**
30 **INCOME.** The Dickinson research extension center may spend up to \$755,000 of revenues
31 received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing

1 operational expenses. Any revenues received in excess of \$755,000 may be spent only for
2 one-time expenditures for the biennium beginning July 1, 2023, and ending June 30, 2025.

3 **SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**

4 **INCOME - REPORT.** The Williston research extension center shall report to the sixty-ninth
5 legislative assembly on amounts received and spent from mineral royalties, leases, or
6 easements in the biennium beginning July 1, 2021, and ending June 30, 2023, and the
7 biennium beginning July 1, 2023, and ending June 30, 2025.

8 **SECTION 5. ADDITIONAL INCOME - APPROPRIATION.** In addition to the amount
9 included in the grand total other funds appropriation line item in section 1 of this Act, any other
10 income, including funds from federal acts, private grants, gifts, and donations, or from other
11 sources received by the North Dakota state university extension service, the northern crops
12 institute, the upper great plains transportation institute, the main research center, branch
13 research centers, and agronomy seed farm, except as otherwise provided by law, is
14 appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium
15 beginning July 1, 2023, and ending June 30, 2025.

16 **SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS**
17 **FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS**

18 **INSTITUTE - MAIN RESEARCH CENTER.** The estimated income line item in subdivision 2 of
19 section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and
20 improvements fund for the northern crops institute feed production center facility upgrade and
21 pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the
22 sum of \$432,600 from the strategic investment and improvements fund for a transportation data
23 intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act
24 includes the sum of \$99,400,000 from the strategic investment and improvements fund for the
25 Waldron Hall replacement project, storage sheds, and deferred maintenance.

26 **SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND -**
27 **NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND**

28 **AUTHORIZED.** The appropriation in subdivision 4 of section 1 of this Act includes the sum of
29 \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of
30 real property for the Hettinger research center, for the biennium beginning July 1, 2023, and
31 ending June 30, 2025. The Hettinger research center shall make payments in lieu of property

1 taxes in the manner and according to the conditions and procedures that would apply if the
2 property were privately owned. The North Dakota state university main research center is
3 authorized to purchase four parcels of land in Adams County, described as:

- 4 1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
- 5 2. A tract of land in the northeast quarter of the southeast quarter of section 13,
6 township 129 north, range 96, Adams County;
- 7 3. The southeast quarter of the southeast quarter of section 13, the north half of the
8 northeast quarter of section 24, township 129 north, range 96, Adams County; and
- 9 4. The north half of the north half of section 19, township 129 north, range 95, Adams
10 County.

11 **SECTION 8. EXEMPTION - TRANSFER AUTHORITY.** Notwithstanding section 54-16-04,
12 upon approval of the state board of agricultural research and education and appropriate branch
13 research center directors, the director of the office of management and budget shall transfer
14 appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act.

15 **SECTION 9. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS -**
16 **REPORT.** Notwithstanding any other provisions of law, the state board of higher education may
17 adjust or increase full-time equivalent positions as needed for the entities in section 1 of this
18 Act, subject to availability of funds. All full-time or part-time positions must be separate from
19 North Dakota state university. Annually, the board shall report to the office of management and
20 budget and to the budget section any adjustments made pursuant to this section.

21 **SECTION 10. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME.** Any
22 unexpended general fund appropriation authority available to and any excess income received
23 by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11,
24 and any unexpended funds from these appropriations or revenues are available and may be
25 expended by those entities, during the biennium beginning July 1, 2025, and ending June 30,
26 2027.

27 **SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.** The amounts
28 appropriated from other funds for Carrington research center capital projects, central grasslands
29 research center capital projects, and Langdon research center capital projects in subdivision 4
30 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section
31 54-44.1-11, and any unexpended funds from these appropriations or related revenues are

1 available and may be expended during the biennium beginning July 1, 2023, and ending
2 June 30, 2025.

3 **SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL**
4 **STATE FISCAL RECOVERY FUND.** The amounts appropriated from federal funds derived from
5 the state fiscal recovery fund for one-time projects at the Carrington research center, central
6 grasslands research center, Dickinson research center, and Hettinger research center in
7 section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the
8 provisions of section 54-44.1-11, and any unexpended funds from these appropriations are
9 available and may be expended during the biennium beginning July 1, 2023, and ending
10 June 30, 2025.

11 **SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT**
12 **CONSTRUCTION.** The main research center, for its use of the \$2,400,000 appropriated from
13 the strategic investment and improvements fund for deferred maintenance and branch research
14 center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main
15 research center may spend this funding without procuring plans, drawings, and specifications
16 from an architect or engineer.

17 **SECTION 14. EMERGENCY.** The \$250,000 appropriated from the general fund for a spud
18 research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency
19 measure.

Hettinger Research Extension Center

Land Purchase

The Hettinger Research Extension Center (HREC) currently utilizes 4,242 acres for grazing, forage, livestock research, and agronomic research, comprised of 1,200 acres of owned land and 3,042 acres of rented land. Rangeland research utilizes 3,328 acres, crop research 117 acres, feedstocks production 510 acres, facilities 90 acres, and non-ag lands 197 acres. Currently 28% of the land the HREC conducts research on is owned by NDSU, with the remaining being rented. Of the rented land, 1,379 acres are located near Bismarck and Mandan, ND on State Prison Lands (approximately 150 miles from the HREC), with the remaining rented land being in close proximity to the HREC. However, of the rented land around Hettinger, the majority of it is in its 3rd generation of rental contracts. One family has expressed a desire to sell 610 acres of land that is currently being utilized to support research programs in livestock production as well as range and wildlife. This land has been rented and used in these research programs since 2006 and this land is critical to these programs. The potential purchase of 610 acres of land would solidify the land base for these research programs. If these lands are sold our research programs will be drastically impacted as the majority of these lands have long term rangeland research being conducted on them. The family has agreed to provide the NDSU Hettinger REC the first opportunity to purchase the land before putting it up for sale privately. If sale is approved, exact acreage will be determined upon completion of a survey. The total acreage shown on the Adams County Real Estate Tax Statements is 610.96. That would represent a sales price of \$1,038,632 at \$1,700 per acre.

NOTE: This land purchase has now been included in HB1020.



WHAT WE LOOKED AT AND WHY

North Dakota state law requires that our team perform an audit once every two years. This includes a review of financial transactions and determining that expenses are correct. Our audits report any errors, internal control weaknesses or potential violations of law identified in significant or high-risk functions of the agency.

WHAT WE FOUND

This audit did not identify any areas of concern.

North Dakota University System
 NDSU Extension, Main & Branch Research Centers, and Agronomy Seed Farm
 Major Components of current base level

	630 Extension	640 Main Station	641 Dickinson	642 Central Grasslands	643 Hettinger	644 Langdon	645 North Central	646 Williston	647 Carrington	649 Agronomy Seed Farm
Salaries	\$ 56,118,138	\$ 93,815,066	\$ 2,997,958	\$ 2,438,190	\$ 3,140,280	\$ 1,988,194	\$ 3,119,558	\$ 3,793,343	\$ 6,679,699	\$ 642,991
Operating	7,965,764	22,871,809	3,209,556	984,085	1,985,762	1,019,755	1,885,253	1,140,254	2,472,449	695,085
Equipment	-	4,600,000	1,125,000	275,000	325,000	255,000	425,000	725,000	1,225,000	300,000
Capital Projects	-	-	-	-	-	-	-	-	-	-
Total Budget	\$ 64,083,902	\$ 121,286,875	\$ 7,332,514	\$ 3,697,275	\$ 5,451,042	\$ 3,262,949	\$ 5,429,811	\$ 5,658,597	\$ 10,377,148	\$ 1,638,076
Funding:										
Federal Fund*	\$ 9,458,045	\$ 8,449,779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Fund	33,334,561	61,679,166	3,845,780	2,237,929	2,529,723	1,818,980	2,185,672	3,183,301	4,137,274	-
Special Fund*	21,291,296	51,157,930	3,486,734	1,459,346	2,921,319	1,443,969	3,244,139	2,475,296	6,239,874	1,638,076
Total Funding	\$ 64,083,902	\$ 121,286,875	\$ 7,332,514	\$ 3,697,275	\$ 5,451,042	\$ 3,262,949	\$ 5,429,811	\$ 5,658,597	\$ 10,377,148	\$ 1,638,076

*No changes anticipated for 2023-25 biennium
 Federal funds support salaries for programatic areas related to research and extension; deadlines vary among awards

Source: SHERPA 2023-25, Governor's Recommendation

**Appropriation Status
Reports**

2021-23 Legislation that Included Reporting Requirements to 2023 Appropriations Committees – NDAES

SB2020 (NDSU Research & Extension, & Agronomy Seed Farm)

SECTION 2. ONE-TIME FUNDING - EFFECT ON BASE BUDGET - REPORT TO THE SIXTY-EIGHTH LEGISLATIVE ASSEMBLY. The following amounts reflect the one-time funding items approved by the sixty-sixth legislative assembly for the 2019-21 biennium and the 2021-2023 biennium one-time funding items included in the appropriation in section 1 of this Act:

One-Time Funding Description

Deferred maintenance - \$500,000

Carrington research extension center capital projects - \$775,000

Central grasslands research extension center - \$525,000

Hettinger research extension center capital projects - \$300,000

Langdon research extension center capital projects - \$473,000

The 2021-23 one-time funding amounts are not a part of the entity's base budget for the 2023-25 biennium. The main and branch research center shall report to the appropriations committees of the sixty-eighth legislative assembly on the use of this one-time funding for the biennium beginning July 1, 2021, and ending June 30, 2023.

- Deferred maintenance
Status: Additional deferred maintenance funds of \$500,000 are on track to be spent by 6/30/2023.
- Carrington research extension capital projects
Status: The Carrington REC feedlot research support facility project had a bid opening in July 2022 resulting in one electrical bid and no general contractor bids. Project was re-advertised and bids opened in September 2022 resulting in one general contractor bid for \$1,090,000. This bid was not accepted. The feedlot pen expansion project received one bid of \$295,000 for the concrete portion of the pen expansion. The bid did not include the needed feedlot equipment which will be purchased separately. Requesting additional funding and carryover to complete projects.
- Central Grasslands research extension capital projects
Status: One of the two pasture facilities is complete. The second pasture facility is approximately 50% complete. Completion is scheduled for May 2023. The REC residence project was bid in August 2022 with no bids submitted. Requesting additional authorization and carryover.
- Hettinger research extension capital projects
Status: Hettinger REC storage shed is complete. The size of the shed was decreased from the original planned size to stay within budget.
- Langdon research extension capital projects
Status: One bid was received for \$724,430 in June 2022. Architect has suggested to rebid the project in spring 2023. Requesting additional funding and carryover.

SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS INCOME.

The Dickinson research extension center may spend up to \$755,000 of revenues received during the 2021-23 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the biennium beginning July 1, 2021, and ending June 30, 2023.

Status: Oil revenue received July 1, 2021 to December 31, 2022 - \$188,522

SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS INCOME.

The Williston research extension center shall report to the sixty-eighth legislative assembly on amounts received and spent from mineral royalties, leases, or easements in the biennium beginning July 1, 2019, and ending June 30, 2021, and the biennium beginning July 1, 2021, and ending June 30, 2023.

Status: July 1, 2019 to June 30, 2021 - Amounts received \$16,425; Amounts spent \$21,250
July 1, 2021 to December 31, 2022 - Amounts received \$773,251; Amounts spent \$147,999

SECTION 10. EXEMPTION. The \$500,000 of other funds appropriated for the Williston research extension center greenhouse and the \$750,000 from the general fund appropriated for the Williston research extension center seed cleaning plant in subdivision 4 of section 1 of chapter 20 of the 2019 Session Laws and the \$1,500,000 of other funds appropriated for the Williston research extension center seed cleaning plant in subdivision 5 of section 1 of chapter 45 of the 2017 Session Laws continued into the 2019-21 biennium pursuant to section 10 of chapter 20 of the 2019 Session Laws are not subject to the provisions of section 54-44.1-11, and any unexpended funds from these appropriations or related revenues are available and may be expended during the biennium beginning July 1, 2021, and ending June 30, 2023.

Carryover Status:

	OF Carryover	General Fund Carryover	Status
Williston greenhouse	\$500,000		\$500,000 raised; additional authorization and carryover requested
Williston seed cleaning plant	\$1,500,000	\$750,000	Project is complete

NDSU Extension Service - 630

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 29,437,823	\$ 18,209,001	\$ 11,228,822	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Main Research Station - 640

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$55,088,232	\$34,049,009	\$ 21,039,223	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Dickinson Research Center- 641

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 3,592,104	\$ 2,399,907	\$ 1,192,197	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Central Grasslands Research Center- 642

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 2,122,228	\$ 1,502,750	\$ 619,478	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Hettinger Research Center- 643

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 2,329,409	\$ 1,603,834	\$ 725,575	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Langdon Research Center- 644

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 1,689,312	\$ 1,159,469	\$ 529,843	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU North Central Research Center- 645

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 2,069,772	\$ 1,190,252	\$ 879,520	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Williston Research Center- 646

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 2,923,825	\$ 1,850,010	\$ 1,073,815	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Carrington Research Center- 647

Comparison of 2021-23 Appropriation and Estimated Spending

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$ 3,842,833	\$ 2,452,554	\$ 1,390,279	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

NDSU Agronomy Seed Farm- 649**Comparison of 2021-23 Appropriation and Estimated Spending**

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total Appropriation	\$ 1,579,655	\$ 962,197	\$ 617,458	

Source: November 2022 Appropriation Status Report

Note: No significant changes anticipated in federal formula funds or federal grants

**North Dakota University System
NDSU Extension, Main and Branch Research Centers
Reconciliation of 2021-23 Orig. General Fund Appropriation to 2023-25 Engrossed HB1020**

	<u>Extension Service</u>	<u>Main Research Center</u>	<u>Branch Research Centers</u>
2021-23 Original General Fund Appropriation	\$ 29,437,823	\$ 55,088,232	\$ 18,569,483
Base Adjustments:			
Capital Bond Payment adjustment		(178,069)	(63,173)
Less 2021-23 Capital Projects		(500,000)	
Cropping System Initiative (5 FTE)	1,400,000		
Livestock Development Initiative (3 FTE)	770,000		
Farm & Ranch Health & Safety Initiative	250,000		
Program Support for 4-H Initiative (1 FTE)	320,000		
Extension & State Soil Conservation Committee Operating Support Initiative	600,000		
Increased Food Security Initiative (1 FTE)	400,000		
Plant Production & Protection Initiative (7 FTE)		1,580,000	
Operating Support (3 FTE)		2,194,000	
Big Data Initiative (3 FTE)		838,000	
Climate Smart Agriculture (2 FTE)		458,200	
Bee and Apiary Research (2 FTE)		458,200	
Precision Agriculture		600,000	
Base Payroll adjustments	227,797	392,772	122,123
2021-23 Adjusted Appropriation, Less Base Adjustments- (2023-25 Base Budget Request)	33,405,620	60,931,335	18,628,433
2023-25 Executive Recommendation Base Increases (Decreases):			
Livestock Development Initiative (3 FTE)	(770,000)		
Farm & Ranch Health & Safety Initiative	(250,000)		
Program Support for 4-H Initiative (1 FTE)	(320,000)		
Extension & State Soil Conservation Committee Operating Support Initiative	(600,000)		
Increased Food Security Initiative (1 FTE)	(400,000)		
Plant Production & Protection Initiative (7 FTE)		(1,580,000)	
Operating Support (3 FTE)		(2,194,000)	
Compensation package salary/benefit increase 6%/4%	2,268,941	4,521,831	1,310,226
2023-25 Executive Recommended Base General Fund Increases(Decreases)	(71,059)	747,831	1,310,226
2023-25 Total Executive Recommended - General Fund	33,334,561	61,679,166	19,938,659
House Adjustments			
Compensation package salary/benefit increase 4%/4%	\$ (387,063)	(794,862)	(227,458)
Plant Production & Protection Initiative (1 FTE) LREC			250,000
Cropping System Initiative (2 FTE)	(700,000)		
Livestock Development Initiative (2 FTE)	500,000		
Farm & Ranch Health & Safety Initiative	250,000		
Program Support for 4-H Initiative (1 FTE)	320,000		
Extension & State Soil Conservation Committee Operating Support Initiative	300,000		
Spud Research Fast Track (1 FTE)		250,000	
Operating Funds (Precision Ag, Graduate Research Assistants, Oakes irrigation research site operations; other operation support)		560,000	
Big Data Initiative (1 FTE)		(369,000)	
Bee and Apiary Research (1 FTE)		(196,200)	
Nesson Valley irrigation research site capital project		1,200,000	
Branch research center capital project inflation		2,008,230	
2023-25 House General Fund Increases(Decreases)	282,937	2,658,168	22,542
House Total General Funds	33,617,498	64,337,334	19,961,201
Full-time equivalent positions 2021-23	123.67	204.19	78.11
Full-time equivalent positions 2023-25 House Amended	120.27	219.79	71.25

North Dakota University System
NDSU Extension, Main & Branch Research Centers and Agronomy Seed Farm
Reconciliation of 2021-23 Original Other Fund Budget Appropriation to 2023-25 Engrossed HB1020

	Extension Service	Main Research Center	Branch Research Centers	Agronomy Seed Farm
2021-23 Original Other Fund Appropriation	\$ 28,303,921	\$ 59,160,956	\$ 20,722,818	\$ 1,579,655
Base Payroll adjustments	108,985	117,136	18,337	4,604
Remove Capital Project & One Time funds		(2,073,000)		
2023-25 Adjusted Other Fund Appropriation(Base Budget Request)	\$ 28,412,906	\$ 57,205,092	\$ 20,741,155	\$ 1,584,259
2023-25 Executive Recommendation Base Increases (Decreases):				
Health Insurance increases				
Compensation package salary/benefit increase	2,336,435	2,402,617	529,522	53,817
Storage Sheds (SIIF)		1,900,000		
Deferred Maintenance (SIIF)		720,000		
2023-25 Executive Recommended Base Other Fund Increases(Decreases)	2,336,435	5,022,617	529,522	53,817
2023-25 Total Executive Recommended - Special Fund	\$ 30,749,341	\$ 62,227,709	\$ 21,270,677	\$ 1,638,076
House Adjustments				
Compensation package salary/benefit increase 4%/4%	\$ (380,828)	\$ (408,782)	\$ (88,201)	\$ (9,282)
Deferred Maintenance (SIIF)		\$ (220,000)		
Branch REC capital project inflation (local funds)		\$ 925,000		
Waldron Hall replacement project (SIIF)		\$ 97,000,000		
Hettinger REC land purchase (ARPA /SLFRF)		\$ 1,038,000		
2023-25 House Special Fund Increases(Decreases)	(380,828)	98,334,218	(88,201)	(9,282)
House Total Special Funds	30,368,513	160,561,927	21,182,476	1,628,794
Full-time equivalent positions 2021-23	118.10	130.37	30.10	3.00
Full-time equivalent positions 2023-25 House	135.43	142.68	39.56	3.00

**North Dakota University System
Branch Research Centers
Reconciliation of 2021-23 Orig. General Fund Appropriation to 2023-25 Engrossed HB1020**

	Dickinson	Central Grasslands	Hettinger	Langdon	North Central	Williston	Carrington	Total
General Fund:								
2021-23 Original General Fund Appropriation	\$ 3,592,104	\$ 2,122,228	\$ 2,329,409	\$ 1,689,312	\$ 2,069,772	\$ 2,923,825	\$ 3,842,833	\$ 18,569,483
2021-23 Adjusted GF Appropriation	3,592,104	2,122,228	2,329,409	1,689,312	2,069,772	2,923,825	3,842,833	18,569,483
Base Adjustments:								
Capital Bond Payment adjustment		(24,026)			(39,147)			(63,173)
Remove one time funding								-
Remove Capital Project								-
Cost to Continue Salary Increase	19,612	9,255	18,290	13,350	15,330	20,352	25,934	122,123
2023-25 Adjusted Appropriation, Less Base Adjustments	3,611,716	2,107,457	2,347,699	1,702,662	2,045,955	2,944,177	3,868,767	18,628,433
Engrossed HB1020 Increases (Decreases):								
Compensation package salary/benefit increase 4%/4%	195,088	108,281	149,231	96,063	115,502	194,583	224,020	1,082,768
SBARE Initiatives				250,000				250,000
2023-25 Recommended Base General Fund (Decreases)	195,088	108,281	149,231	346,063	115,502	194,583	224,020	1,332,768
2021-23 Adjusted Appropriation, Less Base Adjustments- (2023-25 Base Budget)	\$ 3,806,804	\$ 2,215,738	\$ 2,496,930	\$ 2,048,725	\$ 2,161,457	\$ 3,138,760	\$ 4,092,787	\$ 19,961,201
Full-time equivalent positions 2021-23	13.70	10.00	10.75	7.70	7.71	12.70	17.55	80.11
Full-time equivalent positions 2023-25 House Amended	13.20	8.50	9.80	6.79	6.71	11.70	14.55	71.25
Other Funds:								
2021-23 Original Other Fund Appropriation	\$ 3,486,734	\$ 1,431,092	\$ 2,845,476	\$ 1,401,998	\$ 3,133,479	\$ 2,438,909	\$ 5,985,130	\$ 20,722,818
Cost to Continue Salary Increase			1,809	181	2,659	1,802	11,886	18,337
Remove Capital Project								-
2021-23 Adjusted Other Fund Appropriation	\$ 3,486,734	\$ 1,431,092	\$ 2,847,285	\$ 1,402,179	\$ 3,136,138	\$ 2,440,711	\$ 5,997,016	\$ 20,741,155
Engrossed HB1020 Increases (Decreases):								
Compensation package salary/benefit increase 4%/4%	-	21,861	64,559	35,042	89,787	28,721	201,351	441,321
2023-25 Recommended Base Other Fund (Decreases)	-	21,861	64,559	35,042	89,787	28,721	201,351	441,321
2021-23 Adjusted Appropriation, Less Base Adjustments- (2023-25 Base Budget)	\$ 3,486,734	\$ 1,452,953	\$ 2,911,844	\$ 1,437,221	\$ 3,225,925	\$ 2,469,432	\$ 6,198,367	\$ 21,182,476
Full-time equivalent positions 2021-23	-	-	3.00	0.75	6.55	3.00	14.80	28.10
Full-time equivalent positions 2023-25 House Amended	-	2.50	4.90	2.66	8.30	3.00	18.20	39.56

2023-25 Budget Request
North Dakota Agricultural Experiment Station

	2023-25 SBARE Priority List	FTE	Executive Recommendation	FTE	House Amendment	FTE
Main Research Center						
SBARE #1: Plant Production and Protection Initiative	\$1,580,000		\$0		\$250,000	
Agronomist (DREC)	252,000	1.0	-	-		
Plant bacteriologist	252,000	1.0	-	-		
Plant bacteriologist technician	176,000	1.0	-	-		
Plant virologist	252,000	1.0	-	-		
Plant virologist technician	176,000	1.0	-	-		
Pulse breeding technician	176,000	1.0	-	-		
Technician for clubroot fungus (LREC)	176,000	1.0	-	-	176,000	1.0
Operating (LREC)	120,000		-	-	74,000	
Unranked						
Fast track potato breeding research technician	-		-		\$250,000	1.0
SBARE #2: Operating Support	\$2,194,000		\$0		\$560,000	
Grant development positions	594,000	3.0	-	-		
Graduate research assistantships	720,000		-	-	180,000	
Main Station and RECs-operating	480,000		-	-	180,000	
Oakes Irrigation Research Site-operating	400,000		-	-	200,000	
SBARE #3: Big Data Initiative	\$838,000		\$838,000		\$469,000	
Data analytics, management and curation position	319,000	1.5	319,000	1.5		
NDAWN position	319,000	1.5	319,000	1.5	319,000	1.0
Operating	200,000		200,000		150,000	
SBARE #4: Climate Smart Agriculture	\$458,200		\$458,200		\$458,200	
Climate smart agricultural scientist	242,200	1.0	242,200	1.0	242,200	1.0
Climate smart agricultural technician	176,000	1.0	176,000	1.0	176,000	1.0
Operating	40,000		40,000		40,000	
SBARE #5 (Tie): Bee and Apiary Research	\$458,200		\$458,200		\$262,000	
Bee and apiary scientist (HREC)	242,200	1.0	242,200	1.0	242,000	1.0
Bee and apiary research technician (HREC)	176,000	1.0	176,000	1.0		
Operating	40,000		40,000		20,000	
SBARE #5 (Tie): Precision Agriculture						
Operating	\$600,000		\$600,000		\$600,000	
SBARE - Base Increase - Main Research Station	\$6,128,400	17.0	\$2,354,400	7.0	\$2,849,200	6.0
ONE-TIME & CAPITAL FUNDING						
Deferred maintenance	1,440,465		720,000		500,000	
Equipment for an ag biotech innovation core	1,000,000		-		-	
Land purchase HREC <i>unranked</i>	1,038,000				1,038,000	
Capital:						
SBARE #1 Field lab facility	97,000,000		-		97,000,000	
SBARE #2 AES Equipment storage sheds (7 sheds)	3,325,000		1,900,000		1,900,000	
SBARE #3 Nesson Valley facility	1,700,000		-		1,200,000	
SBARE #4 Precision agriculture facility	55,000,000		-		-	
SBARE #5 Dairy barn	1,700,000		-		-	
Unranked						
Swine Unit Renovation <i>*added to request after House session (fundraising request)</i>	6,000,000		-		-	
Total One-time & capital funding-North Dakota Agricultural Experiment Station	\$168,203,465		\$2,620,000		\$101,638,000	
2021-23 CAPITAL CARRYOVER- ADDITIONAL FUNDING REQUEST						
General Fund:						
CREC Feedlot Research Support Facility	640,000		-		640,000	
CREC Feedlot Pen Expansion with Waste Containment	95,000		-		95,000	
CREC Covered Feeding (Hoop barn or Mono-slope)	464,400		-		464,400	
CREC Bulk Feed Commodity Storage Structure	157,400		-		157,400	
CGREC Livestock Facility	400,000		-		400,000	
LREC Greenhouse	251,430		-		251,430	
Special Fund:						
CGREC Housing	175,000		-		175,000	
WREC Greenhouse	750,000		-		750,000	
Total 2021-23 Capital carryover -additional funding request	\$2,933,230		\$0		\$2,933,230	

**2023-25 Budget Request
NDSU Extension**

	2023-25 SBARE Priority List	FTE	Executive Recommendation	FTE	House Amendment	FTE
NDSU Extension						
SBARE #1 Cropping Systems Initiative	\$1,400,000		\$1,400,000		\$700,000	
Western ND crop production specialist	200,000	1.0	200,000	1.0		
Soybean pathologist (campus)	200,000	1.0	200,000	1.0	200,000	1.0
Weed specialist	200,000	1.0	200,000	1.0	200,000	1.0
Carbon credit specialist	200,000	1.0	200,000	1.0		
Operating	200,000		200,000		300,000	
On-farm research coordinator	200,000	1.0	200,000	1.0		
On-farm Operating	200,000		200,000			
SBARE #2 Livestock Development Initiative	\$770,000		\$0		\$500,000	
Veterinary epidemiologist	250,000	1.0			250,000	1.0
Swine specialist	200,000	1.0			200,000	1.0
Off-campus livestock development specialist	200,000	1.0				
Operating	120,000				50,000	
SBARE #3 Farm and Ranch Health and Safety Initiative						
Farm and ranch health and safety resources operating	\$250,000		\$0		\$250,000	
SBARE #4 Program Support for 4-H Initiative	\$320,000		\$0		\$320,000	
4-H entrepreneurship specialist	200,000	1.0			200,000	1.0
4-H program operating support - including camping, clubs, after-school	120,000				120,000	
SBARE #5						
Extension and State Soil Conservation Committee Operating Support Initiative	\$600,000		\$0		\$300,000	
Extension program operating support	300,000				150,000	
SSCC operating support	300,000				150,000	
SBARE #6 Increased Food Security Initiative	\$400,000		\$0		\$0	
Urban ag/value-added food technologies specialist	200,000	1.0				
Operating support, including 2 new horticulture agents (western ND and in partnership with counties)	200,000					
SBARE - Base Increase - NDSU Extension Service	\$3,740,000	10.0	\$1,400,000	5.0	\$2,070,000	5.0

Federal Coronavirus Relief Fund
 CARES Act
 Federal Funding made available by Emergency Commission and Budget Section Action
 As of 09/27/2022

June 25, 2020

Agency	Amount Awarded	Amount Spent	To Be Spent/Invoiced	Purpose
Main Research Center	\$ 989,968	\$ 989,968	\$ -	Technology and equipment for remote work, additional labor, travel, PPE, additional cleaning & physical barriers
Branch Research Centers (total)	\$ 726,007	\$ 726,007	\$ -	Technology and video conferencing, employee teleworking, additional labor, travel, PPE, additional cleaning and physical barriers, other
NDSU Extension	\$ 855,400	\$ 855,400	\$ -	Technology to enhance remote program delivery, PPE, sanitizing supplies/kiosks, telework for Extension programs
	\$ 2,571,375	\$ 2,571,375	\$ -	

August 13, 2020

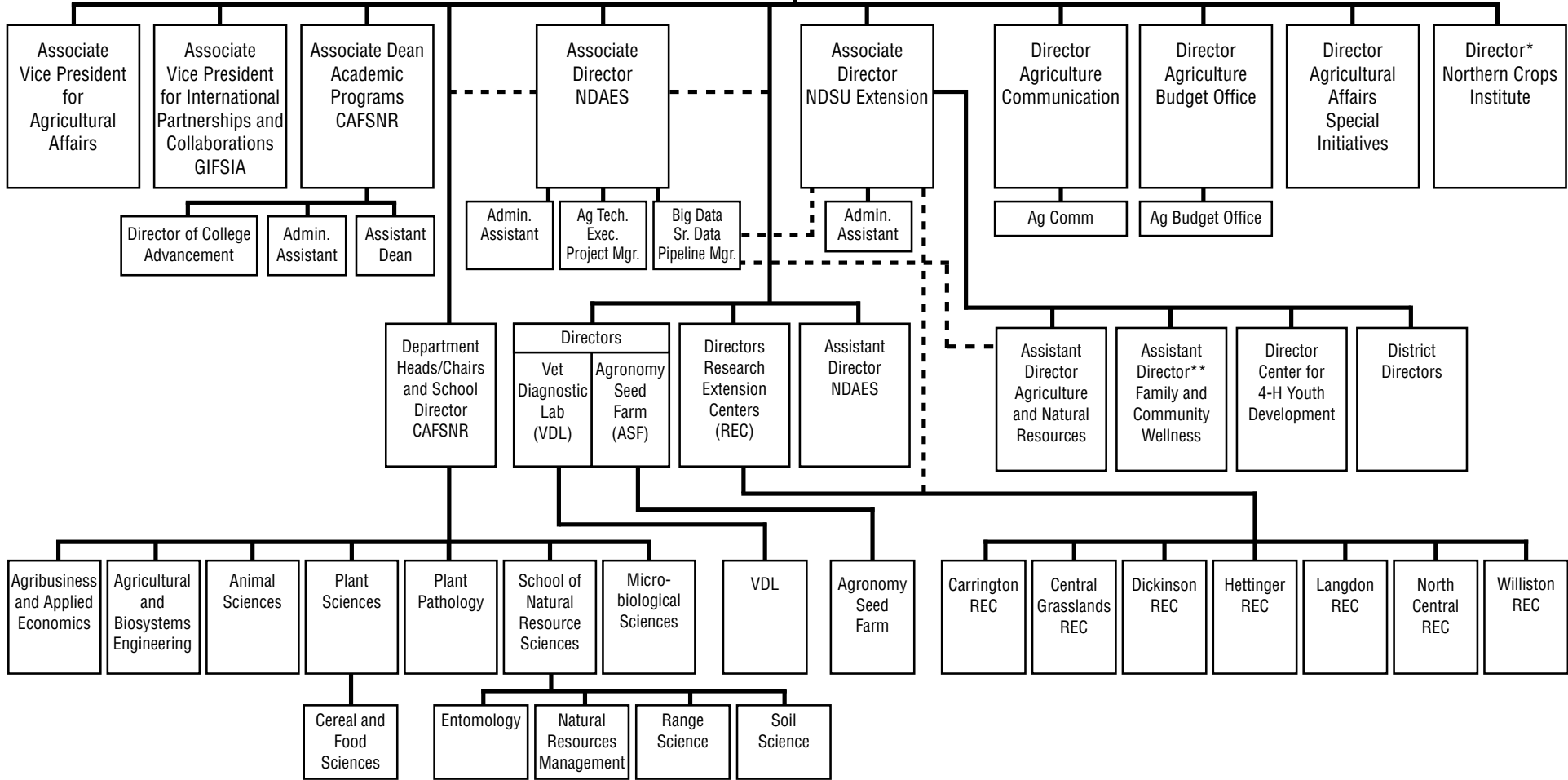
Agency	Amount Awarded	Amount Spent	To Be Spent/Invoiced	Purpose
Main Research Center	\$ 174,999	\$ 174,999	\$ -	Digital Pathology slide scanner; Install HVAC Ionization equipment
Branch Research Centers (total)	\$ 105,000	\$ 105,000	\$ -	Install HVAC Ionization equipment at each location
	\$ 279,999	\$ 279,999	\$ -	

North Dakota State University (NDSU)
President

VP AG, DEAN, DIRECTOR, DIRECTOR

Vice President for Agricultural Affairs Dean – College of Agriculture, Food Systems, and Natural Resources (CAFSNR) Director – North Dakota Agricultural Experiment Station (NDAES) Director – NDSU Extension

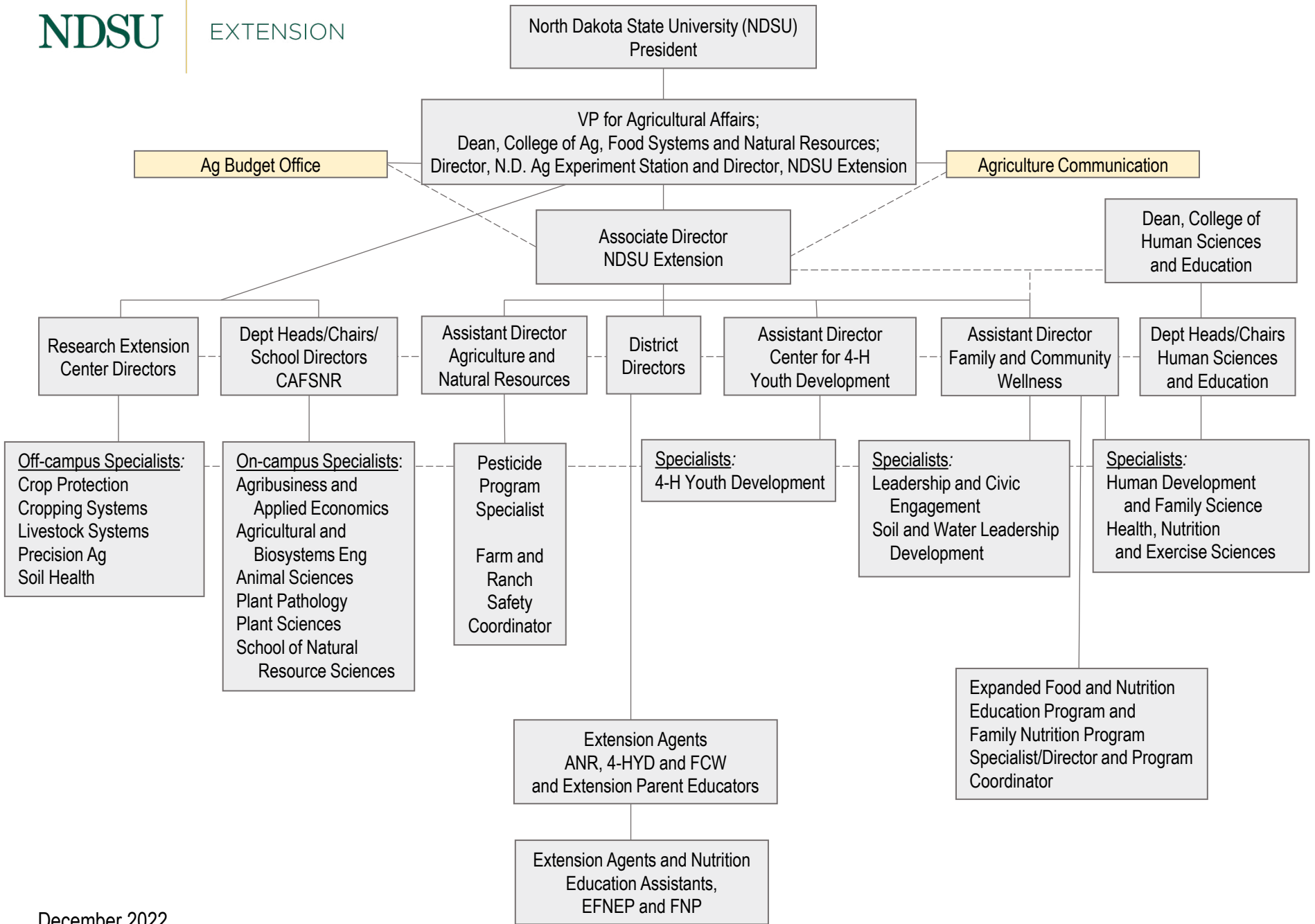
Assistant to the VP for Agricultural Affairs



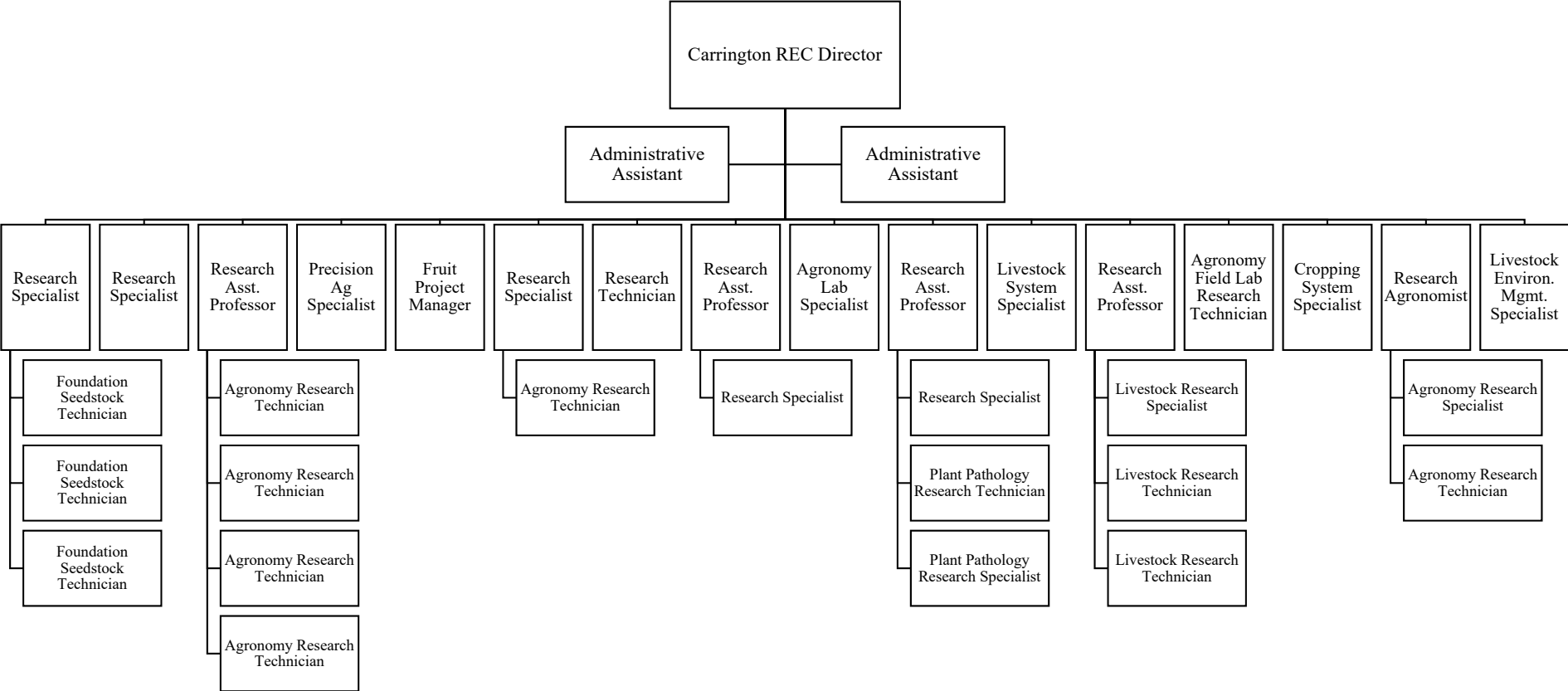
Organizational Charts 91

*Director reports to Northern Crops Council. NDSU administrative reporting only.

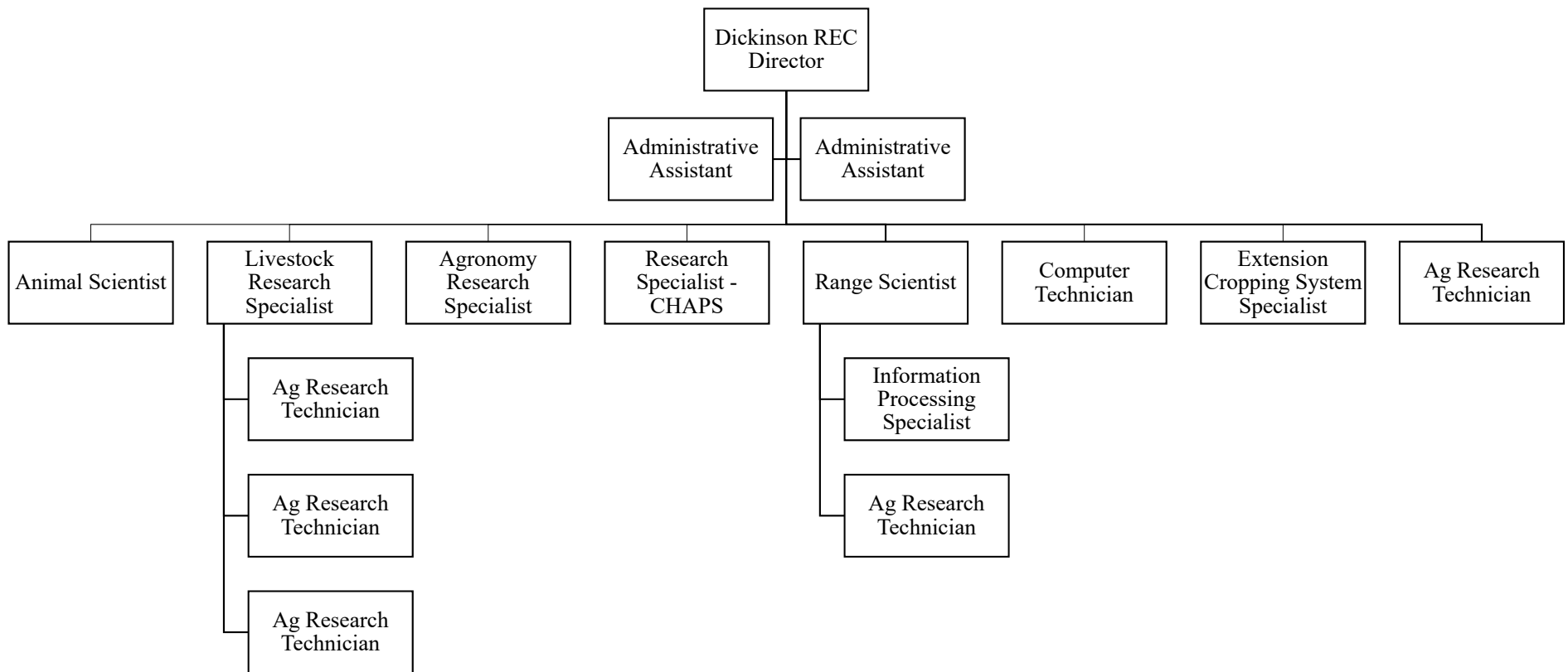
**Extension faculty and staff in the Department of Human Development and Family Science and the Department of Health, Nutrition and Exercise Sciences (not shown on this chart) report to their respective department head/chair and are co-supervised by the Assistant Director for Family and Community Wellness.



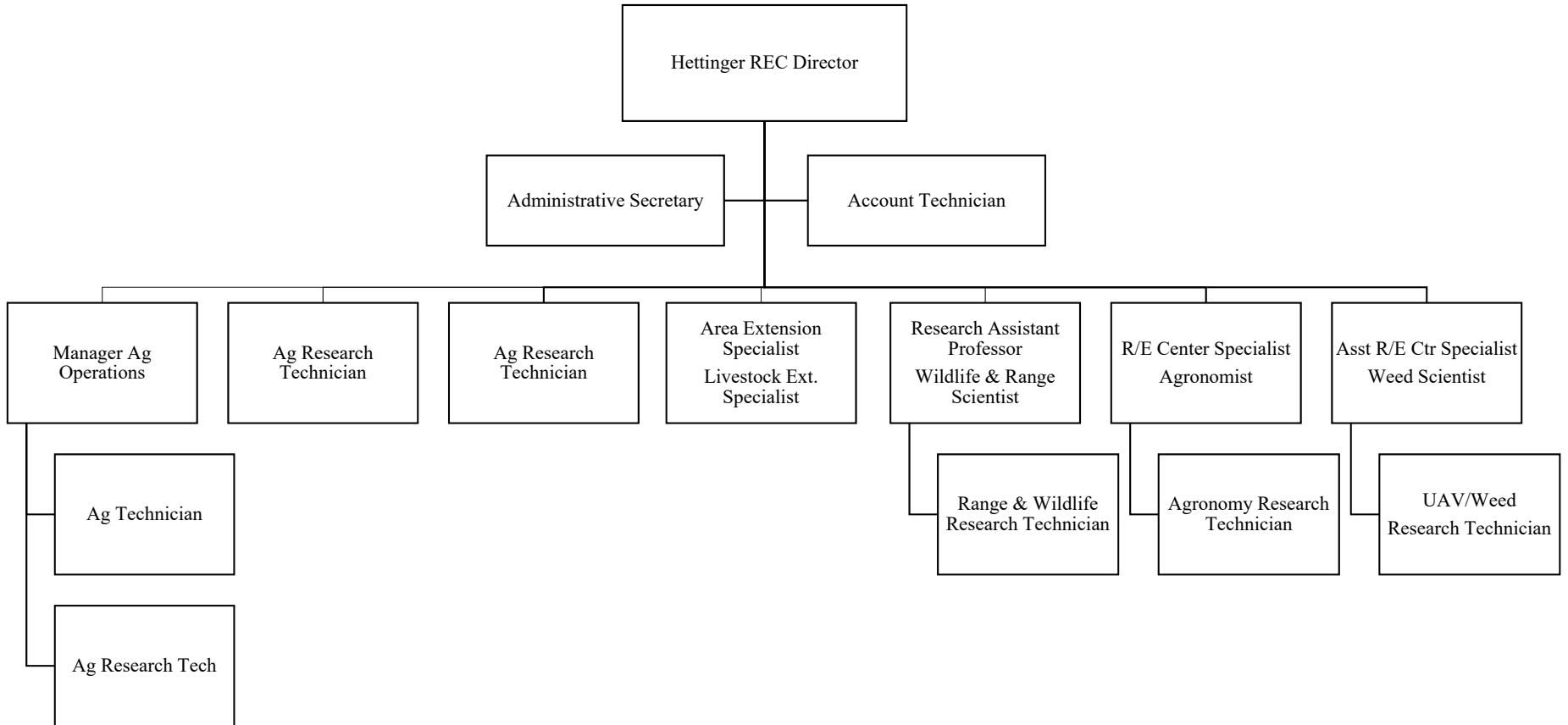
2023 NDSU Carrington REC Organizational Chart



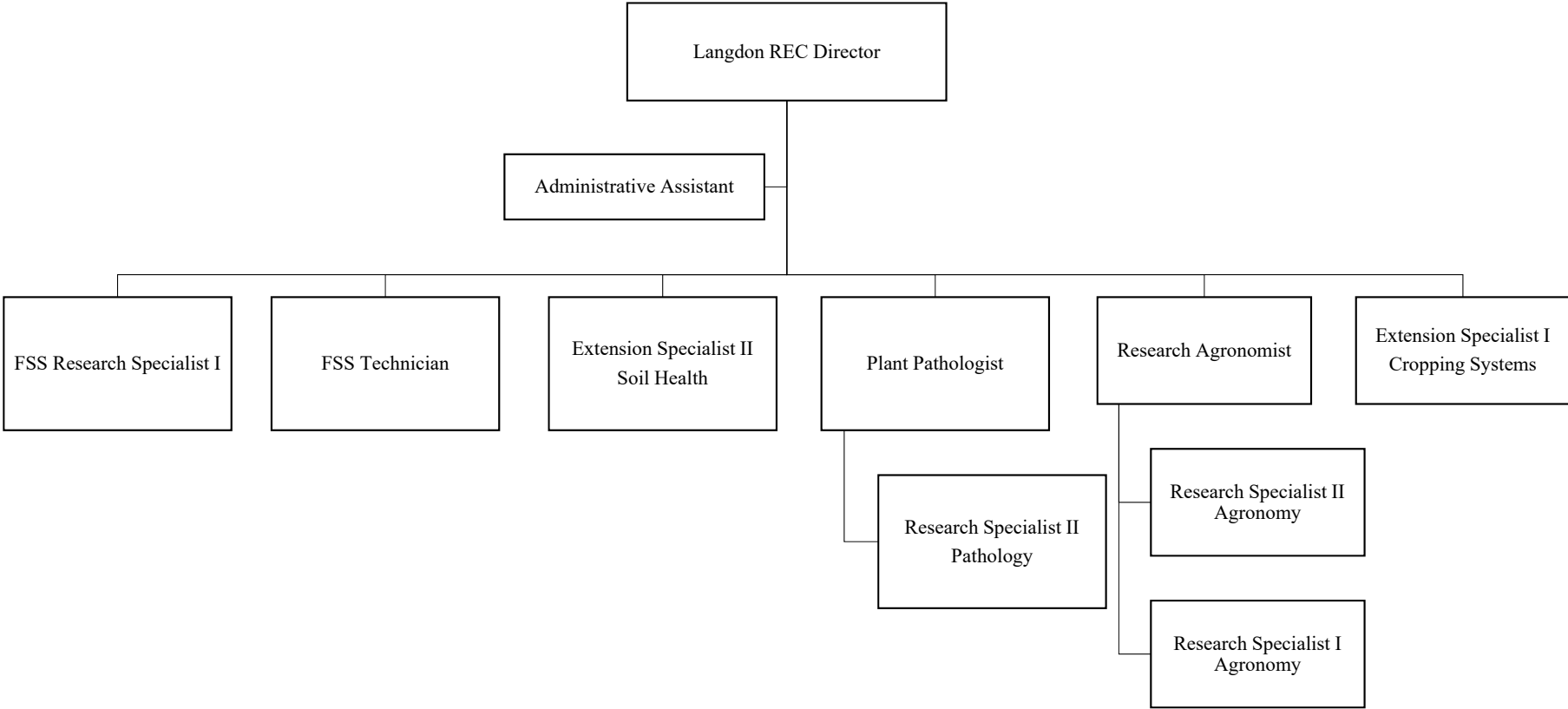
2023 NDSU Dickinson REC Organizational Chart



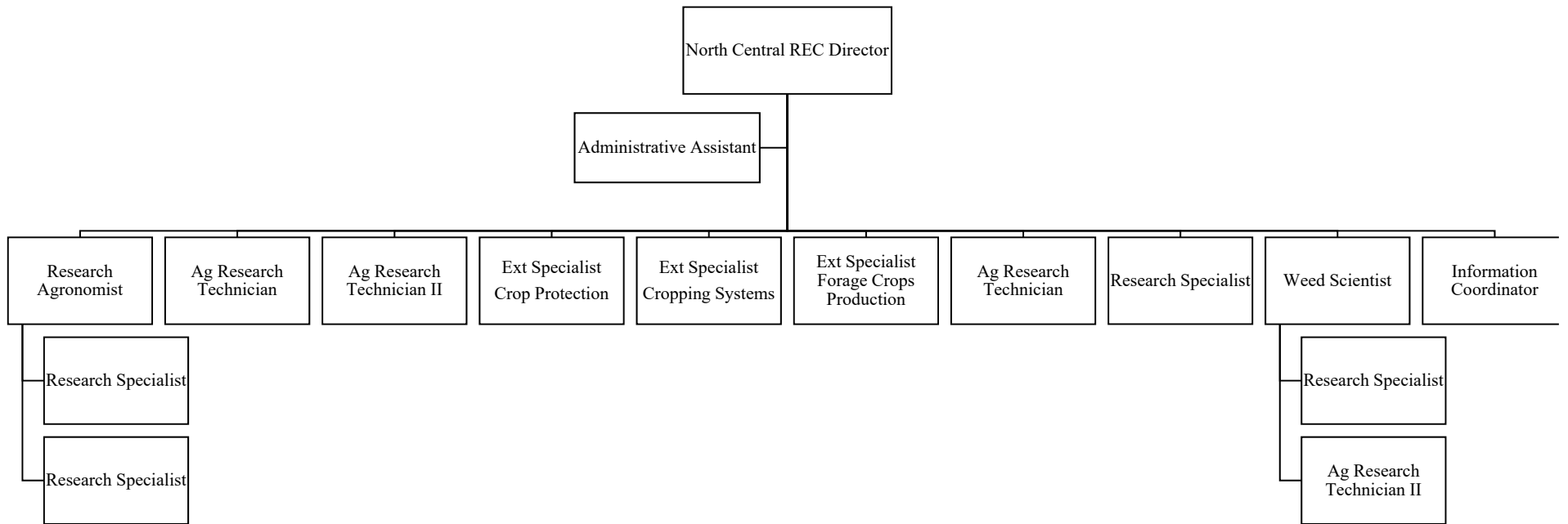
2023 NDSU Hettinger REC Organizational Chart



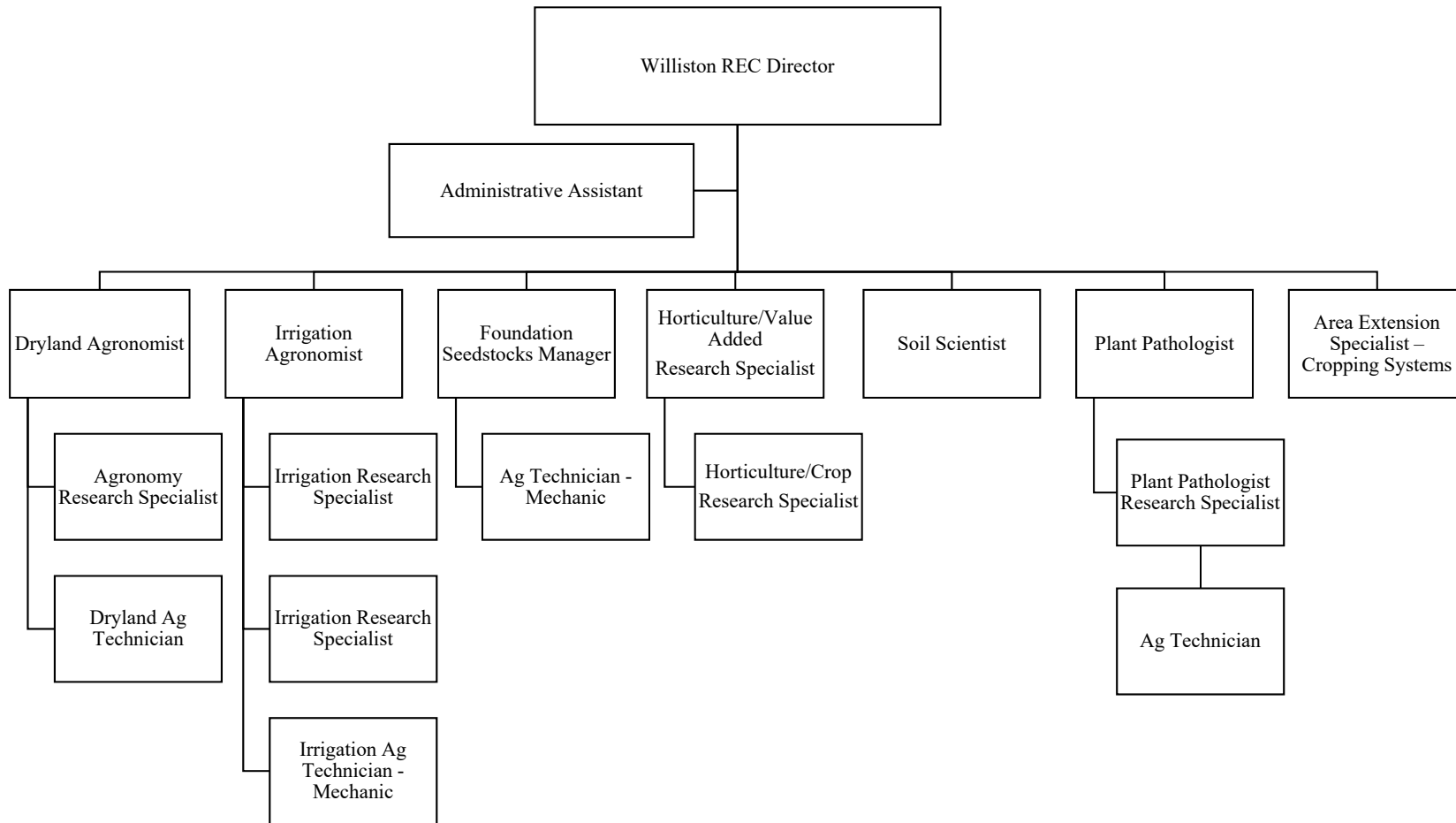
2023 NDSU Langdon REC Organizational Chart



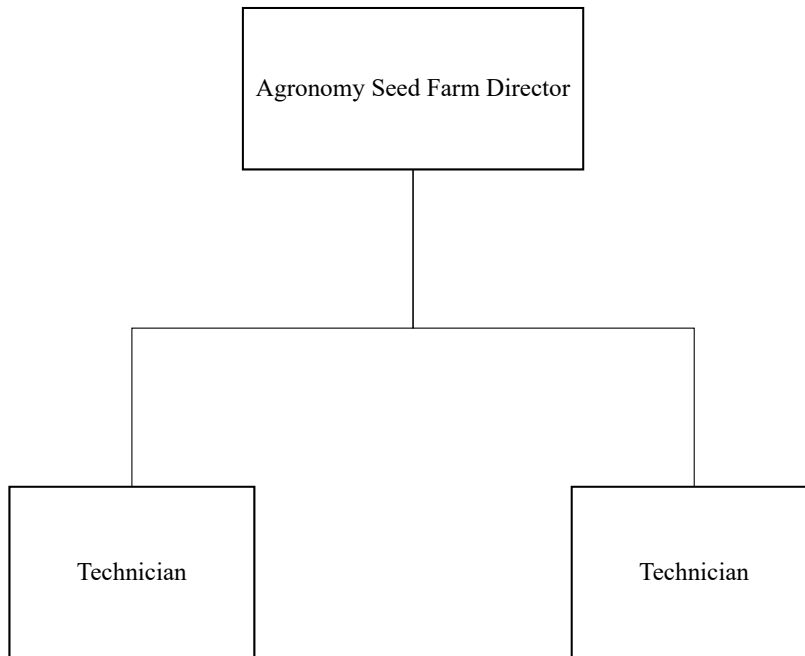
2023 NDSU North Central REC Organizational Chart



2023 NDSU Williston REC Organizational Chart



2023 NDSU Agronomy Seed Farm Organizational Chart



North Dakota Agricultural Experiment Station

NDSU Extension

2023-2025 Biennial Budget Request

House Bill 1020
Senate Appropriations Committee
Senator Brad Bekkedahl, Chairman
March 2, 2023





HB 1020
Senate Appropriations Committee
Chairman Brad Bekkedahl
March 1, 2023

Chairman Bekkedahl and members of the Committee, my name is Amanda Remyse, and I am writing to you on behalf of the the North Dakota Motor Carriers Association (NDMCA), **in support** of HB 1020. The Upper Great Plains Transportation Institute is an important partner that provides valuable information regarding smart and efficient approaches to infrastructure that is critical to the trucking industry.

Reliable transportation networks expand markets by allowing North Dakota businesses to sell products across the state, to other states, and internationally. North Dakota has the nation’s most freight-dependent economy. Comprehensive approaches to infrastructure is important the economic success of North Dakota.

NDMCA thanks the Committee for your consideration and urges a **do pass** recommendation.



GREATER NORTH DAKOTA CHAMBER
HB 1020
Senate Appropriations Committee
Chairman Brad Bekkedahl
March 1, 2023

Mr. Chairman and members of the Committee, my name is Andrea Pfennig with the Greater North Dakota Chamber. GNDC is North Dakota's largest statewide business advocacy organization, with membership represented by small and large businesses, local chambers, and trade and industry associations across the state. We stand in **support** of House Bill 1020 as it relates to the Upper Great Plains Transportation Institute.

Transportation is critical to our members as a means of getting goods to market. Our members support resources to ensure the maintenance of existing and future infrastructure needs are met, using comprehensive planning when appropriate. Upper Great Plains Transportation Institute is an important partner that provides information regarding smart approaches to infrastructure.

We urge you to support the Upper Great Plains Transportation Institute in HB 1020.

In Support Of
House Bill 1020
Senate Appropriations Committee
Monte Peterson, North Dakota Soybean Growers Association

Chairman Bekkedal and members of the committee, my name is Monte Peterson and I wish to express my support for H.B. 1020. My wife and I have a farm south of Valley City in Barnes County where we grow Soybeans, Corn and Wheat.

For committee members, who may not be familiar with me, along with farming the last 42 years, I have volunteered time back to my fellow soybean growers during the last 15 plus years to promote the state's soybean industry. First, I served as a director and Chairman of the North Dakota Soybean Council for seven years and as its Research Chair for a couple of years within that time.

I am currently serving as a director for the North Dakota Soybean Growers Association and the American Soybean Association, both advocacy organizations. I am also the immediate Past Chair of the U.S. Soybean Export Council which is tasked with building a preference for U.S. soy worldwide.

I wanted to preface my testimony with that so that you may better understand my perspective about Agricultural Research.

Going back 35 years ago when I planted my first soybean field, it was nothing more than an experiment. As I became more familiar with the state's soybean industry some 15 years ago, you could say it was still just beginning to blossom. Today we know, the state's soy industry has changed dramatically.

Without the research that has been invested at NDSU by the state and by the Soybean Council, we would never be where we are today. The need for that continued research is stronger today than it was in the beginning. Without the continued unbiased, science-based information we receive through extension, we could not continue to make the strides that we have. Sure, private industry can and will offer choices, but it is land grant driven research that ground truths those options.

Whenever a crop is introduced into a new area, it needs the help of a plant breeding program that can identify a best cultivar and variety potential for the area in which it is grown. Whenever a new crop becomes established in a new area, it needs help from an initiative that will specialize in finding answers to the ever-evolving pathogens and diseases that are affecting our crops.

Just over my time with the industry, we have witnessed an increase of soybean planted acres from roughly 2 million acres to as high as 7 million acres in 2021. What started out as a crop that was planted in just a couple of counties in the southeast part of the state has grown statewide. I believe every county in the state has reported planted acres of soybean at some point. That would not have happened without the investment in research and extension that has been made.

I like to remember how commodity groups also leverage their dollars with these public funds to create an even bigger bang for the buck and remember how the value-added industry has now committed to building here in North Dakota. This investment pays dividends.

Production agriculture across the U.S. and here in North Dakota is changing rapidly and how quickly we build on using precision agriculture and big data and utilizing the climate smart resources we have available to us to become more sustainable is imperative. Our customers are depending on us to become more ecologically sustainable. We need research to help us with this equation.

To do all this we need qualified people, and those people will need to be fairly and equitably compensated. Those on board now and those that are additionally needed must have the necessary laboratory and facilities to get the job done. I encourage the continued investment into North Dakota research and extension and your support for this bill.

Testimony of Jim Pellman, Vice-Chair, North Dakota Wheat Commission

HB 1020

March 2, 2023

Good afternoon Mr. Chairman and members of the Senate Appropriations Committee. For the record, my name is Jim Pellman, I am Vice-Chair of the North Dakota Wheat Commission. My family farms near McClusky, North Dakota.

The Wheat Commission has a long-standing, leveraged, and very productive research partnership with North Dakota State University's Agricultural Experiment Station. The Wheat Commission strongly supports House Bill 1020 and the priorities of the State Board of Agricultural Research and Education (SBARE). HB1020 includes critical funding for the NDSU Experiment Station, NDSU Extension, and additional partner entities, all of which are extremely important to North Dakota's Agricultural Research, Infrastructure, Time-proven Market Development Programs, and Success of our Dedicated Producers.

Research and Extension programs are the lifeblood of innovation and advancement of new technologies critical to the continued, demonstrated successes of North Dakota agriculture; and are a high priority for the Wheat Commission and the producers of North Dakota.

1—New Technologies/Driving Innovation: Advancements in Technology are quickly adopted statewide by our innovative producers, dramatically increasing Total Productivity, Consistency and Value in North Dakota's number one industry and chief revenue generator.

2—ROI: Agricultural Research in North Dakota generates a Return on Investment (ROI) of 25 to 1 for every dollar invested.

3—Economic Stability/Resiliency: Over the past decade Average Annual (Farm Gate) Value of North Dakota's Total Agricultural Output (Simply Price X Production) is estimated at nearly \$10 Billion. In the 2022-23 production and marketing year this value is anticipated to approach \$12 Billion. North Dakota Agriculture is currently performing at Higher Levels and with Greater Consistency than perhaps ever before.

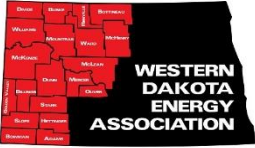
4—Welcome Diversification/Broader Enterprise Base: Today, Four Main Pillars, Wheat, Soybeans, Corn, and Livestock, account for 80 percent of total value. High value specialty crops such as sugar beets, potatoes, barley, sunflower, canola, dry beans, peas, lentils, flax, and hay crops, make up the remaining 20 percent. Increasingly diversified crop and enterprise choices add Flexibility and Resiliency. Producers are becoming better equipped to take advantage of additional market opportunities, or adjust cropping and management strategies when challenging conditions occur.

5—Positive Identity/Market Access: HB1020 provides opportunity to further advance upward trajectories in Yields, Output, and Unequaled Global Reputation for Quality, Product Performance and Customer Satisfaction; ultimately unlocking additional access, fostering durable demand, and continued repeat business in High Value Domestic and Export Markets worldwide. Our wheat producers have actively developed long term customer relationships in more than 60 countries and are experiencing enviable market growth, particularly in South Asia.

6—Great Reputation/Terrific Legacy/Expansion Welcome: North Dakota Agriculture has a well recognized and enviable Global Reputation as a Reliable, Consistent Supplier of High Quality, High Value Products. This is Certainly a Great Platform Moving Forward.

The North Dakota Wheat Commission would like to thank you for your past and ongoing support for North Dakota Agriculture, and for this opportunity to share a few supportive thoughts regarding these important programs.

If you have questions I will certainly try to answer them.



WESTERN DAKOTA ENERGY ASSOCIATION

March 2, 2023

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Counties

David Montgomery
Williams County

Craig Pelton
Dunn County

John Phillips
Coal Conversion
Counties

Testimony of:
Geoff Simon, Lobbyist #144
in support of HB 1020 – Budgets of UGPTI and NDAWN
Senate Appropriations Committee

Chairman Bekkedahl and Committee members:

On behalf of the city, county and school district members of the Western Dakota Energy Association (WDEA), we wish to express our strong support for the appropriations requests of the Upper Great Plains Transportation Institute (UGPTI) and the North Dakota Agricultural Weather Network (NDAWN) found in House Bill 1020.

WDEA has a longstanding working relationship with UGPTI’s Local Technical Assistance Program (LTAP), and the training and education it provides to our members. Counties in western North Dakota receive tremendous benefit from the Geographic Roadway Inventory Tool, as well as the information found in UGPTI’s local road and bridge needs study. UGPTI and NDAWN have also been active partners in WDEA’s development of the Wise Roads project (www.wiseroadsnd.com), which is aimed at minimizing weather-related disruptions to heavy oilfield truck traffic.

LTAP staff have worked closely with county road superintendents to maximize the value of data collected through the Wise Roads network of weather stations. We’re engaged with LTAP in a research project which involves placing moisture and temperature sensors in gravel roads to better determine when frost or load restrictions need to be placed on roads and when those restrictions can be lifted. NDAWN has provided the technical expertise to help WDEA launch the Wise Roads project, and continues to work closely with us to maximize the value of the huge volume of weather data we collect. To date, with NDAWN’s assistance, the project has installed 48 additional weather stations in western North Dakota.

Both UGPTI and NDAWN are delivering valuable services to our agriculture and energy sectors, and are also engaged in cutting-edge research, aimed at supporting the state’s major industries through innovation and development of better management tools to improve productivity and move commerce more efficiently. UGPTI’s addition of a western liaison position, in cooperation with the ND Department of Transportation, has brought additional benefits to county, township and tribal governments in western North Dakota.

As always, we appreciate the opportunity to offer testimony and would be happy to provide additional details upon request.

Thank you for your consideration.



Senate Appropriations – HB 1020

Pete Hanebutt, NDFB Public Policy Director

Meghan Estenson, NDFB Legislative Counsel

March 2, 2023

North Dakota Farm Bureau supports HB 1020.

Agriculture is the main pillar of the economic system in the North Dakota and Ag extension research at NDSU is a part of the future of our agriculture economy.

NDFB has many policies in support of North Dakota State University Extension Service, Northern Crops Institute, Upper Great Plain Transportation Institute, Main Research Center, Branch Research Centers, and Agronomy Seed Farm.

For these reasons, NDFB supports the funding and missions of NDSU.

Fargo

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Bismarck

4900 Ottawa St. | PO Box 2793, Bismarck, ND 58502-2793

Phone: 701-224-0330 | 1-800-932-8869

D & S Buckmier Farm

Donnie and Stephanie Buckmier
5728 Hwy 19
Maddock, ND 58348
Cell (701) 739-9568
E-Mail: buckmierfarm@gmail.com

February 28, 2023

Senate Appropriations Committee
HB1020

My name is Donald Buckmier and I am a small grains and row crop farmer from the Minnewaukan/Maddock area. I have been on the advisory board at the Carrington Research Center for two years. Even before I was a board member, I used the information from the research centers to help me make decisions for my farm. Some of those decisions include variety trials such as what variety works best in what soil at what population. There is no other resource that would tell me what works best in my soil in my area. This also includes crop nutrition, nitrogen stabilizers, biologicals, farming practices (such as no till, conventional till, strip till) and crop rotation. I have worked extensively with the research centers trying to fix unproductive land due to soil salinity. The list is lengthy of all the benefits provided to us from the research centers. This information is available to all farmers either through the research center's CREC Annual Research Report or Ag Hub. I find the annual publication and Ag Hub website both extremely beneficial resources. Every year I look forward to the book coming out so I can find out the results of the prior year's research.

The House Appropriations version of this bill is quite favorable in support of the mentioned benefits to all producers in this state. I encourage the Senate Appropriations Committee to support bill HB 1020 as it is a valuable resource to all agriculture producers in North Dakota. I also look forward to hearing about continued support for the Oakes Irrigation Research site and the capital projects included in HB1020.

Thank you for your time and consideration regarding this bill.

Regards,

Donald Buckmier



North Dakota Farm Credit Council

AgCountry Farm Credit Services

Farm Credit Services of Mandan

**Testimony of Dana Bohn
North Dakota Farm Credit Council Executive Director
HB 1020
March 2, 2023**

Chairman Bekkedahl and members of the Senate Appropriations Committee, my name is Dana Bohn and on behalf of the North Dakota Farm Credit Council (NDFCC), I'd like to express our support for HB 1020.

NDFCC is comprised of two farmer/rancher-owned independent Farm Credit associations that provide credit and financial services to farmers, ranchers and agribusinesses of all sizes and income ranges in every county in North Dakota. North Dakota Farm Credit cooperatives provide about \$12.7 billion in loans to farmers, ranchers and agribusinesses and provide financial services to approximately 28,000 customers.

NDFCC supports the funding of the 2023-2025 SBARE priorities for the NDSU Extension and the North Dakota Agricultural Experiment Station. Ag research and extension continue to be one of the top priorities for North Dakota's farmers and ranchers in making decisions that lead to the highest quality product most economically produced.

We would particularly like to stress the importance of the capital improvement request of the field lab facility. This facility would address the modernization needs of Waldron Hall, Widakas laboratory, the potato research laboratory, and the horticulture laboratory.

In closing, NDFCC encourages your support of HB 1020.

Independently owned and operated associations serving North Dakota.

AgCountry FCS

1900 44th Street South, Fargo, ND 58108
701-282-9494 • 800-450-8933
www.agcountry.com

FCS of Mandan

1600 Old Red Trail, Mandan, ND 58554
701-663-6487 • 800-660-6487
www.farmcreditmandan.com

**North Dakota Stockmen's Association
Testimony to the
Senate Appropriations Committee on HB 1020
March 2, 2023**

Good morning, Mr. Chairman and Senate Appropriations Committee members. For the record, my name is Julie Ellingson and I represent the North Dakota Stockmen's Association, a 93-year-old beef cattle trade organization comprised of more than 3,100 cattle-ranching families from across the state.

We join with our agricultural colleagues in enthusiastic support of HB 1020. It represents critically important programs and projects that were prioritized by the State Board of Agricultural Research and Education through its comprehensive process. Agriculture is our state's economic engine, and these research and Extension efforts help keep our industry and our state strong, and we appreciate all your past support.

We recognize the major tasks you have ahead of you as you prioritize needs and allocate funds for the next biennium. As you weigh those important decisions, we urge you to keep in mind the state's return-on-investment when you invest in ag research and Extension endeavors. This budget can help bolster the state's primary economic driver; leverage matching dollars from industry and private investors; and generate more tax dollars that will result from agriculture's prosperity.

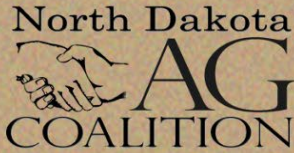
The package before you has value from top to bottom. There are three elements I want to specifically call out:

First, from a cattle rancher's vantage point, the cropping systems initiative and its weed control focus are of particular interest. Not only are herbicide-resistant weed populations expanding, but newcomers like the dreaded Palmer Amaranth threaten our landscape and we want to get ahead of them to protect our crop, hay and rangelands and preserve their productivity.

Second, the no. 2 livestock development initiative is also one of timely significance. It not only dovetails nicely with the work our organization has been doing the past 21 years to site and support new and expanding cattle feeding operations in North Dakota, but it can help producers take advantage of existing and new value-added processing facilities in our state, including the three upcoming soybean crushing plants. Livestock development, as you know, has been an important topic of discussion this legislative session and this initiative will augment other work being done in the policy arena.

Third, in order to have a robust agricultural industry, you need robust agricultural workers, and the farm and ranch safety and health initiative will help ensure that our hands-down no. 1 ag commodity – our farmers, ranchers and agribusiness people – have the necessary resources to thrive and do their work providing food and fiber for the world.

Thank you for your consideration of these priorities and for all the support you have provided to help keep agriculture strong. I would be happy to take any questions you might have.



PO Box 2599
Bismarck, ND 58502
701-355-4458
701-223-4645 (fax)

**Testimony of Darrell Oswald
North Dakota Ag Coalition
HB 1020
March 2, 2023**

Chairman Bekkedahl and members of the committee, my name is Darrell Oswald, and I am here today as the Chairman of the North Dakota Ag Coalition. The Ag Coalition has provided a unified voice for North Dakota agricultural interests for more than 40 years. Today, we represent more than 45 statewide organizations and associations that represent specific commodities or have a direct interest in agriculture. Through the Ag Coalition, our members seek to enhance North Dakota's agriculture industry.

The Ag Coalition takes a position on a limited number of issues, brought to us by our members, that have significant impact on North Dakota's agriculture industry. The Ag Coalition supports the funding of the 2023-2025 SBARE priorities for the NDSU Extension and North Dakota Agricultural Experiment Station. Ag research and extension continue to be one of the top priorities for North Dakota's ag producers to assist in decisions leading to the production of the highest quality product that is most economically feasible.

The ND Ag Coalition is a very diverse group that addresses all areas of agriculture that depend on NDSU research and extension. Producers around the state rely on the work of NDSU research and extension to mitigate struggles and to problem solve issues facing rural North Dakota. We would like to stress the need that was addressed as a critical priority of SBARE and the Governor to build attractive compensation packages for the recruitment and retention of employees. We would also like to highlight the capital improvement request of the Field Lab Facility to address the modernization needs of several of the research facilities.

We appreciate your past support and urge your continued support of research and extension as these programs provide valuable information, education and tools for the state's producers. They have been, and will continue to be, the driving force in the future of North Dakota's number one industry, which contributes \$30.8 billion to North Dakota's economy annually. We encourage your support of HB 1020.



U.S. Durum Growers Association

PROMOTING THE PRODUCTION AND MARKETING OF DURUM AND SEMOLINA

P.O. Box 1091 • Bismarck, ND 58502 • (701) 214-3203
 office@durumgrowers.com • www.durumgrowers.com

**Testimony of Steve Perdue
 Policy Committee Chair
 HB 1020
 March 2, 2023**

Chairman Bekkedahl and members of the Senate Appropriations Committee, my name is Steve Perdue, and I am a farmer from Ray and serve as the policy committee chair for the U.S. Durum Growers Association (USDGA). On behalf of USDGA, I would like to express support of HB 1020 as we recognize the significant importance of ag research, extension and the Northern Crops Institute to the future of agriculture in North Dakota.

USDGA has represented the nation's durum growers for more than 60 years. Today, we represent grower and industry members from 10 states, with North Dakota producing 50-60 percent of the nation's durum.

USDGA supports the efforts of the State Board of Agriculture Research and Education (SBARE) in prioritizing the research and education needs of the state's ag community. USDGA participated in the SBARE information gathering process, as did dozens of other ag organizations, and would urge the Division's favorable consideration of its priorities.

Specifically, USDGA cannot overstate the importance of the capital improvement request of the field lab facility. This facility would address the modernization needs of Waldron Hall, Widakas laboratory, the potato research laboratory, and the horticulture laboratory. The Field Lab Facility would house the durum breeding program as well as other programs that affect durum production. Updating these facilities is critical to the future of the durum industry in North Dakota. With North Dakota producing more than half of the nation's durum, NDSU's durum breeding program and research of plant disease and insect pests is top priority to the association. The durum breeding program is known around the nation, if not the world.

We also encourage your continued support of the Northern Crops Institute (NCI). NCI's collaborative efforts to support the promotion and market development of crops grown in a four-state region is more important than ever. NCI's educational and technical programs are essential to not only maintaining, but expanding, domestic and international markets for northern-grown crops, including durum.

Agriculture is and will continue to be the foundation of our state's economy. Even in times of low commodity prices, our families will continue to be here buying groceries, patronizing local businesses and contributing to the state's economy. We appreciate your past support and urge your continued support of ag research and extension.



North Dakota Irrigation Association

P.O. Box 2254
Bismarck, ND 58502
701-223-4615
701-223-4645 (fax)

Dedicated to strengthening and expanding irrigation to build and diversify our economy

**Senate Appropriations Committee
House Bill 1020
Testimony of Steve Hansen, Chairman of North Dakota Irrigation Association
March 2, 2023**

Chairman Bekkedahl and Members of the Senate Appropriations Committee:

North Dakota irrigators support the agricultural research and education efforts of North Dakota State University and we encourage the legislature to continue the investments in this important role.

North Dakota irrigates about 300,000 acres to produce a variety of crops including corn and cereal grain crops, livestock forage, and high value crops such as potatoes, sugar beets, and onions. Irrigation provides strong economic return, with an acre of irrigated land producing four times that of dryland in regular conditions and as much as six times in times of drought.

Irrigation provides the opportunity to grow higher value crops where top yields and exceptional quality are necessary. High quality coupled with substantial yielding potatoes have made the French fry industry, located in Grand Forks and Jamestown, successful in the state. The acreage of onions in the state is smaller than the other crops, but this crop may have an important role in the future as markets are developed. Other fruit and vegetable crops can be produced and processed in the state and the development of the markets for these crops is needed. Irrigation does and can diversify and strengthen the agricultural economy of the state. We urge the dedication of additional resources to research the opportunities for high value crops.

Irrigation also provides producers and agricultural processors dependability despite weather conditions. The drought in 2021 heightened awareness of the need for additional irrigation to support the growing value-added agriculture processing in the state. The Association is proud to partner with other commodity organizations in the state to expand awareness of the benefits of irrigation and brainstorm ways to reduce barriers to irrigation development.

North Dakota has a substantial potential of increasing irrigation. For example, approximately 300,000 acres in the Missouri River corridor have the water and soils suitable for irrigation. The Missouri River is our most bountiful water resource and irrigation is an ideal way to put that water to use.

A key part of irrigation development is continued research on irrigation practices and irrigated crops. The State Board of Agricultural Research and Education priorities include a request for capital project improvements for the Nesson Valley Irrigation site. The researchers need office and lab space, a heated shop, and a conference room. This facility would support ongoing educational efforts for irrigators as well as meetings to support expansion of irrigation in western North Dakota.

Thank you for your past support of irrigation research. Please support the SBARE priorities for the 2023-2025 biennium.



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North Dakota Nursery, Greenhouse and Landscape Association

PO Box 1064, Fargo, ND 58107-1064 701-886-7673

March 2, 2023

Dear Senators of the Appropriations Committee,

RE: HB 1020 NDSU Ag Field Lab

On behalf of the over 200 members of the North Dakota Nursery, Greenhouse & Landscape Association, I urge you to support HB1020 to support NDSU Field Lab, which will replace the greenhouses that will be demolished in the next 4 years.

NDSU's Horticulture Program needs the new Field Lab to support the woody plant improvement research. Horticulture students also need real-life experiences growing plants. Our members utilize NDSU Horticulture students as interns and employees. The more field lab experience students have, the better employees they are.

Just this morning I received a request regarding near-retiring greenhouse owner from western ND seeking horticulture students who may wish to take over the business in a small town. A new Ag Field Lab is critical to providing that crucial training needed for NDSU students.

Over the years, there have been NDSU tomato and vegetable varieties released that are great for our state – Cannonball, Lark, and Sheyenne tomatoes, Gold Nugget Squash, and Mantador Broccoli come to mind. Thus far, NDSU has released 60 tree and shrub varieties that are all hardy and adapted for our state. This is so important because other companies and universities do research but often their releases are not tough enough to handle our cold, pH, and wind. Their plants are geared toward larger population areas to increase their sale

As you know, the ND State Board of Agricultural Research and Education (SBARE) ranked SDSU Field Lab as their #1 priority, with many of our members testified or submitted supportive comments. Please support HB1020 for NDSU Field Lab.

Gloria Vande Brake
 Executive Director

**House Bill No. 1020****Senate Appropriations**

Roughrider | March 02, 2023, 3 p.m.

Scott D. Zainhofsky, Planning/Asset Management

Division Engineer

Mr. Chairman and members of the committee. For the record, I'm Scott Zainhofsky, Planning/Asset Management Division Engineer for the North Dakota Department of Transportation (NDDOT). This submitted testimony is in support of the Upper Great Plains Transportation Institute's (UGPTI) section of House Bill 1020.

The NDDOT utilizes the expertise of UGPTI to assist in conducting research and special studies in areas such as traffic modeling, preparing needs analyses, determining economic impacts, and providing analysis on various transportation related topics. Additionally, using actual NDDOT design projects, UGPTI trains future transportation engineers with real-world experience for NDDOT, our local government partners, and the private sector alike. The services UGPTI provides are invaluable to the state's transportation system and its users.

Mr. Chairman, that concludes my submitted testimony.



Advocating for North Dakota's Integrated Infrastructure Network

March 2, 2023

Testimony in SUPPORT of House Bill 1020 – Upper Great Plains Transportation Institute

Chairman Bekkedahl and Members of the Committee:

I'm Scott Meske, representing the North Dakota Transportation Coalition and offer our support for continued funding of the Upper Great Plains Transportation Institute to continue the valuable work they do on behalf of the integrated transportation network across North Dakota.

The North Dakota Transportation Coalition consists of the largest twenty statewide and regional trade associations, agriculture groups, political subdivisions and business entities in the State – all of whom have a vested interest in moving goods, services and people as efficiently and safely as possible. Our purpose is to advance and enhance North Dakota's transportation infrastructure through advocacy and education efforts resulting in sustainable funding and sound public policy solutions.

The Upper Great Plains Transportation Institute plays a key role in these efforts on several levels. Over the next 20 years, the Institute estimates more than \$24 billion will be required to maintain our current system of roads and bridges, with an estimated \$10 billion in state revenues realized in the same timeframe. Working with political subdivisions and industry stakeholders, the Institute can harvest key data points that help guide those funds where they are needed most. They are truly a vital component to the overall transportation infrastructure network, conducting crucial research services to the State DOT and stakeholders, like the North Dakota Transportation Coalition Members, who rely on our road and bridge network to keep our economy thriving.

The NDTC urges this Committee to continue their support of the Upper Great Plains Transportation Institute by concurring with the House, and approving their budget request in House Bill 1020.

Thank you

North Dakota Transportation Coalition Legislative Priorities



Primary Priorities

Funding:



Prioritize the political subdivision infrastructure fund (OPD) bucket over the Strategic Investment and Improvement Fund bucket in the oil and gas tax distribution formula, to ensure long-term and consistent funding from this revenue source.

Support utilizing a portion of the Legacy Fund earnings for transportation infrastructure in one-time projects.



Support the Infrastructure Revolving Loan Fund.

Generally, support appropriating general fund dollars to match federal funds when needed.



Ensure NDDOT has the administrative capacity to apply for and manage federal funds, including discretionary funds contained within the Infrastructure Investment and Jobs Act.

Regulatory Environment:



Where appropriate, ease burdensome regulations to ensure fair and balanced oversight and permitting.

Secondary Priorities



Continued support for UGPTI.

Support the utilization of Motor Vehicle Excise Tax revenues for transportation infrastructure projects.



HB1020**The Senate Appropriations Committee****3/2/2023****Sarah Hall Lovas, SBARE Chair**

Chairman Bekkedahl and members of The Senate Appropriations Committee. My name is Sarah Hall Lovas and I am an agronomist from Hillsboro, ND. I currently serve as the Chair of State Board of Agricultural Research and Education (SBARE). Thank you for this opportunity to come before you today and share with you some information about the North Dakota Agricultural Research Station (NDAES), NDSU Extension (Extension), and SBARE. Thank you for your previous support for the NDAES and Extension.

The State Board of Agriculture Research (SBAR) was established by legislative decree in 1997. It was responsible for the budgeting and policy making associated with the supervision of the North Dakota Agricultural Experiment Station. The law was amended in 1999 to include responsibility for the North Dakota State University Extension Service and the name was changed to the State Board of Agricultural Research and Education (SBARE).

SBARE within the policies of the State Board of Higher Education, is responsible for the budgeting and policy making associated with the NDAES and Extension. Our role applies equally to both. I won't go through all the duties of SBARE, but they can be found in North Dakota Century Code and are also outlined on page 1 in your budget book. As required by the ND Century Code, SBARE develops the biennial budget report by receiving grassroots

information from individual producers, commodity groups, organizations, extension leaders, researchers, and agribusinesses across the state.

This past biennium, SBARE started receiving stakeholder input on November 2, 2021, and stakeholder input was concluded on January 5th, 2022. Stakeholder input was received via two in-person, oral input sessions with locations in Dickinson and Fargo, by mail submission, and electronic submission. We received input from across North Dakota and many diverse groups were represented. We heard about many diverse needs for North Dakota's Agriculture and the people of North Dakota. After stakeholder input was received, we began the prioritization process to rank programmatic initiatives based on the input we received. The Extension and NDAES programmatic priority lists, and the NDAES Capital Improvement list are in your budget book. Dr. Greg Lardy will follow me and go over our priorities in more detail. However, I do want to make this committee aware of two significant conversations that SBARE had during our prioritization process: 1) The need for a Field Lab Facility (Waldron Hall Replacement); 2) The need to enhance North Dakota state employee compensation.

Chairman Bekkedahl and Committee Members, the agriculture industry has a significant contribution to North Dakota's economy. Dean Bangsund and Nancy Hodur recently completed research to determine the contribution of North Dakota's Agriculture industry to North Dakota's economy. On December 5th in Bismarck, Governor Burgum hosted a press conference about the results of this research. Many elected leaders and others were also in attendance. The research results are astounding! Agriculture has a \$30.8 billion dollar contribution to North Dakota's economy! Agriculture accounts for about 19% of all North Dakota's employment and 20% of all labor income. If you have a dollar in your pocket, twenty cents of that dollar would be attributed

to North Dakota's agriculture industry. At the same time, agriculture research has an ROI of 25%. This is a very good return on investment. Simply put, there is no better investment for a dollar than into agriculture research and this investment improves a major economic driver for North Dakota's economy.

Those are the impacts in dollars and cents. However, there is more to this story than just the dollars and cents. Extension and NDAES is present every day in North Dakota agriculture and the daily lives of North Dakotan's! The basis for my agronomic recommendations for North Dakota producers is derived from the NDAES and Extension. My experience as a youth in 4-H taught me the leadership skills I needed to participate in many boards, including SBARE. The NDAES and Extension touches North Dakota Lives in so many ways. Examples include specialty crop plant breeding programs; the Rural Leadership North Dakota, livestock information; drought management education for crop and livestock producers; soil health education programs. These are only a few examples I can name off the top of my head, but feel free to ask for more information regarding the impact of the NDAES and Extension on North Dakota.

Thank you for your time this afternoon. I would be happy to answer any questions you may have about SBARE, our priorities, or my involvement in agriculture.

Request: Please support the SBARE Priority list. Please support the Field Lab Facility request. Please support enhancing state employee compensation packages.

Senate Appropriations
Committee Testimony
Northern Crops Institute
Mark Jirik, Director
March 2, 2023

The Northern Crops Institute is a government agency, written into Century Code in 1981, whose mission is to grow markets for crops grown on the northern plains, and based on the campus of NDSU. Our founders and legislative leaders understood that crops and crop quality don't end at state borders.

Sometimes, it is hard to think about how much has changed in 40 years. 40 years ago, the primary mission of NCI was supporting the wheat and barley industry. Today, we continue our work in wheat and barley, but are actively engaged in promoting soybeans, corn, pulse crops – and the wide array of crops grown throughout this region for both food and feed uses.

There are three main areas that I would like to cover for you today, first is an overview of who we are and what value we bring to the state, second, I'd like to highlight some changes over the last biennium and since our strategy was rolled out four years ago, and finally a look at our challenges and opportunities over the next two years.

Our institute, and its strategy, is directed by the Northern Crops Council, a council made up primarily of farmer leaders, but also business leaders and the North Dakota Commissioner of Agriculture, General Manager of the North Dakota Mill and Elevator, and the President of NDSU or his designee.

Our staff at NCI is made up of a number of a wide range of people with experience in food and feed science, education, and industry experience.

NCI promotes use of crops grown in this region in a number of ways including short courses that are offered in person, hybrid, online, and on demand for international grain buyers. Hosting trade teams with our commodity group partners and speaking to international and domestic audiences highlighting the value of crops grown in this region. Hosting webinars hosting a wide range of topics from market updates to cereal grains to ethanol.

Most of our international buyers come to us through our partners at US Wheat Associates, US Grain Council, US Soy Export Council, and other international crop promotion partners. Their funding comes from both federal dollars, as well as state check off dollars with support from the state level commodity groups.

From a program standpoint, the last biennium continued to be one of change. Due to the pandemic, the first year continued to be predominated online programs, the second year that shifted to a combination of both online and in person.

The pandemic will forever change how NCI operates. The online courses will not go away. We've found it is a way to reach a different audience. Usually more junior employees at companies overseas, or from countries where travel to the US is especially difficult.

In 2021 we conducted our first value survey, looking at the value that our institute brings to the region as far as growth in exports and investment in the region. At that time, we looked at our in person courses in 2018 and 2019, which were all in person.

We just concluded our analysis for 2020 and 2021, where we were all on line courses, and we expected to see a drop off in results. Two years ago, 95% of our course attendees reported greater confidence in supply chains as a result of attending our courses – this year it was 87%. Two years ago 99% said they had a better understanding of crop quality as a result of our courses, this year it dropped to 97%. Two years ago, 51% reported increasing the volume purchased of US commodities as a result of our short courses – this year, it actually increased to 56%.

The NCI team did an excellent job of shifting how we conduct our courses – conducting online education is very different than conducting in person, how we engage, how we track, and how we present courses takes completely different processes. The team engaged with experts, learned through trial and error, and never gave up.

In addition to short courses, we also host a wide number of webinars, which are free and open to the public on a wide range of subjects. Our ongoing webinar series are “Market Update” which broadcast twice a month. Cereal Innovators, Future of Feeding, and Everything Ethanol, all happen once a month. In addition, we've worked with a number of partners on shorter term webinar series on specific topics for specific international geographies.

Our second handbook was released last year, “Ancient Grains of the Great Plains” and our third will be released in the coming weeks, “Guide to Wheat Quality.” With two more in the works. These are technical handbooks, designed for business and industry to learn how to better utilize crops from this region.

NCI also host our first two conferences in 2022. NCI's Ancient Grains Conference was in Elk River, MN at the historic Oliver Kelley Farm focused on building markets for ancient and specialty grains producers. Our “Next Five Years” conference was focused on helping the industry look at what are the major items to watch in our markets over the next five years.

In addition to these programs, we also conduct technical services for companies that are looking to use crops grown in the region for their products. In the last 5 years, we have dealt with about 150 entities – ranging from entrepreneurs, public entities and private businesses on over 400 projects. About 40% of them have investments in North Dakota – all of them were looking at increasing usage of crops grown in this region. These services range from testing, to milling, pasta production, snack food production or feed milling. These services are generally confidential in nature. But it is a way or putting our equipment to work for the state of North Dakota and the companies that use the commodities grown here.

From a technical service standpoint, we only surveyed those clients that were private companies working on projects in 2020-21, again, looking at the impact after the fact. On average, the overall investment in the region has increased 24%.

That gives you a little bit of background on who we are today, and what we've done, I'd like to take a look at how NCI has changed from the last biennium, and since the start of implementing our strategic plan.

In early 2019, the Northern Crops Council met in Mandan and discussed a new strategic direction for the Northern Crops Institute. The plan called for intensifying the focus on our overall mission and making sure we were true to all the priorities laid out in the North Dakota Century Code. It was a strategic plan that laid out a vision of growth allowing NCI to reach its full potential.

I am thankful to the Northern Crops Council for their vision and leadership in laying out this framework. And equal credit needs to go with the dedicate staff at NCI for carrying out the mission and living that strategy every day.

From prior to the strategic plan to today, NCI is conducting four times the number of short courses.

From prior to the strategic plan to today, NCI has doubled the number of clients that we work with in an average year.

From prior to the strategic plan to today, NCI is doing more than two times the number of projects.

Prior to the strategic plan, 75% of NCI's budget came from appropriations and 25% came from special funds, today that has reversed itself, with 25% of NCI's projected budget this year coming from appropriations and 75% from special funds.

Prior to the strategic plan, NCI had never conducted a webinar. In 2022, NCI hosted 57 webinars with over 2500 attendees.

Prior to the strategic plan, NCI had never conducted a conference, in 2022, NCI hosted two well attended and highly rated conferences.

Prior to the strategic plan, NCI had never released a handbook, today, there are two NCI handbooks available, one in final proofing, two being written, and another 12 titles that are in the early stages.

From the last biennium to this biennium, NCI is forecasted to double overall attendance at events.

From the last biennium to this biennium, NCI is forecasted to doubled technical service projects.

From the last biennium to this biennium, NCI is forecasted to almost double our special funds income.

Four years into our strategic plan, and NCI is well on track to achieving its strategic objectives. This biennium has been marked by some key challenges, especially the pandemic, and the NCI staff has done a tremendous job of not stumbling, but turning those challenges into stepping stones.

Finally, I'd like to look at some of the challenges and opportunities facing us in the coming biennium.

First: Livestock and feed market development. NCI has always been involved in helping develop feed markets worldwide. The majority of the crops we produce, or their byproducts, are used in the feed industry. We've been growing our activity over the last biennium in our work in growing markets for the feedstuffs produced in this region, and that activity is only expected to increase the coming year.

For the last thirty-three years, NCI has run the NCI feed center on the campus of NDSU. This facility makes feed for the NDSU farms, but also is used as a training center for international feed mills, trade teams, as well as for domestic market participants.

The feed center is also used for conducting quality studies and analysis, some on our own, some in conjunction with our university partners at NDSU and other land grants around the country. Today, we are working on five ongoing projects related to feedstuffs from the region.

The most publicized study is an ongoing study looking at the quality of US corn versus our competitors in Argentina, Brazil, and Ukraine. International buyers criticize US corn as breaking up easier and arriving in poorer shape than our competitors. What we've found is while our corn is different and it does break up easier – it is also less costly to mill, and thanks to our partners at SDSU and Auburn, appears to be more digestible and creates a better feed. Essentially turning something that overseas buyers would like to discount us for, into an asset.

There are an additional six projects being discussed that would be run through the feed mill.

The challenge is, the feed mill has a number of problems.

Our pellet mill was installed as a used piece of equipment, and is now approaching 70 years old. Parts are no longer being manufactured for it, and it is at risk of critical failure.

Our ingredient bins have major structural issues, and while they have been maintained and patched, there are no longer places to apply patches to, some of those bins will need to be taken out of service in the near future as they are in danger of critical failure. In addition, today we have four ingredient bins. When the mill was built in 1990, we didn't have the number of feedstuffs available in the region today and bulk storage for projects is a major issue.

Our warehouse was not designed for the number of projects that are ongoing – our corn study had us unload a fifteen-ton container of corn in 60lb bags – we had pallets of corn stored throughout the feed mill. As we increase the number of projects, there will be no place to effectively store any bagged or palleted material.

There is equipment that is on long term loan to us, that is in storage and needs to be taken up and set up as needed as there is no place to install in the current mill.

To access the state-of-the-art auditorium at the feed mill, our course participants and visitors need to enter the feed mill and take stairs open to the equipment and dust.

The auditorium is on the second floor of the feed mill, and is not handicap accessible.

There are not proper places to do hands on training and analysis. Today, we are using a converted storage room for serving meals and doing training not fit for the auditorium.

Finally, our parking lot is Red River clay – and any work or visitors in the spring or fall are discouraged by a muddy mess. Any trucks or containers risk having to be pulled or hoisted away from the mill.

The governor's budget recommended \$3.9 million in onetime funding from the Strategic Investment fund for feed mill upgrades. We would very much appreciate this funding.

Our second major challenge continues to be with staffing, we've struggled to fill open positions over the last biennium and remain competitive in the market place with our current staff. The state need to continue to have a good compensation plan, and we appreciate the Governor Burgum's recommendations on compensation plans.

Finally, our greatest opportunity over the next biennium will be successfully transitioning to our new home at the Peltier Complex. This investment by the state of North Dakota and our partners will provide the opportunity for NCI to continue to focus on growing markets and adding value for the northern plains.

While we have no request for additional appropriations beyond the normal funding and salary increases, I would like to point out that as we've moved our special funding from 25% to 75% of budget, it does get complicated as some of our grants having matching requirements and limit what they cover. For the last two biennium, we've said we would find the funding to grow outside of appropriated funding. In two year's time, we might reach the maximum of what we are capable of.

Thank you for your continued support of the Northern Crops Institute.



2023-2025 BIENNIAL BUDGET

NORTHERN CROPS INSTITUTE
Budget No. 638

Thursday, March 2, 2023
HB 1020

ND SENATE APPROPRIATIONS COMMITTEE

Senator Brad Bekkedahl, Chairman | Senate Appropriations Committee

NORTHERN CROPS INSTITUTE REPRESENTATION

Jim Bahm, Chairman | Northern Crops Council

David Cook, President | North Dakota State University

Greg Lardy, Vice President, Agricultural Affairs | North Dakota State University

Mark Jirik, Director | Northern Crops Institute

NORTHERN CROPS INSTITUTE

NDSU Dept. 7400, PO Box 6050 | Fargo, North Dakota 58108-6050

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AGENCY OVERVIEW

Agency Statutory Authority

North Dakota Century Code 4.1-15.

Major Statutory Responsibilities

The Northern Crops Institute shall provide technical and marketing assistance through specialized training courses and technical services that facilitate domestic and market development and expanded sales of northern grown crops. The institute shall render services including:

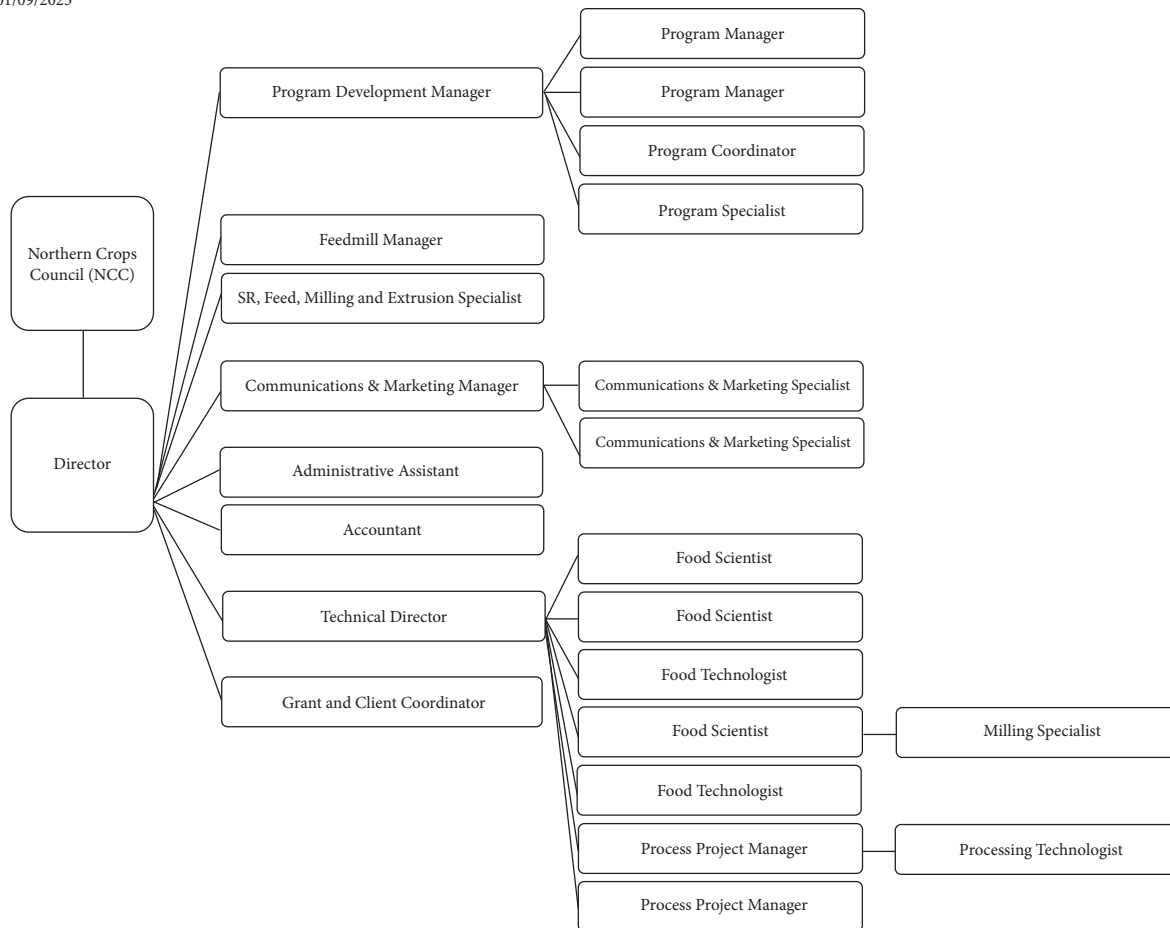
1. In-plant consultations regarding crop quality problems, product manufacturing, and possible purchasing methods and standards.
2. Short courses in product milling and processing, plant management, county elevator management, grain grading, and marketing of crops.
3. Educational and career and technical education training programs in milling, processing, manufacturing, purchasing methods, marketing procedures, product sales techniques, and other related subjects to be conducted for users of northern crops.
4. Short-term investigations, consultation, evaluation, and research to solve technical problems involved in the maintenance of quality and utilization of northern crops.
5. Annual surveys and quality analyses of new northern crops and monitoring of the quality and condition of commodities in market channels.
6. Research on northern crop damage problems and solutions.
7. Identification of problem areas in marketing northern crops abroad.
8. Preparation of instructional, informational, and reference publications on the end use, technical aspects of marketing, and utilization of northern crops for distribution domestically and abroad.

Purpose and Structure

NCI is a small agency with four distinct areas that work collaboratively to fulfill the mission of expanding markets for crops grown in the region.

1. Programs – Focus on the educational aspect of the mission
2. Technical Team – Focus on technical services and technical support for our courses and training.
3. Communications – Focus on communications and marketing of courses, technical services, and any other outreach that is needed.
4. Administration – Provide guidance, financial overview, and administrative help

An organizational chart for the NCI can be found on the next page.



FINANCIAL AUDIT FINDINGS

The State Auditor's office audited the Northern Crops Institute and did not identify any areas of concern.

CURRENT BIENNIUM MAJOR ACCOMPLISHMENTS & CHALLENGES

Agency Major Accomplishments

1. NCI completed its second value survey. Prime46, an external market research company was engaged to provide an independent assessment of the effectiveness and areas of improvement for Northern Crop Institutes programs and technical services. Generally, NCI does two types of courses – industry support (food safety, feed safety, grain elevator training) and market development courses (procurement, quality, product development). From a technical service standpoint, NCI provides product development work funded via grants and fee for service work with individual companies. The focus of the survey was on the market development courses and work with businesses by surveying those that attended courses and those who conducted technical services with us in 2020 and 2021. We wanted some distance from the course and service work to see the actual changes in behavior and investment. Some interesting results and findings:

- *87% of course participants said as a result of the course at NCI, they have a greater confidence in the U.S. supply chain.*
 - *97% of course participants said as a result of the course at NCI, they have a better understanding of U.S. crop quality.*
 - *56% of course participants said as a result of the course at NCI, they increased the volume purchased of U.S. Commodities.*
 - *As a result of our tech services 45%, of our clients report an increase in overall usage of northern grown crops in their products.*
 - *Our technical service clients reported that as a result of their experience at NCI, their average investment in the region has increased 24%.*
 - *It also highlights the level of our course participants, with 30% being research and development, 20% being purchasing, 20% being processing/production, and 8% being management.*
2. NCI has seen remarkable growth in the number of clients and projects. In the last biennium, NCI worked with approximately 90 clients doing 137 different projects. We are currently on track to assist over 120 clients on over 200 projects.
 3. NCI has almost doubled its level of special funding from the last biennium to the current biennium. Special funding in our budget rose from 44% last biennium to 70% this biennium. NCI has done this through increased grants, conducting additional programs, expanding our technical services, and soliciting sponsorships and additional support from the industry.
 4. The biennium was a tale of two very different years in terms of short courses. 2021 continued to see us host all of our courses in an online or hybrid format as a result of the pandemic and international travel shut downs. NCI saw record participation in our 15 short courses with 498 participants attending online and 24 attending in person. Participants were from 33 different countries. 2022 was a year for us to return to our roots with in person courses, and continue to utilize our online education tools as we hosted in person, online, and hybrid courses. NCI hosted a total of 20 short courses in 2022 with 335 participants from 49 countries. In total, NCI hosted 35 short courses with 857 participants in the current biennium.
 5. Growing markets for feedstuffs grown in the region remains a top priority for the Northern Crops Institute. Including tours (Riverview Dairy Tour in conjunction with NDSU), webinars (Future of Feeding), projects (currently five ongoing projects involving feed milling/pelleting and more proposed) and short courses (four specific feed courses, two additional with direct connections).
 6. NCI is hosting four ongoing webinar series: Market Update, Cereal Innovators, Future of Feeding, and Everything Ethanol. Over 5,000 people from 70 countries have viewed these webinars dedicated to growing markets in 2021 and 2022. NCI's webinars have three purposes. The first is to support our overall mission, the second is to find good speakers for our other events, and the third is to explore new areas of markets and gauge interest in certain topics. These webinars are free to participants, and continue to have positive impacts on our programs and markets and other partners have discussed conducting webinars for their specific commodities.

7. The first NCI conference in recent history was conducted in July. NCI's "Ancient Grains" conference held at Elk River, MN at the Oliver Kelley Farm was met with high praise from the industry. 93% of attendees reported it as meeting (36%) or exceeding (57%) their expectations and 100% said they would recommend it to a colleague. 87% said their understanding of ancient grains increased. This conference hosted hands-on demonstrations in the Oliver Kelley Farm kitchens, key note speakers included Ardent Mills executives, craft millers and bakers, expert researchers and industry experts from across the country, and panel discussions from a wide cross section of the industry.
8. The second conference occurred in September in Fargo/Moorhead. This conference was titled, "The Next 5 Years." This conference focused on the changing landscape of the region as it relates to agriculture. There were four key note speakers, followed by facilitated conversations. Topics were geopolitics, global food production, sustainability policies, and fuel transitions. The feedback was overwhelmingly positive with 93% saying it would benefit their work, 76% saying the conference would benefit their daily life, 32% said the conference would change how their organization functions, and 32% said it would directly impact their businesses financially. "The Next Five Years" Conference met (39%) or exceeded (55%) expectations, and 97% of the attendees would recommend it to a colleague.
9. After two years without hosting international trade teams, NCI was happy to open its doors to 107 participants from eight trade teams from almost 20 countries for meetings, tours, and updates at our facilities.
10. NCI has greatly expanded its work in helping grow market for biofuels. In the 21-23 biennium, NCI already hosted two ethanol procurement short courses and has an additional short course on the schedule. In addition, two short courses are already on the schedule for the first six months of the next biennium.
11. NCI followed up its sold-out release of the "Full Fat Soybean Meal Feeding" Handbook with its second handbook, "Ancient Grains of the Great Plains." One additional handbook is going to be released by the end of the biennium, "Wheat Quality Handbook." Two others handbooks are in development, "Barley Foods" and "Kitchen to Consumer: A Practical Guide to Launch Your Food Product Idea."
12. NCI continued its work in human and animal food safety conducting two courses this biennium. In addition, NCI has worked with a number of small scale and niche grower groups and organizations conducting workshops for small scale producers.
13. NCI continued its work in conjunction with the U.S. Grains Council in their efforts growing feed demand in Africa. NCI team members Shane Mueller (feed center manager) and Kim Koch (senior feed and food scientist) taught at the U.S. Grains Council's Center for Feed Manufacturing in Tunis, Tunisia.
14. The NCI communications and marketing team have assisted at a wide variety of industry events in a technical service and support capacity, from assisting with annual meetings and conferences ranging from the annual spring wheat tour to the Prairie Grains Conference.
15. NCI recently launched on-demand courses with Barley to Beer and The Next Five Years. This is a new mode of delivery, allowing participants to register at any time and progress at their own pace. Additional courses are being developed including Introduction to Sourdough Baking, Feed Milling 101, and Introduction to Risk Management.

Agency Challenges

1. Commissioned in 1990, The NCI Feed Mill is faced with a number of major issues:

- The current pellet mill was manufactured in 1956 and is beyond its useful life. Many parts (gear boxes, shafts) are no longer manufactured and are getting extremely difficult to source.
- The current bulk ingredient bins were all installed in 1990 and have been patched and repaired a number of times. There are no longer places to attach patches and there is an issue with leaks and some concerns about structural integrity.
- The auditorium and bathrooms are on the second floor of the building, and the facility is not currently handicap accessible.
- The current lab is extremely small and attempts to conduct training and short courses are hampered by the lack of space for this teaching component.
- We've focused on increasing the work that we do for the livestock industry, however, the current space we have to work with was not designed to handle the number of crops and ingredients that currently are needed.



2. The pandemic continued to be a major hurdle for the first half of the biennium. The team at NCI did not let the obstacles stand in the way of fulfilling our mission. Instead, they used the crisis to propel us forward to achieve the goals and objectives sooner than originally intended.

3. As the industry continues to change and develop, NCI has struggled to find people with the talent and skills in some of the areas that we need. As an example, for more than a year, we had posted a position, and engaged with a recruiting firm to find someone that would have oilseed processing experience both to help us develop courses, as well as assist with our technical services. We couldn't find anyone with those skills within our budget. This is one of many examples of having to develop our talent in house. At the same time, the competitive landscape for good quality employees also continues to go up, so both hiring, and retaining a talented team is an ongoing challenge.

4. Changing Trends: NCI continually looks at trends, changes, and challenges in the food and feed industry, as well as in crop production and we are constantly looking for opportunities to assist in developing markets and assist organizations and the industry. A few examples:

- Extrusion – NCI lacks a simple single screw extruder which is common in most food and feed applications. As the developing world increases demand for healthy snack foods and aquaculture, the lack of a single screw extruder limits how we can assist these industries to grow.
- Oilseed Refining – NCI has formed a mutually beneficial relationship with NDSU in oilseed processing. With the advent of gene editing, the ability for the industry to develop niche market oilseeds has significantly expanded. Some estimates put the number of specialty soybeans in product development alone at over 40 new traits. NDSU has hexane extraction capabilities and NCI has ability to deodorize the oil, however the middle step of oil refining is a key missing piece that is limiting our capabilities to help the industry develop.
- Protein isolation is a key component of the pulse and soybean industry and a growing importance in the cereal sector as more focus is being spent in extracting protein. North Dakota and the other states NCI serves, has the potential to be a leader in this area, however NCI lacks much of the

equipment needed (pin mills, sorters, fractionation, spray dryers, etc) to effectively help this industry grow. needed (pin mills, sorters, fractionation, spray dryers, etc) to effectively help this industry grow.

5. **Outreach and Marketing:** As a small organization, one of our constant struggles is making sure that people know who we are, and communicating what our capabilities are. So much of the focus is on making sure that our programs and clients are supported, that our limited resources are effectively and efficiently employed so that potential clients and course participants know what we can provide.
6. **Staffing:** NCI has significantly increased its number of programs over the last biennium and is working to increase the reach and capabilities of our technical services. In order to do this, a large number of students, grad students, part time employees, contractors, and temporary labor has been employed. This has benefited NCI as we've grown, however, it has created a work force that continues to fluctuate and is creating additional work with recruiting, onboarding and training.

NEXT BIENNIUM GOALS & PLANS

1. In July 2019, the Northern Crops Council finalized the NCI strategy document outlining the growth plans for NCI. To that end, NCI is planning for the biennium:
 - Growing the number of short courses back with the goal of 40+ with the rationale that the more we educate the industry, the more it drives growth of markets.
 - Developing seminars, webinars, and conferences both domestically and internationally. We've seen explosive growth in our webinars; however, NCI will need to continue to grow its webinars to support its mission and long term growth of its courses and technical services.
 - NCI has successfully launched two conferences, with another one planned this spring. Our hope is to double that in the next biennium.
 - NCI will release an additional three handbooks for the next biennium.
 - NCI made its first step towards measuring impact in 2020 with the value survey. We anticipate that this will continue and be further improved each year. In addition, we need to develop a measure of capacity utilization of equipment and facilities.
 - Increase overall awareness of NCI and attract more clients to utilize our services to help grow demand for northern grown crops.
 - Continue growing our external funding.
2. The Northern Crops Institute is looking forward to successfully transitioning to our new home at the Peltier Complex on the campus of NDSU. This investment by the state of North Dakota and our partners will take NCI to a completely different level in terms of NCI's capabilities, with an understanding that it will raise the bar on expectations as well. It will open up new avenues for collaboration and cooperation between NDSU, USDA, the North Dakota Trade Office, and NCI.

COMPARISON OF 2021-23 APPROPRIATION & ESTIMATED SPENDING

	2021-23 Appropriation	Actual Expenditures Through 11/30/22	Remaining Balance	Comments
Total General Fund Appropriation	\$1,987,142	\$1,319,513	\$667,629	--Balance will be drawn down for expenditures by end of biennium.

Source: November 2022 Appropriation Status Report

REQUEST/RECOMMENDATION COMPARISON SUMMARY

2023-2025 Needs-Based Budget

Reconciliation of 2021-23 Orig. General Fund Appropriation to 2023-25
Engrossed HB1020

	<u>NCI</u>
General Fund:	
2021-23 Original General Fund Appropriation	\$ 1,987,142
Base Adjustments:	
Base Payroll adjustments	<u>16,505</u>
2021-23 Adjusted Appropriation, Less Base Adjustments- (2023-25 Base Budget Request)	2,003,647
2023-25 Executive Recommendation Base Increases (Decreases):	
Compensation package salary/benefit increase 6%/4%	<u>165,246</u>
2023-25 Executive Recommended Base General Fund Increases(Decreases)	165,246
2023-25 Total Executive Recommended - General Fund	<u>2,168,893</u>
House Adjustments	
Compensation package salary/benefit increase 4%/4%	<u>(12,355)</u>
2023-25 House General Fund Increases(Decreases)	<u>(12,355)</u>
House Total General Funds	<u>2,156,538</u>
Full-time equivalent positions 2021-23	7.75
Full-time equivalent positions 2023-25 House Recommendation	8.80
Other Funds:	
2021-23 Original Other Fund Appropriation	\$ 1,922,618
Base Payroll adjustments	16,610
Special Fund Increase (Decrease)	1,500,000
Remove Capital Project & One Time funds	
2023-25 Adjusted Other Fund Appropriation(Base Budget Request)	<u>\$ 3,439,228</u>
2023-25 Executive Recommendation Base Increases (Decreases):	
Health Insurance increases	
Compensation package salary/benefit increase	161,897
Feed Production Center facility upgrade (SIIF One-time)	3,250,000
Pellet Mill (SIIF One-time)	650,000
2023-25 Executive Recommended Base Other Fund Increases(Decreases)	<u>4,061,897</u>
2023-25 Total Executive Recommended - Special Fund	<u>\$ 7,501,125</u>
House Adjustments	
Compensation package salary/benefit increase 4%/4%	\$ (12,179)
2023-25 House Special Fund Increases(Decreases)	<u>(12,179)</u>
House Total Special Funds	<u>7,488,946</u>
Full-time equivalent positions 2021-23	5.80
Full-time equivalent positions 2023-25 House Recommendation	9.35

FUNDING BREAKDOWN

North Dakota University System
Northern Crops Institute
Major Components of current base level

	638
	Northern Crops Institute
Salaries	\$ 4,562,123
Operating	1,207,895
Equipment	-
Capital Projects	-
Total Budget	<u>\$ 5,770,018</u>
Funding:	
Federal Fund	\$ -
General Fund	2,168,893
Special Fund	<u>3,601,125</u>
Total Funding	<u>\$ 5,770,018</u>

Source: SHERPA 2023-25, Governor's Recommendation

CURRENT BIENNIUM ONE-TIME FUNDING ITEMS

No one time funding was requested during the current biennium.

NEXT BIENNIUM ONE-TIME FUNDING ITEMS

Repairs, Updates, and Improvements to the NCI Feed Center:

The feed mill was designed and built over thirty years ago, and feed science has changed in that time period. The Northern Crops Institute would like to invest in upgrading the facilities to include:

- Upgraded equipment including the current pellet mill. The pellet mill was an original piece of the NDSU Experiment Station and was transferred to NCI in 1990; it is approximately 70 years old and while it has been maintained, it is beyond its useful life, parts are difficult to obtain, and it is in danger of critical failure.

- Current bin storage space limits what NCI can do from a product development standpoint, and are also 30+ years old. These bins will need to be replaced or there is a risk of critical failure and emergency funding in the near future.
- The current facility does not have adequate warehouse space for ingredients and finished feed storage. We possess donated equipment that is inaccessible most of the time due to lack of space.
- Current facility is not ADA compliant. This project will include an elevator to allow access for all to our educational facilities.
- Expanded educational facilities – current facilities do not have proper educational spaces, especially as we host international course participants. There are no breakout rooms, no place to serve meals (today participants eat outside, in a conference room, or are taken offsite).
- No room for new feed technology – more animal feeds, especially aqua feed utilize extrusion processing and NCI doesn't have the space or equipment to fulfill that mission effectively today.
- Parking lot, approaches and service drive are near impassable in the spring due to a clay underlay, this will allow paving of the parking lot (and prevent incidences where equipment and trailers sink into the lot).

No additional employees will be needed as a result of these upgrades.

Cost Analysis:

Building Costs (warehouse, lab, entrance, elevator, breakout space)	\$2,400,000
Equipment Costs -Pellet Mill	\$650,000
Bin Storage (replace 4 bins, build 4 additional, conveyance)	\$700,000
Parking Lot (pave parking lot)	\$150,000
Total	\$3,900,000

Additional operating costs will be minimal as much of the equipment will replace existing infrastructure.

NCI requests \$3.9 million to repair, upgrade, update, and expand the feed mill and equipment. The governor has recommended \$3.9 million in one-time funding from the Strategic Investment and Improvement Fund.

FUNDING DEPOSITS

NCI collects course fees and charges technical service fees for the services that we render. NCI continually strives to market our services and our courses and aim to maximize the impact of this funding. These funds are reinvested in equipment and at times personnel to run the equipment and assist the industry.

NCI always looks for ways to increase special funding, and have managed to almost double that funding in the last biennium, this money is then reinvested to help us further fulfill our mission of growing markets for crops grown in the region.

Our hope is that as we do more, that special funding also increases. Part of the challenge of much of this funding, especially with grants, is it doesn't provide funding for administration or overhead costs, which makes the appropriated funding all the more important.

APPROPRIATION BILL ADDITIONS

There is no need for any other sections to be included or are being requested/recommended to be included in the agency appropriation bill.

OTHER BILLS BEING CONSIDERED

There are no other bills being considered at this time.

LIST OF REQUESTED CHANGES

There is no list of requested changes.

NOV. 2021 FEDERAL STATE FISCAL RECOVERY FUNDING APPROPRIATIONS.

No special funds were allocated to NCI during the November 2021 special legislative session.

FEDERAL FUNDING AVAILABLE FOR THE 2023-25 BIENNIUM

At this time there is limited federal funding available for NCI programs.

Sixty-eighth
Legislative Assembly
of North Dakota

ENGROSSED HOUSE BILL NO. 1020

Introduced by

Appropriations Committee

1 A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota
2 state university extension service, northern crops institute, upper great plains transportation
3 institute, main research center, branch research centers, and agronomy seed farm; to provide
4 for a report; to provide for a transfer; to provide an exemption; and to declare an emergency.

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
7 as may be necessary, are appropriated out of any moneys in the general fund in the state
8 treasury, not otherwise appropriated, and from special funds derived from federal funds and
9 other income, to the North Dakota state university extension service, the northern crops
10 institute, the upper great plains transportation institute, the main research center, branch
11 research centers, and agronomy seed farm for the purpose of defraying the expenses of the
12 North Dakota state university extension service, the northern crops institute, the upper great
13 plains transportation institute, the main research center, branch research centers, and
14 agronomy seed farm, for the biennium beginning July 1, 2023, and ending June 30, 2025, as
15 follows:

16 Subdivision 1.

17 NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	Adjustments or <u>Enhancements</u>	<u>Appropriation</u>
20 Extension service	\$56,530,224	\$6,094,267	\$62,624,491
21 Soil conservation committee	<u>1,211,520</u>	<u>150,000</u>	<u>1,361,520</u>
22 Total all funds	\$57,741,744	\$6,244,267	\$63,986,011
23 Less estimated income	<u>28,303,921</u>	<u>2,064,592</u>	<u>30,368,513</u>

Sixty-eighth
Legislative Assembly

1	Total general fund	\$29,437,823	\$4,179,675	\$33,617,498
2	Full-time equivalent positions	241.77	13.93	255.70
3	Subdivision 2.			

NORTHERN CROPS INSTITUTE

5			Adjustments or	
6		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
7	Northern crops institute	<u>\$3,909,760</u>	<u>\$5,735,724</u>	<u>\$9,645,484</u>
8	Total all funds	\$3,909,760	\$5,735,724	\$9,645,484
9	Less estimated income	<u>1,922,618</u>	<u>5,566,328</u>	<u>7,488,946</u>
10	Total general fund	\$1,987,142	\$169,396	\$2,156,538
11	Full-time equivalent positions	13.55	4.60	18.15
12	Subdivision 3.			

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

14			Adjustments or	
15		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
16	Upper great plains transportation	<u>\$23,527,957</u>	<u>\$2,000,375</u>	<u>\$25,528,332</u>
17	institute			
18	Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
19	Less estimated income	<u>19,042,350</u>	<u>1,058,021</u>	<u>20,100,371</u>
20	Total general fund	\$4,485,607	\$942,354	\$5,427,961
21	Full-time equivalent positions	43.88	0.00	43.88
22	Subdivision 4.			

MAIN RESEARCH CENTER

24			Adjustments or	
25		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
26	Main research center	<u>\$111,676,188</u>	<u>\$113,223,073</u>	<u>\$224,899,261</u>
27	Total all funds	\$111,676,188	\$113,223,073	\$224,899,261
28	Less estimated income	<u>57,087,956</u>	<u>103,473,971</u>	<u>160,561,927</u>
29	Total general fund	\$54,588,232	\$9,749,102	\$64,337,334
30	Full-time equivalent positions	334.56	27.91	362.47
31	Subdivision 5.			

1	BRANCH RESEARCH CENTERS			
2			Adjustments or	
3		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
4	Dickinson research center	\$7,078,838	\$214,700	\$7,293,538
5	Central grasslands research center	3,553,320	115,371	3,668,691
6	Hettinger research center	5,174,885	233,889	5,408,774
7	Langdon research center	3,091,310	394,636	3,485,946
8	North Central research center	5,203,251	184,131	5,387,382
9	Williston research center	5,362,734	245,458	5,608,192
10	Carrington research center	<u>9,827,963</u>	<u>463,191</u>	<u>10,291,154</u>
11	Total all funds	\$39,292,301	\$1,851,376	\$41,143,677
12	Less estimated income	<u>20,722,818</u>	<u>459,658</u>	<u>21,182,476</u>
13	Total general fund	\$18,569,483	\$1,391,718	\$19,961,201
14	Full-time equivalent positions	108.21	2.60	110.81
15	Subdivision 6.			
16	AGRONOMY SEED FARM			
17			Adjustments or	
18		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
19	Agronomy seed farm	<u>\$1,579,655</u>	<u>\$49,139</u>	<u>\$1,628,794</u>
20	Total special funds	\$1,579,655	\$49,139	\$1,628,794
21	Full-time equivalent positions	3.00	0.00	3.00
22	Subdivision 7.			
23	SECTION 1 TOTAL			
24			Adjustments or	
25		<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
26	Grand total general fund	\$109,068,287	\$16,432,245	\$125,500,532
27	Grand total other funds	<u>128,659,318</u>	<u>112,671,709</u>	<u>241,331,027</u>
28	Grand total all funds	\$237,727,605	\$129,103,954	\$366,831,559
29	SECTION 2. ONE-TIME FUNDING - EFFECT ON BASE BUDGET - REPORT TO THE			
30	SIXTY-NINTH LEGISLATIVE ASSEMBLY. The following amounts reflect the one-time funding			

1 items approved by the sixty-seventh legislative assembly for the 2021-23 biennium and the
2 2023-25 biennium one-time funding items included in section 1 of this Act:

3	<u>One-Time Funding Description</u>	<u>2021-23</u>	<u>2023-25</u>
4	Deferred maintenance	\$500,000	\$500,000
5	Transportation data intelligence center	0	432,600
6	Multimodal carbon dioxide transportation study	0	398,450
7	Northern crops institute feed production center facility upgrade	0	3,250,000
8	Pellet mill	0	650,000
9	Storage sheds	0	1,900,000
10	Nesson Valley irrigation research site project	0	1,200,000
11	Branch research extension centers capital projects inflation	0	2,933,230
12	Hettinger research extension center land purchase	0	1,038,000
13	Waldron Hall replacement project	0	97,000,000
14	Carrington research extension center capital projects	1,221,000	0
15	Central grasslands research extension center	2,488,000	0
16	capital projects		
17	Dickinson research extension center capital projects	2,200,000	0
18	Hettinger research extension center capital projects	3,720,000	0
19	Langdon research extension center capital projects	473,000	0
20	Remote sensing of infrastructure	<u>2,225,000</u>	<u>0</u>
21	Total all funds	\$12,827,000	\$109,302,280
22	Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
23	Total general fund	\$500,000	\$3,606,680

24 The 2023-25 biennium one-time funding amounts are not a part of the entity's base budget
25 for the 2023-25 biennium. The upper great plains transportation center, northern crops institute,
26 and main research center shall report to the appropriations committees of the sixty-ninth
27 legislative assembly on the use of this one-time funding for the biennium beginning July 1,
28 2023, and ending June 30, 2025.

29 **SECTION 3. DICKINSON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**

30 **INCOME.** The Dickinson research extension center may spend up to \$755,000 of revenues
31 received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing

1 operational expenses. Any revenues received in excess of \$755,000 may be spent only for
2 one-time expenditures for the biennium beginning July 1, 2023, and ending June 30, 2025.

3 **SECTION 4. WILLISTON RESEARCH EXTENSION CENTER - MINERAL RIGHTS**

4 **INCOME - REPORT.** The Williston research extension center shall report to the sixty-ninth
5 legislative assembly on amounts received and spent from mineral royalties, leases, or
6 easements in the biennium beginning July 1, 2021, and ending June 30, 2023, and the
7 biennium beginning July 1, 2023, and ending June 30, 2025.

8 **SECTION 5. ADDITIONAL INCOME - APPROPRIATION.** In addition to the amount
9 included in the grand total other funds appropriation line item in section 1 of this Act, any other
10 income, including funds from federal acts, private grants, gifts, and donations, or from other
11 sources received by the North Dakota state university extension service, the northern crops
12 institute, the upper great plains transportation institute, the main research center, branch
13 research centers, and agronomy seed farm, except as otherwise provided by law, is
14 appropriated for the purpose designated in the act, grant, gift, or donation, for the biennium
15 beginning July 1, 2023, and ending June 30, 2025.

16 **SECTION 6. ESTIMATED INCOME - STRATEGIC INVESTMENT AND IMPROVEMENTS**
17 **FUND - UPPER GREAT PLAINS TRANSPORTATION INSTITUTE - NORTHERN CROPS**

18 **INSTITUTE - MAIN RESEARCH CENTER.** The estimated income line item in subdivision 2 of
19 section 1 of this Act includes the sum of \$3,900,000 from the strategic investment and
20 improvements fund for the northern crops institute feed production center facility upgrade and
21 pellet mill. The estimated income line item in subdivision 3 of section 1 of this Act includes the
22 sum of \$432,600 from the strategic investment and improvements fund for a transportation data
23 intelligence center. The estimated income line item in subdivision 4 of section 1 of this Act
24 includes the sum of \$99,400,000 from the strategic investment and improvements fund for the
25 Waldron Hall replacement project, storage sheds, and deferred maintenance.

26 **SECTION 7. ESTIMATED INCOME - FEDERAL STATE FISCAL RECOVERY FUND -**
27 **NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - PURCHASE OF LAND**

28 **AUTHORIZED.** The appropriation in subdivision 4 of section 1 of this Act includes the sum of
29 \$1,038,000 from federal funds derived from the state fiscal recovery fund for the purchase of
30 real property for the Hettinger research center, for the biennium beginning July 1, 2023, and
31 ending June 30, 2025. The Hettinger research center shall make payments in lieu of property

1 taxes in the manner and according to the conditions and procedures that would apply if the
2 property were privately owned. The North Dakota state university main research center is
3 authorized to purchase four parcels of land in Adams County, described as:

- 4 1. The southeast quarter of section 24, township 129 north, range 96, Adams County;
- 5 2. A tract of land in the northeast quarter of the southeast quarter of section 13,
6 township 129 north, range 96, Adams County;
- 7 3. The southeast quarter of the southeast quarter of section 13, the north half of the
8 northeast quarter of section 24, township 129 north, range 96, Adams County; and
- 9 4. The north half of the north half of section 19, township 129 north, range 95, Adams
10 County.

11 **SECTION 8. EXEMPTION - TRANSFER AUTHORITY.** Notwithstanding section 54-16-04,
12 upon approval of the state board of agricultural research and education and appropriate branch
13 research center directors, the director of the office of management and budget shall transfer
14 appropriation authority within subdivisions 1, 2, 4, and 5 of section 1 of this Act.

15 **SECTION 9. EXEMPTION - FULL-TIME EQUIVALENT POSITION ADJUSTMENTS -**
16 **REPORT.** Notwithstanding any other provisions of law, the state board of higher education may
17 adjust or increase full-time equivalent positions as needed for the entities in section 1 of this
18 Act, subject to availability of funds. All full-time or part-time positions must be separate from
19 North Dakota state university. Annually, the board shall report to the office of management and
20 budget and to the budget section any adjustments made pursuant to this section.

21 **SECTION 10. EXEMPTION - UNEXPENDED GENERAL FUND - EXCESS INCOME.** Any
22 unexpended general fund appropriation authority available to and any excess income received
23 by entities listed in section 1 of this Act are not subject to the provisions of section 54-44.1-11,
24 and any unexpended funds from these appropriations or revenues are available and may be
25 expended by those entities, during the biennium beginning July 1, 2025, and ending June 30,
26 2027.

27 **SECTION 11. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS.** The amounts
28 appropriated from other funds for Carrington research center capital projects, central grasslands
29 research center capital projects, and Langdon research center capital projects in subdivision 4
30 of section 1 of chapter 48 of the 2021 Session Laws, are not subject to the provisions of section
31 54-44.1-11, and any unexpended funds from these appropriations or related revenues are

1 available and may be expended during the biennium beginning July 1, 2023, and ending
2 June 30, 2025.

3 **SECTION 12. EXEMPTION - BRANCH RESEARCH CENTERS PROJECTS - FEDERAL**
4 **STATE FISCAL RECOVERY FUND.** The amounts appropriated from federal funds derived from
5 the state fiscal recovery fund for one-time projects at the Carrington research center, central
6 grasslands research center, Dickinson research center, and Hettinger research center in
7 section 6 of chapter 550 of the 2021 Special Session Session Laws are not subject to the
8 provisions of section 54-44.1-11, and any unexpended funds from these appropriations are
9 available and may be expended during the biennium beginning July 1, 2023, and ending
10 June 30, 2025.

11 **SECTION 13. EXEMPTION - MAIN RESEARCH CENTER - PUBLIC IMPROVEMENT**
12 **CONSTRUCTION.** The main research center, for its use of the \$2,400,000 appropriated from
13 the strategic investment and improvements fund for deferred maintenance and branch research
14 center storage sheds, is not subject to the provisions of section 48-01.2-02.1, and the main
15 research center may spend this funding without procuring plans, drawings, and specifications
16 from an architect or engineer.

17 **SECTION 14. EMERGENCY.** The \$250,000 appropriated from the general fund for a spud
18 research fast track in subdivision 4 of section 1 of this Act is declared to be an emergency
19 measure.

2023 Impact Analysis

Northern Crops Institute (NCI) is an effort to support the promotion and market development of crops grown in North Dakota, Minnesota, Montana, and South Dakota. NCI is an international meeting and learning center that brings together customers, commodity traders, technical experts, and processors for discussion, education, and technical services. Situated in Fargo, North Dakota, USA, this unique facility is only minutes from the farm fields that yield much of the world's food.

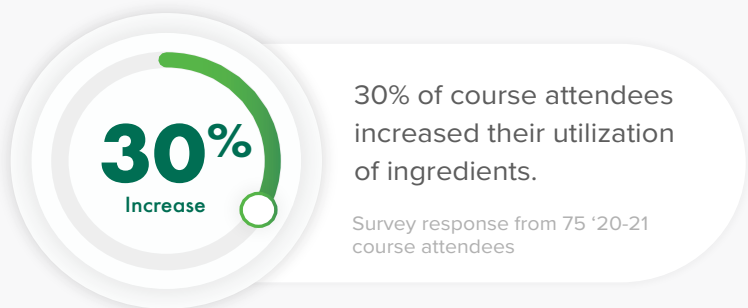
Course Impact

The Northern Crops Institute offers a variety of courses, webinars, and handbooks that unite customers, commodity traders, technical experts, and professors for discussion and education. During our courses, participants can expect to refresh their expertise and be exposed to existing and new technology, participate in lectures, case histories, laboratory demonstrations and tours and hear from industry experts, government officials and university professors.



● - Yes ● - No Survey response from 75 '20-21 course attendees

As a result of your experience with NCI



“
NCI's competency in providing relative courses is the benchmark. They have the best people and facilities that are reliable and can easily adapt to the course participants.
 ”

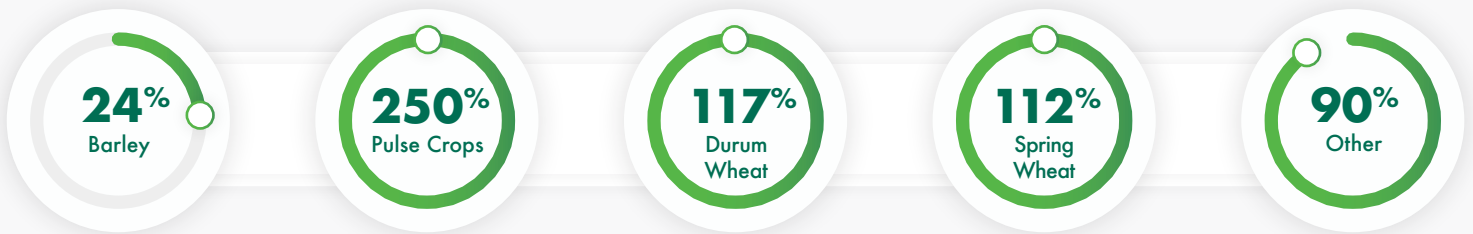
Technical Impact

NCI has a technical staff comprised of highly experienced food scientists, processing technologists, and project managers. NCI has the experience and resources to bring your vision to life; from start to finish we partner with clients through the process, creating a concise and clear experience to help scale-up your product development.

“
Sourcing commodities and ingredients becomes more effective with in depth understanding of crops quality and supply chain and it's challenges”
 ”

– Technical Service Client

As a result of your experience with NCI, how much has your utilization of the following ingredients net increased over the past 2 years?



Survey response from 19 technical service clients from the '20-21 calendar year

Overall Investments

Our research shows that clients have increased their overall investment activity by 16% within ND, MN, MT, and SD after their experience working with NCI.

Survey response from 19 technical service clients from the '20-21 calendar year

24% Net Increase

Working with NCI have allowed us to:

- “ Have confidence to invest in larger scale crop production and in larger scale crushing and extrusion. ”
- “ Expand our product offerings. ”
- “ Explore valued added opportunities with customers. ”
- “ Run small trials and preliminary studies on different concepts before we scale up the products and processes. ”
- “ Start a business. ”

Survey conducted by Prime46



Cavalier County Job Development Authority

901 3rd Street Suite 5 ∞ Langdon, ND 58249 ∞ Phone: 701-256-3475 ∞ Fax: 701-256-3536

March 2, 2023

Testimony for H.B. 1020 – Senate Appropriations Government Operations Division

My name is Shannon Duerr and I work as the Executive Director for the Cavalier County Job Development Authority. In that capacity I also serve on the advisory board for the Langdon Research Extension Center (LREC).

Thank you for considering testimony on H.B. 1020 this morning. I encourage you to support the additions/changes as presented by the House of Representatives for the current version of the bill, and on behalf of CCJDA I want to extend our support for:

- carryover funding for the Langdon REC greenhouse plus the additional \$251,430 to complete the project,
- one FTE (\$176,000) and operating funds (\$74,000) to support the expanding plant pathology research program at LREC,
- a request to increase operating funds (to \$480,000) for the REC's and the Main Station,
- and funding for four equipment sheds (\$1,900,000) to be used to store specialized research equipment plus additional funding so that all seven research centers would be able to provide adequate care for the equipment.

CCJDA is closely aligned with the LREC in all of our economic development goals for the community and region. The work of all our REC's around the state is highly regarded and is a mainstay of the robust agricultural sector of the North Dakota economy. I encourage your support for H.B. 1020.

Respectfully,



Shannon Duerr, Executive Director
Cavalier County Job Development Authority

To our esteemed legislators,

I am writing a letter in support of HB 1020, a bill for an Act to provide an appropriation for defraying the expenses of the North Dakota state university extension service, northern crops institute, upper great plains transportation institute, main research center, branch research centers, and agronomy seed farm.

As an alumnus of the College of Agriculture, Food Science, and Natural Resources, I know how important projects like these are to the university, to the students that attend, to the research conducted at the university, to the extension agency, and the myriad benefits to the state that the aforementioned provide.

For some background on me: I graduated from NDSU with a BS in horticulture, with a minor in crop and weed science. I worked several jobs with NDSU including the Animal Nutrition and Physiology Center, Central Grasslands Research and Extension Center, and NDSU dining services. I also made use of the greenhouses for several of my classes, including an independent study in which I conducted research on fertilizers in lettuce production. All of the above are related to the work that NDSU does in its various capacities. From food science and food service safety to animal quality control and assurance, food, fuel, and fiber production, and everything in between; This bill will provide for the continued work that keeps us fed, clothed, moving, safe, and profitable.

As my current role of City Forester, I rely heavily on the work of the woody plant improvement program run by Dr. Todd West. This provides me with plants that are proven in our state, giving me the assurance that I will not be wasting time and public funds on trees that may not be as hardy or tolerant of our conditions as the claims of the nurseries that sell them. This research would not be possible without proper greenhouse space, lab space with the correct equipment (which can sometimes be quite expensive), and funding for the research farms that trial the finished products.

In my personal life I am involved in my family farm and am very appreciative of the work that is done with NDSU extension from the improved crop varieties, tests on diseases and pests and their treatments to cure or prevent, and all of the advice and help from our county extension agent. Without their work, our state would not be the powerhouse in agriculture that we are. That being said, they need the space to do that work. It is a wonder that as much high-quality work has been completed with the limited space and resources available. Just imagine what they will be able to accomplish once they get that space and tools they desperately need.

I urge you to fund the new Ag Field Lab Facility. It will fill the needs of the people and departments who fulfill our needs as public employees, private ag producers and landowners, and the general gardening public. It will make a safer more robust work space and give us a great ROI from the investment in this facility by decreasing costs to the taxpayers, increasing yields to our producers, and increasing the beauty of our yards and cities, drawing in more tourists and residents to fill our ever increasing job market shortfalls.

Your decisions on this bill will have lasting and far reaching impacts on our state and, in all reality, the nation. Please understand the gravity of your choices, and I hope you chose to approve the funding of this bill and of the New Ag Field Lab Facility.

Thank you for your consideration and for all that you do for this state.

Respectfully,

Erik Laber
Jamestown City Forester



Senate Appropriations-HB 1020

Jillian Patrie, Baker Garden & Gift Production Greenhouse Manager

March 2, 2023

Baker Garden & Gift supports HB 1020.

The NDSU woody plant improvement project has introduced 61 superior woody plants for production and sale, with 41 active registered trademarks with the U.S. Patent and Trademark office. NDSU woody plant introductions have a nursery wholesale value of over \$2.8 million and a \$6.8 million value in retail sales for 2021 alone. The return on investment of this program is with increasing the diversification and availability of woody plants with increased disease, insect resistance and winter hardiness for landscapes throughout North Dakota. We have and will continue to see the importance of new introductions as we see new disease and insect pressures arise. As a nursery and retail business, we want to offer our customers the best plant selections for our area. NDSU's research has been key in bringing well adapted plant material into the nursery industry.

For these reasons, Baker Garden & Gift supports the funding and missions of NDSU.



**NORTH DAKOTA ASSOCIATION
OF SOIL CONSERVATION DISTRICTS**
OWNER AND OPERATOR OF LINCOLN-OAKES NURSERY
3310 University Drive
Bismarck, ND 58504
(701) 223-8518 • 223-8575

Kent Pedersen
President

Monte Bloms
Vice President

Ref: SCD Appropriation Support for Full Funding
Program Initiatives #5 for and additional \$300,000 in Operational Support to NDSSCC
House Bill #1020 (March 2nd, 2023)

To Senate Appropriations Committee,

Good Afternoon, Mr. Chairman and Senate Appropriations Committee members. For the record, my name is Rhonda Kelsch and I represent the North Dakota Association of Soil Conservation Districts. A grass roots organization that represents the 54 Soil Conservation Districts in North Dakota directing our focus on all aspects of natural resources, youth and adult education, along with urban conservation. Soil Conservation Districts are responsible for carrying out a program of soil and water conservation with all cooperating rural and urban residents within the district boundaries.

We ask for your continued support for full funding along with the additional \$300,000 in operational support to the North Dakota State Soil Conservation Committee (NDSSCC). The funding through this allocation is directly tied to conservation deliverables through our North Dakota State Soil Conservation Committee. To highlight a few of our locally led deliverables that Soil Conservation Districts have achieved through the District Activity Reporting Tool (DART) represents 3.3 million feet of conservation tree planting installations, 8,000 hours of free Technical Assistance to landowners, 24,565 school-age attendees by educational programs, 1,000 hours of urban and agriculture programs, 5,500 hours of producer cost share programs, 16,248 acres of grass seedings, and 7,800 landowner attendees to various agricultural meetings. These funds provide direct staff support to the local Soil Conservation Districts.

The ND Soil Conservation Districts work in partnership with various local, state, and federal partners to achieve programmatic goals and facilitate cost share programs to address natural resources within their counties. Like many organizations struggling to provide an adequate wage and benefits package to their employees – this funding allocation helps ease the burden of the local budgets and increase staff capacity. The Soil Conservation Districts in North Dakota have the unique advantage to tailor their staffing needs, cost share programs, and outreach activities based on their local work group priorities voiced by the participants in their respective county. These funds are distributed on a ranking scale that is provided by the North Dakota State Soil Conservation Committee to determine the exact funding needs of the individual district.

We encourage your continued support to the 54 Soil Conservation Districts in North Dakota along with the additional funding request outlined in the NDSU Program Initiative #5. I would be happy to take any questions you may have moving forward.

**North Dakota State University
Upper Great Plains Transportation Institute
Agency 627
Denver Tolliver, Director**

2023-2025 Biennial Budget Request

**Presented to:
The Senate Appropriations Committee**

March 2, 2023

***Upper Great Plains Transportation Institute
Programs, Centers, and Focus Areas***

- Advanced Traffic Analysis
 - ND Local Technical Assistance
 - Western ND Transportation Liaison
 - Small Urban & Rural Mobility
 - Road & Bridge Needs Assessment
 - Mountain-Plains Consortium
 - Advanced Technologies
 - DOT Support Center
 - Tribal Technical Assistance
 - Commercial Vehicle Safety
 - Transportation Safety & Security
 - Agricultural Freight
 - Transportation Learning Network
 - Grade Crossing Safety
-

Upper Great Plains Transportation Institute Advisory Council

- Aeronautics Commission
 - Associated General Contractors of ND
 - Association of Counties
 - Greater ND Chamber
 - Corn Council
 - Department of Agriculture
 - Department of Commerce
 - Department of Transportation
 - Farmers Union
 - Grain Dealers Association
 - Grain Growers Association
 - League of Cities
 - Lignite Energy Council
 - Motor Carriers Association
 - Public Service Commission
 - Wheat Commission
 - Member of Dakota Transit Association
 - Representative of manufacturing sector
 - Representative of railway industry
-

Background Agency Information

<p><i>Legislative Directives and Purpose</i> N.D.C.C 54-53-03</p>	<p>The Upper Great Plains Transportation Institute’s purpose is to “conduct and supervise research in the field of transportation and logistics in order to facilitate acquisition of a wider knowledge and understanding of marketing factors associated with the geographical location of the state of North Dakota and the upper great plains in the field of transportation and their influence on the socioeconomic systems of the state, region, and country.” UGPTI’s research areas “must include the study of commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services (N.D.C.C 54-53-03).”</p>
<p><i>Advisory Council</i> N.D.C.C 54-53-02</p>	<p>The Legislature established a transportation council to serve in an advisory capacity and “consult with the Institute in matters of policy affecting the administration of this chapter and in the development of transportation in the state of North Dakota.” The council shall elect its own chairman and the Director of the Institute shall serve as the executive secretary of the council.</p>
<p><i>Administration</i> N.D.C.C 54-53-01</p>	<p>The Institute must be administered by and in conjunction with the North Dakota State University of Agriculture and Applied Science. The president and administration of the North Dakota State University are responsible for the selection of personnel for and the administration of the Institute.</p>

Major Accomplishments in Current Biennium

<p><i>Biennial Road & Bridge Needs Assessment</i></p>	<p>With its general fund appropriation, UGPTI conducted its biennial analysis of county, township, and tribal road investment needs in the state. The study included 71,808 miles of road, including 5,843 miles of paved county road and 56,656 miles of gravel road. UGPTI staff and student employees counted and classified vehicles at 424 locations on county, township, and tribal roads throughout the state, recording the total number of vehicles per day at each site, as well as the number of trucks, by size category. When combined with NDDOT traffic counts on county roads, UGPTI’s traffic data provide a comprehensive picture of traffic around the state. In addition to the traffic counts, UGPTI analyzed the surface conditions of more than 2,750 miles of paved county road, collecting ride quality data in a cost-effective manner using sensors and special smart phones apps to measure road roughness and video images to assess road conditions (e.g., cracking) and develop composite ride scores. A survey was administered to each county to determine blading and gaveling practices, the sources and costs of gravel, and other cost factors needed for the unpaved portion of the road analysis. All 53 counties responded to the survey. The current conditions of 2,336 bridges on county roads were assessed during the biennium. The results are summarized below.</p>
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County, Township, & Tribal Road & Bridge Investment Needs Estimates (Millions)

Time Period	Unpaved Roads	Paved Roads	Bridges	All
Twenty Years	\$6,545.66	\$3,248.80	\$715.57	\$10,510.01
Current Biennium	\$660.35	\$557.10	\$139.42	\$1,356.87
Avg. Biennial	\$654.57	\$324.88	\$71.56	\$1,051.00

<i>Road & Bridge Asset Management</i>	With its general fund appropriation, UGPTI is improving the Geographic Roadway Inventory Tool (GRIT), which stores and displays information on road surface type, current condition, shoulder width, subgrade strength, and other design features, as well as traffic, construction history, and improvement plans. A pavement condition forecasting procedure is included in GRIT that allows counties to project conditions of roads for up to 35 years. Recent enhancements include the incorporation of emergency-related projects such as flooding (so the public can see where roads are closed), a load restriction web-map linked to the NDDOT's Traveler Information Map that allows truckers to view state and local road restrictions on one web-based map, and an inventory and map of bridges and minor structures.
<i>Tribal Technical Assistance Program Center</i>	UGPTI was selected by Federal Highway Administration as the home of the Northern Region TTAP Center, with funding of \$300,000 per year with potential options for additional funding. TTAP Vision: to enhance the quality of life in Tribal communities by building capacity for Tribes to administer and manage their transportation programs and systems. The mission is to "serve as a go-to local resource for Tribal transportation training, technical assistance, and technology transfer needs and opportunities. The awarding of this center is a recognition of UGPTI's past and on-going efforts and a great tool for leveraging partnerships and resources.

One-Time Funding

<i>Funding Amount and Source</i>	The Legislature provided UGPTI with \$225,000 in one-time funding from the strategic investment and improvements fund to be matched by at least that amount in federal funds. The funds have been used as match for \$336,000 in Federal grant funds (which require a dollar-for-dollar match). The federal funding extends through the end of Federal FY 2023. Two on-going project reports will be completed by then.
<i>Remote Sensing using Drones and AI</i>	These research results will inform stakeholders about appropriate types of drone and sensor payloads, as a function of the types of transportation assets being inspected. The research will describe the downstream data processing and model building required using artificial intelligence. The findings will support broad initiatives within North Dakota to expand remote sensing applications that can utilize the statewide deployment of a beyond visual line of sight (BVLOS) network.
<i>Autonomous Aircraft Logistics</i>	Technological advancements in energy storage, capacity, computing, communications, and lightweight structural materials promise to reduce the cost, size, noise, and risks of drone vehicle operations, making them potentially competitive with trucks for certain movements. This research will develop a better understanding of the opportunities that may exist for companies in the regions and challenges to deployment, including how drone deliveries fit into the overall logistics process.
<i>Audits</i>	A team from the Office of the State Auditor audited UGPTI's financial transactions and expenditures for the biennium that ended June 30, 2021. The audit did not identify any areas of concern. This was the only audit of UGPTI during the biennium.

UGPTI Funding Sources

Special Funds

UGPTI does not operate facilities or assess fees that generate revenue on a continuous basis. Rather, UGPTI's special funds appropriation request represents the authority to collect grants and contracts from state and local agencies and private industries. Most of UGPTI's special funds originate from the North Dakota Department of Transportation under a strategic agency partnership that has benefited North Dakota for the last four decades. The ND Wheat Commission and several metropolitan planning organizations (MPOs) are the other regular providers of grant funding in addition to the NDDOT. There is uncertainty in the levels of these grants and contracts that will be received during any biennium.

Federal Funds

The federal fund request represents a ceiling for UGPTI's federal grant collections. It is the agency's best projection of the authority needed to procure all grants that may become available during the biennium. The vast majority originates from the U.S. Department of Transportation (U.S. DOT), including grants from the Office of the Secretary, Federal Highway Administration, Federal Transit Administration, Federal Motor Carrier Safety Administration, and the National Highway Traffic and Safety Administration. Some grants (such as the University Transportation Center grant) are provided directly to UGPTI by federal agencies. In other cases, the funds are "federal source funds" provided by third parties through the federal procurement process. Although federal funds are important to UGPTI's budget, they have pre-determined uses. Ultimately, UGPTI has limited discretion in determining which critical issues are researched with federal funds. Federal research funds (although very important) are not a substitute for state research dollars.

General Funds

Although state general funds comprise a minor portion of UGPTI's overall budget, they are essential to the agency's success and sustainability. State general funds are needed to match federal grants and provide continuity in times of delay or disruption in federal funding. Many of UGPTI's direct grants (such as the University Transportation Centers grant) require a 100% match of non-federal source funds. UGPTI's general funds are the only dependable source of match for these funds. Moreover, general funds are the only hard dollars in UGPTI's budget. Federal and special funds are provided at the discretion of intermediate agencies and third parties and are subject to the budget limits placed on these agencies.

UGPTI Budget Requests

As shown in Table 1, the House increased UGPTI's general fund budget from \$4,485,607 to \$5,427,961. UGPTI's federal and special fund appropriations (which are shown as estimated income) were also increased in HB 1020. UGPTI's full-time equivalent positions have not been adjusted for the last several biennia and remain at 43.88 FTE.

Table 1. Budget Request as Approved by the House of Representatives

Item	Base Level	Enhancements	Appropriation
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	\$19,042,350	\$1,058,021	\$20,100,371
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0	43.88

As shown in Table 2, UGPTI’s base-level general fund appropriation was increased by a total of \$543,904 by the House of Representatives. Of this total, \$243,904 are targeted for salary and benefit increases. The remaining \$300,000 are meant for a new freight transportation and logistics program, which is described below.

Table 2. Adjustments to Appropriations in HB 1020

Item	Base Level	One-Time
Salary & Benefit Increases	\$243,904	
Freight Transportation & Logistics Program	\$300,000	
Multimodal CO2 Transportation Study	\$0	\$398,450
Total Adjustments	\$543,904	\$398,450
<i>Source</i>	General Funds	Special Funds

In addition to the \$543,904 increase in base funding, the House of Representatives appropriated \$398,450 of one-time funding for a Multimodal CO₂ Transportation Study, which is also described below. The increase of \$1,058,021 in estimated income shown in Table 1 includes \$423,600 in one-time special funds that would be allocated from the Strategic Investment and Improvements Fund to establish a Transportation Data Intelligence Center. The remainder of the \$1,058,021 enhancement in estimated income consists of authorizations to collect additional grant and contract funds to cover the portion of the salary and benefit package that is not funded from general funds.

Transportation Data Intelligence Center

Request

This request, which was included in the Executive Recommendation and approved by the North Dakota Board of Higher Education and UGPTI’s Advisory Council, is for \$432,600 of one-time funding to repurpose and equip a room in the Quentin Burdick Building at North Dakota State University to receive, process, archive, and analyze data from field sensors, vehicles, and many other sources. The Transportation Data Intelligence Center will enable UGPTI to perform advanced data analytics, develop artificial intelligence solutions and tools, contribute timely transportation information to travelers and service providers, and train students in artificial intelligence and automation.

Benefits to the State

This one-time investment will support the deployment of advanced transportation technologies that enable safe and efficient travel, as well as facilitate future research which will benefit the State for years to come. The programs made possible by this one-time investment will enable data-driven transportation decision-making through the availability of timely information

and online tools and it will enhance UGPTI's capability to compete for federal grants in the field of advanced transportation technologies, partner with private entities, and support the training of future workers in artificial intelligence and advanced transportation technologies

*Functions
and
Roles*

The Transportation Data Intelligence Center will receive data from a variety of field sensors (e.g., roadway environmental sensors, traffic counters, vehicles classification sites, speed, and weigh-in-motion sensors), cameras, UAVs, and (ultimately) vehicles; process, temporarily store, and archive the data; mine and analyze the data using machine and deep learning algorithms written specifically for the tasks; provide near real-time data feeds of road and traffic conditions; and consolidate and analyze the field data needed for roadway and bridge asset management. The Center will support State initiatives such as the Transportation Management Center, as well as the deployment of advanced technologies (such as connected vehicle technologies).

Details

Specifically, the funding will be used to repurpose and equip a room in the Quentin Burdick Building, including remodeling expenses, computer workstations for staff and students, monitors to display field and traffic data, mini supercomputer to process large incoming data streams and run computationally intensive data mining and machine learning algorithms, servers to store and archive large data streams, and supporting telecom equipment.

Freight Transportation & Logistics Biennial Surveys and Reports

*Background
and Needs*

North Dakota's economy is dependent on freight transportation and logistics services. Transportation and supply-chain bottlenecks and breakdowns have major impacts on producers and industries. The Legislature and State agencies need comprehensive and current information to monitor rapidly changing industry activity levels and logistics patterns and identify trends, issues, and needs in a proactive manner. UGPTI currently analyzes and publishes shipment data from elevators to markets. However, this report covers only a portion of the supply chain and does not include information on farm-to-elevator, farm-to-processing plant, and elevator-to-processing plant movements or manufactured goods.

*Benefits
to the
State*

If this request is funded, UGPTI will conduct surveys and publish reports each biennium about the transportation patterns and needs of agricultural processors, shipments from farms to elevators, inbound and outbound shipments to and from manufacturing plants by mode and shipment type (as well as assessments of the quality of transportation services provided), and information on commercial trucking in North Dakota, including the sizes of firms, the commodities hauled, the types of equipment used, equipment ages and utilization rates, fuel consumption rates, and other information. In addition to this detailed information, the reports will include assessments of the transportation challenges and needs facing each sector. The reports will provide the Departments of Transportation, Agriculture, and Commerce (and other agencies) with critical planning information.

Details of Request This request (which was initially for \$408,134 in base funding) was approved by the North Dakota Board of Higher Education and UGPTI’s Advisory Council. However, it was not included in the Executive Recommendation. The House of Representatives decided to fund the program, but not at the level initially requested, reducing the funding level to \$300,000. This funding level will allow for the establishment of the program and for most of the surveys and reports to be undertaken.

UGPTI’s Role and Statutory Responsibility UGPTI is the ideal agency for this effort, as UGPTI can: (1) offer individuals and companies confidentiality of the raw data they provide, (2) combine the data collected by the new surveys with existing data to provide a comprehensive picture of freight transportation and logistics in the State, and (3) serve State agencies and the Legislature by providing them with tailored reports and information each biennium. The request will allow UGPTI to better fulfil its statutory responsibilities to study “commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services.”

Multimodal Transportation System for Captured Carbon Dioxide

Public Interest As stated in N.D.C.C. 38-22-1, “it is in the public interest to promote the geologic storage of carbon dioxide. Doing so will benefit the state and the global environment by reducing greenhouse gas emissions.” Governor Burgum’s vision is for North Dakota to lead the nation in carbon capture, utilization, and storage (CCUS) and achieve carbon neutrality by 2030. CO₂ has many industrial uses—including enhanced oil recovery—that could spur economic growth and productivity in the state.

Need for Transportation Study North Dakota has the capacity to safely store much of the nation’s carbon dioxide output for years to come. However, leading the nation in CCUS (while meeting the demands of industry for carbon dioxide) will require the movement of substantial quantities of CO₂ into the state. Many miles of new pipeline will be needed, not only in North Dakota but in the surrounding region. Other modes of transportation (especially railroads) will also be needed to move CO₂ into North Dakota from dispersed sources and serve CO₂ hubs and sequestration centers in the State. In many respects, a strategic CO₂ transportation plan is needed to support the State’s vision,

Need for Multimodal Options Pipelines can best serve large installations connected by a trunk-line network. However, many potential sources of CO₂ are not served by pipeline, and it is not economically feasible to connect all CO₂ generators to a trunk pipeline network. Most of these facilities, however, are already being served by rail. According to the Association of American Railroads (AAR), about 12,000 shipments of CO₂ are transported by railroads in the United States each year in specially designed tank cars. According to AAR, “railroads are interested in working with the Department of Energy to explore opportunities to transport captured carbon dioxide.” Because the railroad network is already in place, the acquisition of

new right-of-way across farmland and the exercise of eminent domain would not be needed to start transporting CO₂.

*Study
Plan*

A strategic vision for a multimodal CO₂ transportation system that includes pipeline, railroad, and local delivery options is needed. The purpose of this one-time funding request is to conduct such a study and develop proposals for federal funding. In this effort, UGPTI will collaborate with pipeline operators, Class I and regional railroads, logistics and transload companies, potential supply-chain partners, and state agencies, including the Departments of Agriculture, Commerce, and Transportation and the Oil and Gas Division. The project will result in assessments of:

*Key
Study
Components*

- The potential for a multimodal (pipeline and railroad) transportation system to transport CO₂ into and within North Dakota, including:
 - Key connector and feeder pipelines that would allow more CO₂ to flow into North Dakota from the surrounding region
 - A rail CO₂ network that would allow the movement of shipments from dispersed locations around the nation into the state.
- The need for transloading and temporary storage facilities and integrated multipurpose hubs through which CO₂ could be moved, originated, or terminated.
- Potential suppliers of substantial quantities of CO₂ outside of North Dakota that do not have pipeline connections but which have railroad service and could, therefore, start shipping CO₂ into the state immediately.
- The need for possible spur tracks within North Dakota, that would allow railroads to directly serve hubs and distributions centers where direct connections to Class I railroads do not exist.
- The railcar fleet (which is privately owned) and must be expanded to move substantial quantities of CO₂ by rail.

Chairman Bekkedahl and members of the Senate Appropriations Committee,

My name is Jacob Odermann, I am the chair of the NDSU Dickinson Research Extension Center's Advisory Board. My wife AJ and I along with our four children ranch with my parents north of Belfield in Billings county. We are the 4th generation of Odermann's to ranch in North Dakota. I grew up in a house that Senator Greg Kessel's father built.

Our farm has been directly affected in a positive way by applying the research findings of individuals at our local RECs. For over two decades we have applied Dr. Lee Mansky's twice over grazing rotation program which has done wonders for our soil health while also increasing our carrying capacity.

Farmers in our region desperately need a research agronomist stationed at the Dickinson Research Extension Center. Farmers would benefit greatly from having an individual in this position who will focus on current and emerging issues in our challenging environment. Solutions to growing new crops, disease management, forage production, weed control, and more will be explored. The data gathered from Dickinson will be shared with farmers who will put that science into action and benefit greatly from your support.

A Dickinson Research Extension Center Research Agronomist went through the SBARE process and is listed under the Plant Production and Protection Initiative which happens to be the Ag Experiment Station's #1 legislative priority. During the summer of 2021, DREC director, Chris Augustin held a survey to help guide the center. The results from this survey indicated a research agronomist is the most needed position. Please consider the Dickinson research agronomist and how impactful this person will be to southwest North Dakota and it's farmers and ranchers.

**North Dakota State University
Upper Great Plains Transportation Institute
Agency 627
Denver Tolliver, Director**

2023-2025 Biennial Budget Request

**Presented to:
The Senate Appropriations Committee**

March 2, 2023

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Programs, Centers, and Focus Areas***

- | | |
|-------------------------------------|------------------------------------|
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N.D.C.C
54-53-02

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Administration
N.D.C.C
54-53-01

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Current Biennium	\$660.35	\$557.10	\$139.42	\$1,356.87
Avg. Biennial	\$654.57	\$324.88	\$71.56	\$1,051.00

<i>Road & Bridge Asset Management</i>	With its general fund appropriation, UGPTI is improving the Geographic Roadway Inventory Tool (GRIT), which stores and displays information on road surface type, current condition, shoulder width, subgrade strength, and other design features, as well as traffic, construction history, and improvement plans. A pavement condition forecasting procedure is included in GRIT that allows counties to project conditions of roads for up to 35 years. Recent enhancements include the incorporation of emergency-related projects such as flooding (so the public can see where roads are closed), a load restriction web-map linked to the NDDOT’s Traveler Information Map that allows truckers to view state and local road restrictions on one web-based map, and an inventory and map of bridges and minor structures.
<i>Tribal Technical Assistance Program Center</i>	UGPTI was selected by Federal Highway Administration as the home of the Northern Region TTAP Center, with funding of \$300,000 per year with potential options for additional funding. TTAP Vision: to enhance the quality of life in Tribal communities by building capacity for Tribes to administer and manage their transportation programs and systems. The mission is to “serve as a go-to local resource for Tribal transportation training, technical assistance, and technology transfer needs and opportunities. The awarding of this center is a recognition of UGPTI’s past and on-going efforts and a great tool for leveraging partnerships and resources.

One-Time Funding

<i>Funding Amount and Source</i>	The Legislature provided UGPTI with \$225,000 in one-time funding from the strategic investment and improvements fund to be matched by at least that amount in federal funds. The funds have been used as match for \$336,000 in Federal grant funds (which require a dollar-for-dollar match). The federal funding extends through the end of Federal FY 2023. Two on-going project reports will be completed by then.
<i>Remote Sensing using Drones and AI</i>	These research results will inform stakeholders about appropriate types of drone and sensor payloads, as a function of the types of transportation assets being inspected. The research will describe the downstream data processing and model building required using artificial intelligence. The findings will support broad initiatives within North Dakota to expand remote sensing applications that can utilize the statewide deployment of a beyond visual line of sight (BVLOS) network.
<i>Autonomous Aircraft Logistics</i>	Technological advancements in energy storage, capacity, computing, communications, and lightweight structural materials promise to reduce the cost, size, noise, and risks of drone vehicle operations, making them potentially competitive with trucks for certain movements. This research will develop a better understanding of the opportunities that may exist for companies in the regions and challenges to deployment, including how drone deliveries fit into the overall logistics process.
<i>Audits</i>	A team from the Office of the State Auditor audited UGPTI’s financial transactions and expenditures for the biennium that ended June 30, 2021. The audit did not identify any areas of concern. This was the only audit of UGPTI during the biennium.

UGPTI Funding Sources

Special Funds

UGPTI does not operate facilities or assess fees that generate revenue on a continuous basis. Rather, UGPTI's special funds appropriation request represents the authority to collect grants and contracts from state and local agencies and private industries. Most of UGPTI's special funds originate from the North Dakota Department of Transportation under a strategic agency partnership that has benefited North Dakota for the last four decades. The ND Wheat Commission and several metropolitan planning organizations (MPOs) are the other regular providers of grant funding in addition to the NDDOT. There is uncertainty in the levels of these grants and contracts that will be received during any biennium.

Federal Funds

The federal fund request represents a ceiling for UGPTI's federal grant collections. It is the agency's best projection of the authority needed to procure all grants that may become available during the biennium. The vast majority originates from the U.S. Department of Transportation (U.S. DOT), including grants from the Office of the Secretary, Federal Highway Administration, Federal Transit Administration, Federal Motor Carrier Safety Administration, and the National Highway Traffic and Safety Administration. Some grants (such as the University Transportation Center grant) are provided directly to UGPTI by federal agencies. In other cases, the funds are "federal source funds" provided by third parties through the federal procurement process. Although federal funds are important to UGPTI's budget, they have pre-determined uses. Ultimately, UGPTI has limited discretion in determining which critical issues are researched with federal funds. Federal research funds (although very important) are not a substitute for state research dollars.

General Funds

Although state general funds comprise a minor portion of UGPTI's overall budget, they are essential to the agency's success and sustainability. State general funds are needed to match federal grants and provide continuity in times of delay or disruption in federal funding. Many of UGPTI's direct grants (such as the University Transportation Centers grant) require a 100% match of non-federal source funds. UGPTI's general funds are the only dependable source of match for these funds. Moreover, general funds are the only hard dollars in UGPTI's budget. Federal and special funds are provided at the discretion of intermediate agencies and third parties and are subject to the budget limits placed on these agencies.

UGPTI Budget Requests

As shown in Table 1, the House increased UGPTI's general fund budget from \$4,485,607 to \$5,427,961. UGPTI's federal and special fund appropriations (which are shown as estimated income) were also increased in HB 1020. UGPTI's full-time equivalent positions have not been adjusted for the last several biennia and remain at 43.88 FTE.

Table 1. Budget Request as Approved by the House of Representatives

Item	Base Level	Enhancements	Appropriation
Total all funds	\$23,527,957	\$2,000,375	\$25,528,332
Less estimated income	\$19,042,350	\$1,058,021	\$20,100,371
Total general fund	\$4,485,607	\$942,354	\$5,427,961
Full-time equivalent positions	43.88	0	43.88

As shown in Table 2, UGPTI's base-level general fund appropriation was increased by a total of \$543,904 by the House of Representatives. Of this total, \$243,904 are targeted for salary and benefit increases. The remaining \$300,000 are meant for a new freight transportation and logistics program, which is described below.

Table 2. Adjustments to Appropriations in HB 1020

Item	Base Level	One-Time
Salary & Benefit Increases	\$243,904	
Freight Transportation & Logistics Program	\$300,000	
Multimodal CO ₂ Transportation Study	\$0	\$398,450
Total Adjustments	\$543,904	\$398,450
<i>Source</i>	General Funds	Special Funds

In addition to the \$543,904 increase in base funding, the House of Representatives appropriated \$398,450 of one-time funding for a Multimodal CO₂ Transportation Study, which is also described below. The increase of \$1,058,021 in estimated income shown in Table 1 includes \$423,600 in one-time special funds that would be allocated from the Strategic Investment and Improvements Fund to establish a Transportation Data Intelligence Center. The remainder of the \$1,058,021 enhancement in estimated income consists of authorizations to collect additional grant and contract funds to cover the portion of the salary and benefit package that is not funded from general funds.

Transportation Data Intelligence Center

Request

This request, which was included in the Executive Recommendation and approved by the North Dakota Board of Higher Education and UGPTI's Advisory Council, is for \$432,600 of one-time funding to repurpose and equip a room in the Quentin Burdick Building at North Dakota State University to receive, process, archive, and analyze data from field sensors, vehicles, and many other sources. The Transportation Data Intelligence Center will enable UGPTI to perform advanced data analytics, develop artificial intelligence solutions and tools, contribute timely transportation information to travelers and service providers, and train students in artificial intelligence and automation.

Benefits to the State

This one-time investment will support the deployment of advanced transportation technologies that enable safe and efficient travel, as well as facilitate future research which will benefit the State for years to come. The programs made possible by this one-time investment will enable data-driven transportation decision-making through the availability of timely information

and online tools and it will enhance UGPTI's capability to compete for federal grants in the field of advanced transportation technologies, partner with private entities, and support the training of future workers in artificial intelligence and advanced transportation technologies

*Functions
and
Roles*

The Transportation Data Intelligence Center will receive data from a variety of field sensors (e.g., roadway environmental sensors, traffic counters, vehicles classification sites, speed, and weigh-in-motion sensors), cameras, UAVs, and (ultimately) vehicles; process, temporarily store, and archive the data; mine and analyze the data using machine and deep learning algorithms written specifically for the tasks; provide near real-time data feeds of road and traffic conditions; and consolidate and analyze the field data needed for roadway and bridge asset management. The Center will support State initiatives such as the Transportation Management Center, as well as the deployment of advanced technologies (such as connected vehicle technologies).

Details

Specifically, the funding will be used to repurpose and equip a room in the Quentin Burdick Building, including remodeling expenses, computer workstations for staff and students, monitors to display field and traffic data, mini supercomputer to process large incoming data streams and run computationally intensive data mining and machine learning algorithms, servers to store and archive large data streams, and supporting telecom equipment.

Freight Transportation & Logistics Biennial Surveys and Reports

*Background
and Needs*

North Dakota's economy is dependent on freight transportation and logistics services. Transportation and supply-chain bottlenecks and breakdowns have major impacts on producers and industries. The Legislature and State agencies need comprehensive and current information to monitor rapidly changing industry activity levels and logistics patterns and identify trends, issues, and needs in a proactive manner. UGPTI currently analyzes and publishes shipment data from elevators to markets. However, this report covers only a portion of the supply chain and does not include information on farm-to-elevator, farm-to-processing plant, and elevator-to-processing plant movements or manufactured goods.

*Benefits
to the
State*

If this request is funded, UGPTI will conduct surveys and publish reports each biennium about the transportation patterns and needs of agricultural processors, shipments from farms to elevators, inbound and outbound shipments to and from manufacturing plants by mode and shipment type (as well as assessments of the quality of transportation services provided), and information on commercial trucking in North Dakota, including the sizes of firms, the commodities hauled, the types of equipment used, equipment ages and utilization rates, fuel consumption rates, and other information. In addition to this detailed information, the reports will include assessments of the transportation challenges and needs facing each sector. The reports will provide the Departments of Transportation, Agriculture, and Commerce (and other agencies) with critical planning information.

Details of Request This request (which was initially for \$408,134 in base funding) was approved by the North Dakota Board of Higher Education and UGPTI's Advisory Council. However, it was not included in the Executive Recommendation. The House of Representatives decided to fund the program, but not at the level initially requested, reducing the funding level to \$300,000. This funding level will allow for the establishment of the program and for most of the surveys and reports to be undertaken.

UGPTI's Role and Statutory Responsibility UGPTI is the ideal agency for this effort, as UGPTI can: (1) offer individuals and companies confidentiality of the raw data they provide, (2) combine the data collected by the new surveys with existing data to provide a comprehensive picture of freight transportation and logistics in the State, and (3) serve State agencies and the Legislature by providing them with tailored reports and information each biennium. The request will allow UGPTI to better fulfil its statutory responsibilities to study "commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services."

Multimodal Transportation System for Captured Carbon Dioxide

Public Interest As stated in N.D.C.C. 38-22-1, "it is in the public interest to promote the geologic storage of carbon dioxide. Doing so will benefit the state and the global environment by reducing greenhouse gas emissions." Governor Burgum's vision is for North Dakota to lead the nation in carbon capture, utilization, and storage (CCUS) and achieve carbon neutrality by 2030. CO₂ has many industrial uses—including enhanced oil recovery—that could spur economic growth and productivity in the state.

Need for Transportation Study North Dakota has the capacity to safely store much of the nation's carbon dioxide output for years to come. However, leading the nation in CCUS (while meeting the demands of industry for carbon dioxide) will require the movement of substantial quantities of CO₂ into the state. Many miles of new pipeline will be needed, not only in North Dakota but in the surrounding region. Other modes of transportation (especially railroads) will also be needed to move CO₂ into North Dakota from dispersed sources and serve CO₂ hubs and sequestration centers in the State. In many respects, a strategic CO₂ transportation plan is needed to support the State's vision,

Need for Multimodal Options Pipelines can best serve large installations connected by a trunk-line network. However, many potential sources of CO₂ are not served by pipeline, and it is not economically feasible to connect all CO₂ generators to a trunk pipeline network. Most of these facilities, however, are already being served by rail. According to the Association of American Railroads (AAR), about 12,000 shipments of CO₂ are transported by railroads in the United States each year in specially designed tank cars. According to AAR, "railroads are interested in working with the Department of Energy to explore opportunities to transport captured carbon dioxide." Because the railroad network is already in place, the acquisition of

new right-of-way across farmland and the exercise of eminent domain would not be needed to start transporting CO₂.

*Study
Plan*

A strategic vision for a multimodal CO₂ transportation system that includes pipeline, railroad, and local delivery options is needed. The purpose of this one-time funding request is to conduct such a study and develop proposals for federal funding. In this effort, UGPTI will collaborate with pipeline operators, Class I and regional railroads, logistics and transload companies, potential supply-chain partners, and state agencies, including the Departments of Agriculture, Commerce, and Transportation and the Oil and Gas Division. The project will result in assessments of:

*Key
Study
Components*

- The potential for a multimodal (pipeline and railroad) transportation system to transport CO₂ into and within North Dakota, including:
 - Key connector and feeder pipelines that would allow more CO₂ to flow into North Dakota from the surrounding region
 - A rail CO₂ network that would allow the movement of shipments from dispersed locations around the nation into the state.
- The need for transloading and temporary storage facilities and integrated multipurpose hubs through which CO₂ could be moved, originated, or terminated.
- Potential suppliers of substantial quantities of CO₂ outside of North Dakota that do not have pipeline connections but which have railroad service and could, therefore, start shipping CO₂ into the state immediately.
- The need for possible spur tracks within North Dakota, that would allow railroads to directly serve hubs and distributions centers where direct connections to Class I railroads do not exist.
- The railcar fleet (which is privately owned) and must be expanded to move substantial quantities of CO₂ by rail.

NDSU Upper Great Plains Transportation Institute 2023-2025 Budget Request: Summary

Purpose (N.D.C.C 54-53-03): “Conduct and supervise research in the field of transportation and logistics in order to facilitate acquisition of a wider knowledge and understanding of marketing factors associated with the geographical location of the state of North Dakota and the upper great plains in the field of transportation and their influence on the socioeconomic systems of the state, region, and country.” UGPTI’s research areas “must include the study of commodity and other freight movements into and out of the state in order to better know and understand the various factors affecting the marketing of area products and services.”

Administration (N.D.C.C 54-53-01: Administered by and in conjunction with NDSU.

Advisory Council (N.D.C.C 54-53-02): Consult with the Institute in matters of policy and “in the development of transportation in the state of North Dakota.”

Programs, Centers, and Focus Areas

- | | |
|-------------------------------------|------------------------------------|
| ▪ Advanced Traffic Analysis | ▪ DOT Support Center |
| ▪ ND Local Technical Assistance | ▪ Tribal Technical Assistance |
| ▪ Western ND Transportation Liaison | ▪ Commercial Vehicle Safety |
| ▪ Small Urban & Rural Mobility | ▪ Transportation Safety & Security |
| ▪ Road & Bridge Needs Assessment | ▪ Agricultural Freight |
| ▪ Mountain-Plains Consortium | ▪ Transportation Learning Network |
| ▪ Advanced Technologies | ▪ Grade Crossing Safety |

Biennial Road and Bridge Needs Assessment. The study included 71,808 miles of county, township, and tribal road, including 5,843 miles of paved county road and 56,656 miles of gravel road, and entailed traffic data collection and road surface condition assessments for more than 2,750 miles of paved county road. A survey was administered to each county to determine blading and gaveling practices, the sources and costs of gravel, and other cost factors needed for the unpaved portion of the road analysis. In addition, the current conditions of 2,336 bridges on county roads were assessed.

Road & Bridge Asset Management Program: Stores and displays information on road surface type, current condition, shoulder width, subgrade strength, and other design features, as well as traffic, construction history, and improvement plans. A pavement condition forecasting procedure allows counties to project conditions of roads for up to 35 years. Recent enhancements include the incorporation of emergency-related projects such as flooding (so the public can see where roads are closed), a load restriction web-map linked to the NDDOT’s Traveler Information Map that allows truckers to view state and local road restrictions on one web-based map, and an inventory and map of bridges and minor structures.

Tribal Technical Assistance Program Center: Selected by Federal Highway Administration as the Northern Region Center.

One-Time Funding: The \$225,000 in one-time funding provided by the Legislature has been used to leverage \$336,000 in Federal grants for research projects that lay the groundwork for artificial intelligence solutions based on remote sensing data collected from drones, assess the potential for growth in freight deliveries by drones, and examine autonomous aircraft logistics.

Budget as Approved by House of Representatives

As shown in Table 1, the House increased UGPTI’s general fund budget from \$4,485,607 to \$5,427,961. UGPTI’s federal and special fund appropriations (which are shown as estimated income) were also increased in HB 1020. UGPTI’s full-time equivalent positions have not been adjusted for the last several biennia and remain at 43.88 FTE.

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As shown in Table 2, UGPTI's base-level general fund appropriation was increased by a total of \$543,904 by the House of Representatives. Of this total, \$243,904 are targeted for salary and benefit increases. The remaining \$300,000 are meant for a new freight transportation and logistics program.

Table 2. Adjustments to Appropriations in HB 1020

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Multimodal CO ₂ Transportation Study	\$0	\$398,450
Total Adjustments	\$543,904	\$398,450
<i>Source</i>	<i>General Funds</i>	<i>Special Funds</i>

In addition to the \$543,904 increase in base funding, the House of Representatives appropriated \$398,450 of one-time funding for a Multimodal CO₂ Transportation Study. In addition, the increase of \$1,058,021 in estimated income shown in Table 1 includes \$423,600 of one-time special funds from the Strategic Investment and Improvements Fund to establish a **Transportation Data Intelligence Center**. The funds would allow UGPTI to repurpose and equip a room to receive, process, archive, and analyze data from field sensors, vehicles, and many other sources. With the Transportation Data Intelligence Center, UGPTI can perform advanced data analytics, develop artificial intelligence solutions and tools, contribute timely transportation information to travelers and service providers, train students in artificial intelligence and automation, and compete more effectively for federal funds.

The **Freight Transportation & Logistics Program** would allow UGPTI to conduct surveys and publish reports each biennium about the transportation patterns and needs of agricultural processors, shipments from farms to elevators; inbound and outbound shipments to and from manufacturing plants by mode and shipment type, as well as assessments of the quality of transportation services provided; and information on commercial trucking in North Dakota. In addition to this detailed information, the reports would include assessments of the transportation challenges and needs facing each sector.

Multimodal CO₂ Transportation Study. This one-time request of \$398,450 would fund a multimodal study of CO₂ transportation options, including pipeline, railroad, and local delivery options. In this effort, UGPTI would collaborate with pipeline operators, Class I and regional railroads, logistics and transload companies, potential supply-chain partners, and state agencies, including the Departments of Agriculture, Commerce, and Transportation and the Oil and Gas Division. The study would include analysis of key connector and feeder pipelines that would allow more CO₂ to flow into North Dakota from the surrounding region, a rail CO₂ network that would allow the movement of shipments from dispersed locations around the nation into the state, and transloading/temporary storage facilities and integrated multipurpose hubs through which CO₂ could be moved, originated, or terminated. Potential suppliers of substantial quantities of CO₂ outside of North Dakota that do not have pipeline connections but which have railroad service will be identified in the study, as these suppliers could start shipping CO₂ into the state immediately.



Upper Great Plains Transportation Institute, North Dakota State University, Fargo • 701.231.7767 • www.ugpti.org October 2021

Mission: Providing innovative transportation research, education, and outreach that promote the safe and efficient movement of people and goods.

- Research – Conducting applied and advanced research in highway, transit, rail, air, and waterway transportation that addresses the critical issues of the state, region, and nation.
- Education – Educating the transportation workforce of tomorrow through multidisciplinary curricula that focus on transportation economics, management, infrastructure planning, mobility, and supply chain logistics.
- Outreach – Improving the skills and knowledge of the existing workforce through training, technical assistance, and the transfer of research results to practitioners.

The UGPTI was created in 1967 at NDSU by the North Dakota Legislature. It now has an annual budget of more than \$11.6 million. Approximately 40 staff on campus at NDSU in Fargo and in Bismarck. The UGPTI also engages about 100 graduate and undergraduate students in its programs.

Director Denver Tolliver, (701) 231-7767, www.ugpti.org • Email: denver.tolliver@ndsu.edu

PROGRAM AREAS

ESTABLISHED PROGRAMS WITHIN UGPTI WITH DEDICATED FUNDING AND EXPERTISE.

Advanced Traffic Analysis Center (ATAC) collects and analyzes traffic data to support decision makers who plan, operate, and fund transportation systems at the local, regional, and state level. Primary areas of work include intelligent transportation systems, traffic operations, and metropolitan transportation planning and travel demand modeling.

Contact: Bradley Wentz, (701) 231-7230, www.atacenter.org • Email: bradley.wentz@ndsu.edu

Center for Surface Mobility Applications and Real-time Simulation environments (SMARTSe) applies advancements in sensing, wireless communications, mobile computing, data science, and cybersecurity to advance multimodal and intermodal transportation system efficiencies, responsiveness, reliability, sustainability, safety, and security.

Contact: Raj Bridgelall, (408) 607-3214, www.ugpti.org/smartse/ • Email: raj.bridgelall@ndsu.edu

Commercial Vehicle Safety Center (CVSC) is a point of contact for universities, law enforcement, and driver licensing agencies looking to establish partnerships to improve commercial vehicle safety. CVSC sponsors webinars and provides resources in addition to conducting research and analysis. Research focuses on analyses intended to identify unsafe commercial vehicles, drivers, and companies, as well as streamlined methods to provide this information to state and federal safety enforcement specialists.

Contact: Brenda Lantz, (303) 871-7773, www.ugpti.org/outreach/cvsc/ • Email: brenda.lantz@ndsu.edu

DOT Support Center (DOTSC) provides engineering design assistance and transportation information technology support to transportation managers to ensure the safe and efficient movement of people and goods. Undergraduate engineering students in the center work under the direction of DOT engineers to prepare plans, estimates, and studies for real world projects. Computer science students provide IT support and assist staff in the development of applications such as a local road surface selection tool, the online ND Truck Weight Calculator, and the Geographic Roadway Inventory Tool (GRIT).

Contact: Bradley Wentz, (701) 231-7230, www.ugpti.org/dotsc/ • Email: bradley.wentz@ndsu.edu

Mountain-Plains Consortium (MPC) conducts research, education, and technology transfer related to transportation challenges and opportunities in the Upper Great Plains and Intermountain West. NDSU, via UGPTI, is the lead university in this eight-university consortium. MPC is a competitively selected University Transportation Center sponsored by the USDOT.

Contact: Denver Tolliver, (701) 231-7190, www.mountain-plains.org • Email: denver.tolliver@ndsu.edu

ND Local Technical Assistance Program (NDLTAP) fosters safe, efficient, environmentally sound and cost effective highway, road, and street systems by exchanging technology with local units of government and the transportation community through training, technical assistance, and information services. Key areas for hands-on, online, and distance training include safety, gravel road management, construction topics, rural road maintenance, and asset management.

Contact: Dale Heglund, (701) 318-6893, www.ndltap.org • Email: dale.heglund@ndsu.edu

Rural Transportation Safety and Security Center (RTSSC) promotes and enhances the region's transportation safety and security through research, education, and outreach. Staff members conduct safety analyses to evaluate and guide local, state, and federal initiatives. RTSSC's research tracks trends in road safety factors, such as impaired drivers, youthful drivers, and occupant protection.

Contact: Kimberly Vachal, (701) 231-6425, www.ugpti.org/rtssc/ • Email: kimberly.vachal@ndsu.edu

Small Urban and Rural Center on Mobility (SURCOM) increases the mobility of small urban and rural residents in the United States and abroad through innovative research, education, training, and outreach. Key areas for training include leadership and management. Recent research has focused on mobility for those aging in place, estimating demand for intercity bus services, bike share impacts on transit, and mobility needs in rural communities.

Contact: Jill Hough, (701) 231-8082, www.ugpti.org/surcom/ • Email: jill.hough@ndsu.edu

Transportation Learning Network (TLN) supports safe and efficient transportation through a network of people and technology that serves members by enhancing communication, workforce development, education, professional development, technology transfer, and research. TLN initiatives focus on assuring that DOT employees and others in the transportation workforce are prepared to implement new technology, work safer, and complete technical tasks accurately and efficiently. TLN is a collaborative effort of MPC universities and participating DOTs.

Contact: Chris Padilla, (701) 202-5730, www.translearning.org • Email: chris.padilla@ndsu.edu

FOCUS AREAS

OFTEN INVOLVE EXPERTISE FROM MORE THAN ONE PROGRAM WORKING COLLABORATIVELY ON KEY TRANSPORTATION ISSUES.

Agricultural freight movements of bulk commodities, production inputs, and processed products are critical to the economic vitality of North Dakota and the surrounding region. UGPTI conducts economic inquiry, marketing studies, and policy analysis to improve the competitiveness of the region's producers and businesses.

Contact: Kimberly Vachal, (701) 231-6425 • Email: kimberly.vachal@ndsu.edu
or Alan Dybing, (701) 231-5988 • Email: alan.dybing@ndsu.edu

Rural traffic analysis involves the use of detailed rural travel demand models to forecast traffic volumes on North Dakota's road network, helping estimate the impact to state, county, and local roads due to energy development, changing agricultural production and marketing practices, and other factors that influence transportation patterns.

Contact: Alan Dybing, (701) 231-5988 • Email: alan.dybing@ndsu.edu

Transportation Management Center developed in cooperation with the ND Department of Transportation will demonstrate the value of a centralized traffic management center by monitoring and reporting roadway and weather conditions and traveler information 24/7. Initially, the center will use the existing statewide camera and sensor network while increasing sensor density in selected corridors. Plans call for integration of data sensors and the development artificial intelligence/machine learning models to process traffic volume, speeds, road conditions, and incidents in real-time from the vast amount of video sensors across the State.

Contact: Bradley Wentz, (701) 231-7230 • Email: bradley.wentz@ndsu.edu

Transportation Infrastructure and Safety research focuses on preserving and better utilizing the existing transportation infrastructure. A focal point is traffic and infrastructure condition monitoring via improved low-cost sensor technologies. Additional work focuses on providing a decision support system for preserving and improving infrastructure by advancing predictive modeling performance via advanced statistical modeling or machine-learning/deep-learning techniques. Potential applications include enhancing safety at highway-rail grade crossings and improving safety related to other elements of road and railroad infrastructure.

Contact: Pan Lu, (701) 212-3795 • Email: pan.lu@ndsu.edu

Township Transportation Funding Program will coordinate the work of assisting single and multiple townships to advance an integrated local transportation system through leveraged funding to advance and improve the movement of agriculture, energy, and commerce throughout the state. A major part of the effort is to seek grants in partnership with the ND Department of Transportation to match a \$10 million appropriation by the ND Legislature.

Contact: Tim Horner, (701) 391-9787 • Email: timothy.horner@ndsu.edu

Tribal Outreach focuses on improving safe transportation of people and goods on tribal reservations to enhance livability, community, and cultural values through increased accessibility to employment, workforce development opportunities, education, healthcare, and housing.

Contact: Joy Annette (701) 231-8301 • Email: joy.annette@ndsu.edu





Budget and Activity Report

February 2023

Ken Bertsch, ND State Seed Commissioner

Mr. Chairman and members of the Appropriations Committees: For the record, my name is Ken Bertsch and I serve as State Seed Commissioner and Administrator of the State Seed Department. I appreciate the opportunity to present, on behalf of the State Seed Commission, a report to the committee on activities of the ND State Seed Department.

This report is an overview of agency activities as required by NDCC Chapter 4.1-52-11. Legislative Council, with the advice of committee chairmen, asked that this report be presented in written form.

Department Activities

The North Dakota State Seed Department (NDSSD) is the state-designated authority for seed certification, seed regulatory and laboratory testing services to North Dakota producers and the agriculture industry. As a self-funded/special funds agency of government, the ND State Seed Department derives its revenues from fees for services provided.

A nine-member commission, which serves as a board of directors by setting policy guidelines, approving budgets, approving major program changes, and appointing the Seed Commissioner, governs the Department. The Seed Commission is comprised of members from various industries the Department serves, and represents a broad cross-section of agricultural commodities grown in this state and region.

The Department is unique among its counterparts in the United States, in that all seed related matters are accomplished by one entity. In other states, seed certification is often performed by private associations and/or university programs. Seed regulatory enforcement is usually the responsibility of a division of the state department of agriculture.

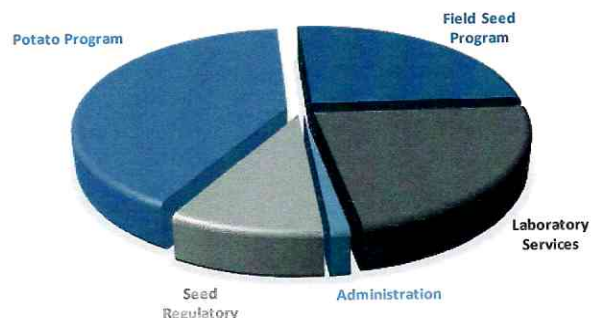
The NDSSD is one of only two programs in the nation that certifies all field crops and potatoes, and the only program performing seed regulatory duties along with seed certification and testing.

The agency's main offices, laboratories and tissue culture/greenhouse are located in Fargo on the campus of North Dakota State University. A regional office is located in Grafton and is primarily associated with potato certification programs. 20-22 FTE's and

30-40 temporary/seasonal staff provides field and crop inspection, laboratory testing, potato seed production and support services to the industry.

The NDSSD operates five major programs: Administration, Seed Regulatory, Field Seed Certification, Potato Certification and Laboratory Services. The current salary and operating budgets for these program areas is shown below:

Administration	\$ 46,500
Seed Regulatory	357,737
Potato Program	1,477,713
Field Seed Program	917,970
Laboratory Services	832,040
Total	\$ 3,631,960



Administration (NDCC Chapter 4.1-52)

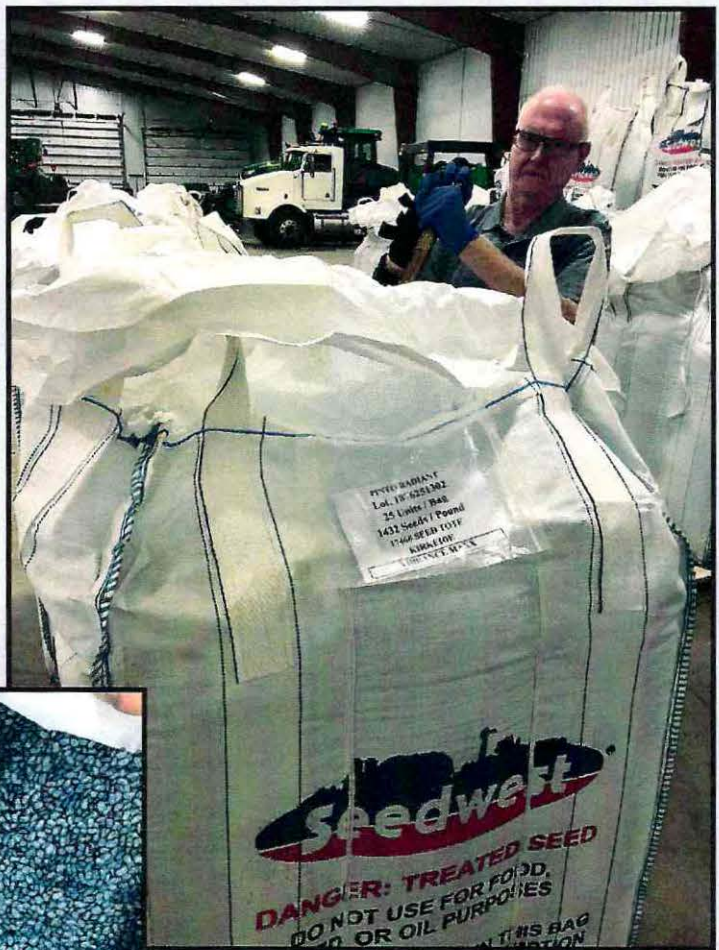
The Administration program line item denotes overall program support for legal, fiscal, technology, equipment, facilities and resource management for the agency. Administrative and support services salaries are allocated across program operation areas of the Department.

Seed Regulatory (NDCC Chapter 4.1-53)

The Regulatory program enforces state and federal seed laws through a process of sampling and examination of seed lots offered for sale throughout the state. The NDSSD utilizes full and part-time inspectors to obtain samples from facilities throughout the state, which are subsequently tested in NDSSD laboratories to determine accuracy of label claims and compliance with state and federal labeling requirements.

Seed Department regulatory, certification and laboratory staff work across program lines to ensure the integrity and quality of seed marketed in the state. A range of 1000-2000 regulatory samples are normally acquired by regulatory staff and tested in our laboratories on an annual basis. This number has been reduced to 800-1200 samples in the 2020 and 2022 regulatory seasons due to COVID and staffing issues.

Additionally, Department personnel work closely with public institutions and private variety owners to protect intellectual property through enforcement of Plant Variety Protection Act (PVPA).



Regulatory sampling of treated pinto beans

Field Seed Certification (Authority, NDCC Chapter 4.1-53)

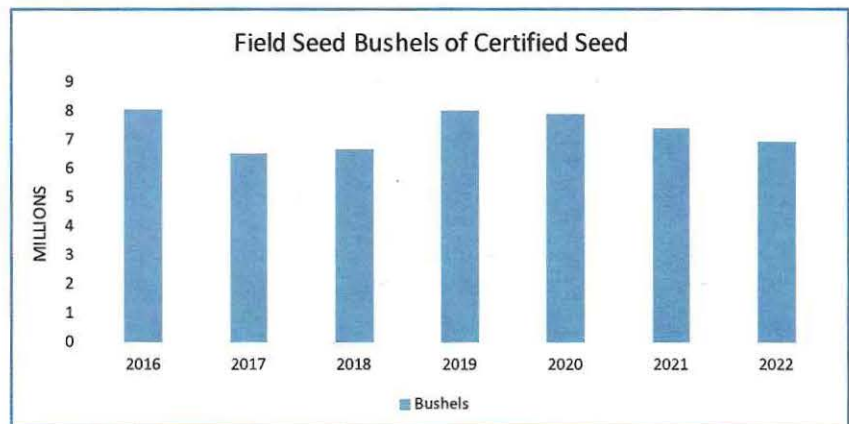
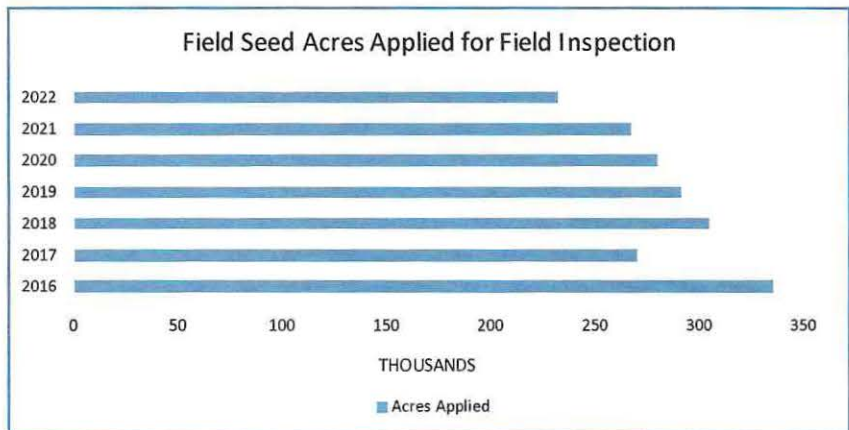
The NDSSD serves as the state's designated authority for certification of all field crops including cereals, oilseeds, pulses and other specialty crops produced in North Dakota. Program staff (full-time and temporary) inspects, on average, over 250,000 acres of these crops for over 500 individual producers and dozens of seed companies. Seed fields are inspected visually under strict field standards for the presence of disease, genetic purity and other standards established by administrative rule for each crop.

The second part of seed certification requires that all certified seed samples are analyzed under standards set forth in administrative rule to determine final certification status. Approximately 7-8 million bushels of seed is approved for final certification in the state each year. The Department also provides inspection and certification of seed conditioning facilities statewide to ensure that varietal identity and purity of seed is maintained throughout the conditioning and handling process.

Our certification programs collaborate externally with partner organizations to maintain North Dakota's position as a leader in the industry. Field Seed program staff assumes leadership roles in the Association of Official Seed Certifying Agencies (AOSCA), which is the national/international governing body for seed certification, and affect seed certification and quality standards developed by the organization. The North Dakota Crop Improvement Association and NDSU breeding programs are high-profile and valuable in-state partners.

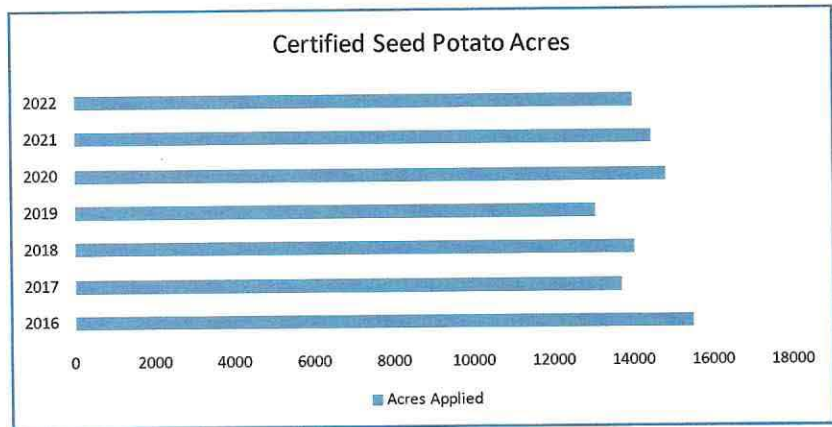
The Field Seed program also provides customized seed Quality Assurance, Identity Preserved and other inspection and audit programs for producers and seed companies.

The NDSSD Field Seed Program continues to hold its position as the largest field crop seed certification program of its kind in the United States.



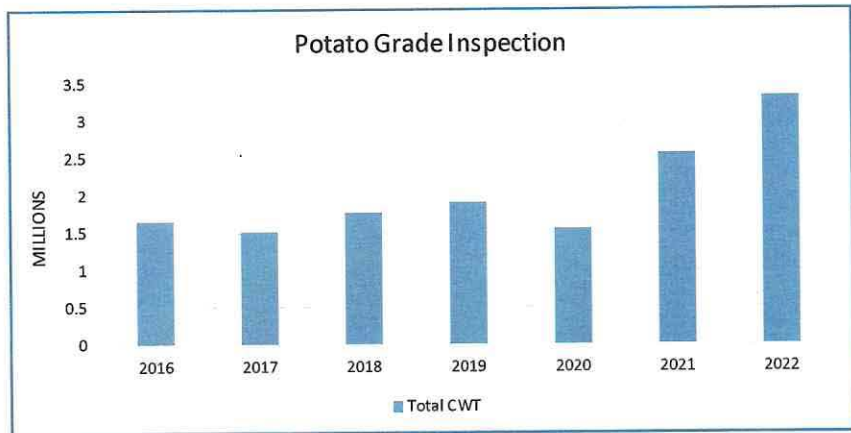
Potato Certification (NDCC Chapter 4.1-55)

The Potato Program is the state's designated authority for the certification of potato seed. NDSSD's six full-time staff inspects 13-15,000 acres of certified seed potatoes annually. Field inspection of potato is a more labor and training-intensive process by comparison to field crop inspection, and requires 2-3 years of training before inspectors may operate independently in the field visually inspecting growing seed crops for subtle varietal differences and disease symptoms.



Potato seed (as a perishable product) is prone to infection by numerous pathogens and diseases that impact seed quality, and ultimately lead to field or storage loss of commercial production. Potato seed production is high-risk at the grower level, and similarly high-risk in legal terms for the certification agent; hence the need for highly trained and experienced inspectors.

NDSSD also operates under a cooperative agreement with USDA to provide shipping point (grade) inspections of the physical quality of seed, commercial and tablestock potatoes at warehouses, processing and wash plants in many areas of the state. NDSSD inspects, on average, 175-200 million hundredweight of potatoes annually.



Committee members will note a large increase in cwt./inspected during the 2020-2022 period:

shipments to Canada of commercial potatoes used for production of french fries have increased tremendously during this period. Canadian regulations require that imported potatoes must be inspected to enter the country. As the USDA inspection authority for North Dakota, the NDSSD inspects these shipments and collects fees from the exporting entity (Simplot).

The NDSSD program continues to rank as the second-largest potato certification agency in the United States.

Potato Program personnel are actively involved at the national level with National Potato Council and United States Potato Board seed certification and seed export committees. Staff also works closely with North Dakota Certified Seed Potato Growers Association and Northern Plains Potato Growers Association to the benefit of seed growers and the seed industry. Additionally, program inspection staff cooperates with USDA and the ND Dept of Agriculture to provide soil inspections for Potato Cyst Nematode for seed crops being exported to Canada.

Potato and Lab Services personnel (lab technicians and tissue culture specialists) also produce first generation potato seed in our Fargo facility. The agency operates a tissue culture laboratory, where stem cuttings of potato plantlets are performed in a quarantine environment, multiplied and transferred to our on-site greenhouse for production of potato mini-tubers. Most of the commercial potatoes produced in North Dakota originate from tissue culture (in-vitro) performed in our facilities. The Department produces approximately 7500-8000 pounds of these high-value "mini-tubers" in two separate greenhouse crops each year.



The NDSSD tissue culture bank serves as the official repository for all potato varieties developed by the NDSU Potato Breeding Program and released by the NDSU Research Foundation. Our bank houses hundreds of other varieties and clones from around the U.S., which are used by ND seed potato growers to supply the state and regional potato industry.



Sterilizing tools



Cutting



Final product

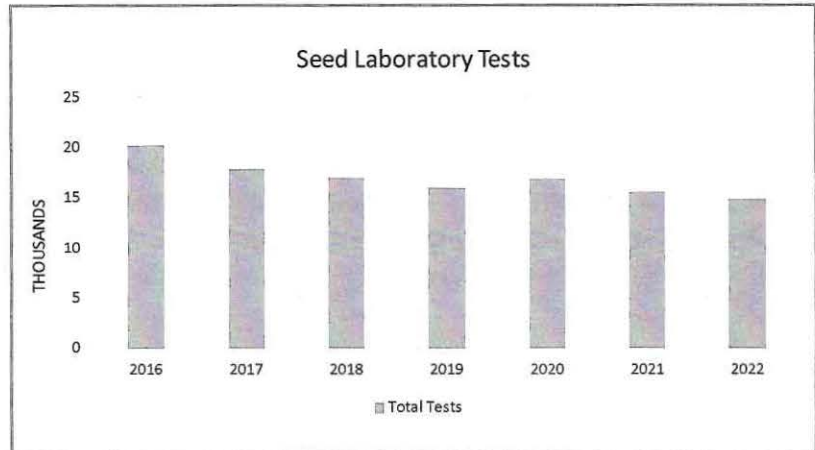
Lastly, the NDSSD operates a Wholesale Potato Dealers license program, which bonds and licenses approximately 35-40 wholesale potato dealers to ensure financial stability of businesses purchasing and selling potatoes in North Dakota. The authority for this licensing program is found in NDCC Chapter 4.1-57.

Laboratory Services

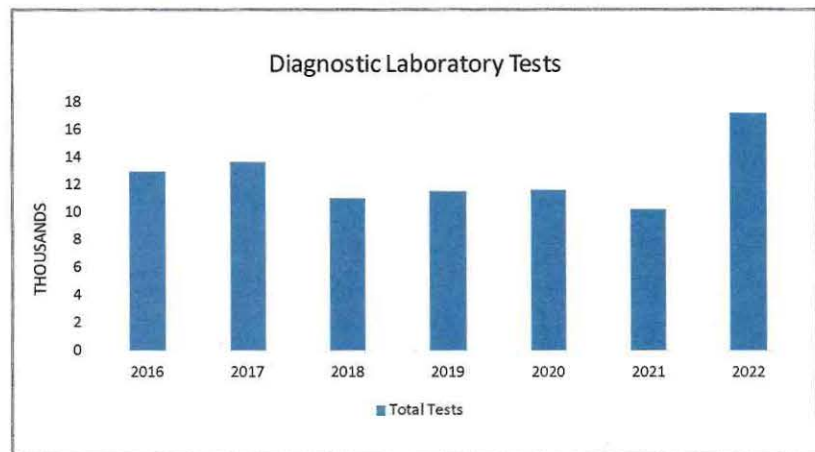
The NDSSD operates two separate laboratories, staffed by highly-trained seed analysts who perform testing on a wide range of seed quality issues.

The State Seed Laboratory performs 15-18,000 tests on samples submitted for final certification through the NDSSD certification program and service samples for growers requesting analysis for germination, purity, herbicide tolerance and several other quality factors. These tests are required in most cases for the final certification of cereal, soybean, edible bean, oilseed, grass and pulse crops. The seed laboratory also analyzes samples for the Regulatory program to determine conformance with labeling claims.

The seed laboratory is staffed by 4 full-time seed analysts who have, or are in the process of achieving, Registered or Certified Seed Analyst (RST, CSA) accreditation by the Society of Commercial Seed Technologists (SCST), Association of Official Seed Analysts (AOSA). The Seed Lab also utilizes several part-time employees, many of whom are students in agriculture programs at NDSU.



The Diagnostic Laboratory performs 2-3,000 tests annually on a diverse range of seed health, trait and genetic issues primarily on pulse crops and soybean. The diagnostic laboratory also provides a full range of disease and virus testing for potato certification and is the primary pathology support unit for the Potato Program. Leaf and sprout tests of potato plants and tubers number in a range of 6-8,000 per year. The diagnostic laboratory is staffed by one full-time and two half-time technicians and additional temporary (primarily student) employees.



The NDSSD Laboratory Services Program also performs service tests a large number of service samples coming here from Minnesota, South Dakota, Montana, Wyoming and Colorado.

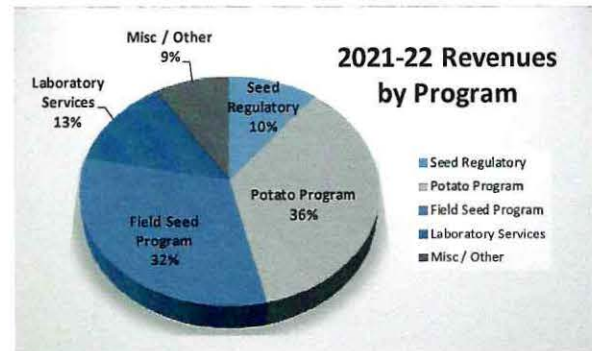
This is a brief outline of activities in the major program areas of the agency.

Thank you for the opportunity to report to the Committee. Please direct any questions on program, operating or fiscal issues to me and I will provide additional information or appear before the Committee at your request.

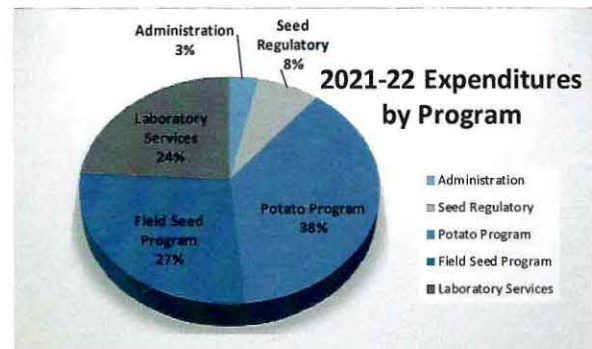
Statement of Revenues and Expenditures

With the passage of HB 1027 in the 2011 Session, the Legislature directed agency funds to be appropriated on a continuing basis and reported to the Appropriations Committees of the Legislature. The following information provides actual expenditures and revenue for the 2020-2021 and 2021-2022 fiscal years.

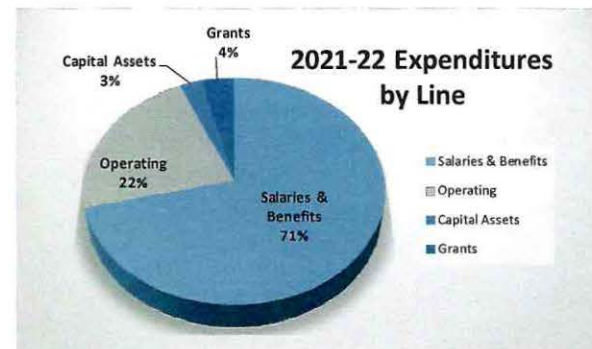
	2020-21	2021-22
Revenues by Program	Actual	Actual
Seed Regulatory	322,334	374,814
Potato Program	1,285,949	1,292,270
Field Seed Program	1,325,794	1,141,599
Laboratory Services	450,765	465,448
Misc / Other	365,599	317,180
Total	3,750,441	3,591,311



	2020-21	2021-22
Expenditures by Program	Actual	Actual
Administration	34,902	118,460
Seed Regulatory	278,857	259,618
Potato Program	1,295,066	1,328,620
Field Seed Program	1,022,712	962,684
Laboratory Services	733,601	848,729
Total	3,365,138	3,518,111



	2020-21	2021-22
Expenditures by Line	Actual	Actual
Salaries & Benefits	2,588,408	2,506,206
Operating	592,450	784,344
Capital Assets	0	95,840
Grants	184,280	131,721
Total	3,365,138	3,518,111



Design and layout by Sera Axtman.

House Bill 1020 Testimony

March 2, 2023

NDSU Extension and the North Dakota Agricultural Experiment Station

Greg Lardy, Director

Good afternoon Chairman Bekkedahl and members of the Senate Appropriations Committee.

My name is Greg Lardy, and I have the privilege of serving as the director of NDSU Extension and the North Dakota Agricultural Experiment Station. I am a native of Sentinel Butte, North Dakota where I grew up on a small grain farm and cattle ranch. I've had the privilege of serving the state of North Dakota and NDSU for 25 years.

As you know, NDSU Extension and the North Dakota Agricultural Experiment Station play direct and vital roles in the lives of North Dakotans. Together the agencies work hand in hand to develop research-based solutions to some of the greatest challenges affecting the state of North Dakota and deliver these solutions to the citizens of North Dakota through educational programming that reaches a diverse cadre of audiences. Thank you for your support of our base budget and the SBARE initiatives in 2021.

Scientists in the North Dakota Agricultural Experiment Station help identify new uses for agricultural commodities, enhance marketing opportunities, and bring local solutions to the state through our network of our seven Research Extension Centers that are located strategically throughout the state. At the same time, NDSU Extension partners with local county governments to create a network of offices across the state that deliver educational programs to North Dakota citizens.

In December, we released the results of a study that quantified the contributions of agriculture to the state's overall economy and the impact is significant. Agriculture contributes over \$30 billion annually to the state's economy. One in five jobs are directly tied to agriculture. The North Dakota Agricultural Experiment Station and NDSU Extension are vital partners in this economy and play important roles in helping out state's agricultural economy flourish.

SBARE's responsibilities in Century Code include setting the programmatic and budgetary priorities for the agency. As Chairwoman Lovas mentioned, SBARE has listened carefully to the needs of the state's citizens through a series of listening sessions and dialog regarding the programmatic priorities for the North Dakota Agricultural Experiment Station.

SBARE has identified and prioritized identified several critical needs which are outlined in our budget book. On pages 5-6 pages you will find the programmatic initiatives for NDSU Extension, on pages 11-12 you will find the programmatic initiatives for the Agricultural Experiment Station, and on pages 47-48 you will find the capital improvement project priorities. These lists were developed by SBARE following dialog with citizens and stakeholders and are presented to this body for consideration as part of the appropriations process.

We are grateful to the 67th Legislative Assembly for their support of capital improvement projects at the REC's during the regular and special session in 2021. I probably don't need to tell you that it has been an exceptionally difficult bidding climate over the past 18 months. Supply chain issues, labor shortages, and inflation in every sector of the construction industry has resulted in a very challenging situation. On Pages 49 to 54 in the budget book, you will find a list of capital improvement projects funded in 2021, and their status to date. You'll

note that there are several where we were unable to get any contractors to bid on the projects, several where the bids came in over our projected budget, and only a handful where we had a successful bid and are able to move forward. We are asking for your consideration of extending the timeframe to complete projects and additional resources to bring them to fruition.

On Pages 83-88 in the budget book you will find a financial schedule that details the base budget, Governor Burgum's executive budget recommendation, and the changes made by the House of Representatives. At this time, I will walk through the key items related to our agency budgets beginning on page 86.

Thank you for your support of our budget and I am happy to answer any questions you may have.

**Testimony for the NDSU Williston Research Extension Center, Christopher Schauer, Acting Director
Senate Appropriations Hearing – HB1020
March 9, 2023**

Thank you Chairman and members of the Senate Appropriations Committee. For the Record, my name is Christopher Schauer and I am the Acting Director of the Williston Research Extension Center. The previous Director, Jerry Bergman, retired on November 1 and I took on Acting Director responsibilities at that time until a new Director is hired.

Thank you to the previous Legislative Assemblies for funds for the construction of our seed plant for the Foundation Seedstocks program. We have completed the building of the new seed plant and are moving forward knowing we have the right equipment in place to continue to serve the western seed industry.

The research and extension at the Williston REC continues to focus on Dryland and Irrigated Agronomy, Plant Pathology, and Weed Science. Staffing continues to be an area of emphasis in order to conduct field based research. We continue to look to new avenues to recruit staffing to the Williston area. We have continued to invest in temporary housing to address some of the staffing needs, but continued support through deferred maintenance, operating funds, and salary support is always appreciated.

The Cropping Systems Initiative in the SBARE Extension priority list, and the Plant Production and Protection Initiative in the Ag Experiment Station priority list, are both initiatives that would support the Williston REC and the regional agronomic producers. Both initiatives are ranked as a high priority by SBARE. In the Capital Improvement priority list, the Williston REC is requesting a facility for the Nesson Valley Irrigation site. An office, lab space, heated shop, and a small conference room are needed as the site is located 27 miles from Williston. The irrigation research staff currently do not have any heated facilities other than the chemical storage room. This facility would support ongoing efforts for growers related to irrigation and high value crops as well as support expansion of irrigation, food processing and livestock industries in western North Dakota. This item was currently included on the House bill for funding at \$1.2 million.

The last item from both the past and the future is our continued effort to fund and build a Greenhouse to support all of our programs, especially our Plant Pathology program. Currently we have been authorized to fundraise up to \$500,000 for the construction of a modest facility similar to the one at the Carrington REC. Unfortunately, with the current construction market, \$500,000 is not adequate for this project. We are requesting an additional \$750,000 in authorization to continue fundraising efforts. Recent estimates indicate \$1.25 million is needed to construct the facility that was originally envisioned. We have looked at similar facilities both in MT and ND, and feel the project we had envisioned is still the correct size and scope, it has just become more expensive in the past 4 years than originally planned. The House currently has included this additional authorization.

In closing, I thank you for your past support and am looking forward to another productive biennium. I will entertain any questions.

**Testimony for the NDSU Hettinger Research Extension Center, Christopher Schauer, Director
Senate Appropriations Hearing – HB1020
February 9, 2023**

Thank you Chairman and members of the Senate Appropriations Committee. For the Record, my name is Christopher Schauer and I am the Director of the Hettinger Research Extension Center.

Thank you to the 67th Legislative Assembly for funds for the construction of an equipment storage shed. We were happy that during this competitive and highly volatile construction bidding market that we were able to finish the storage shed this past fall. It was approximately 20% smaller than we had anticipated, but we are grateful the space that it provides to keep our research and production equipment out of the weather. Additionally, I would like to thank you for the Special Session funding that was provided to construct a Smart Small Ruminant Feedlot and a Livestock Lab. These facilities will bring state-of-the-art feeding and livestock handling facilities to NDSU to put us on the leading edge of livestock research: research such as finding genetic markers in livestock for feed efficiency and quantifying the impacts of livestock on greenhouse gas emissions. We have accepted the bids on both projects and are waiting for final approval from the State Board of Higher Ed to start construction this spring. Your previous support for deferred maintenance has also allowed us to renovate a 1970's office into graduate student and intern housing, something that was desperately needed at the HREC to continue to attract students as housing in Hettinger is in limited supply.

The research at the HREC continues to focus on Agronomy, Weed Science, Wildlife and Range Science, and Animal Science. We started a new Livestock Internship program this past year in partnership with the University of Puerto Rico. This partnership has provided reliable labor while bringing new ideas and faces to Hettinger. Similar to all of the agricultural producers in ND, labor continues to be in short supply, and this new program offers some unique ways for us to fill that gap, while still employing plenty of local and regional high school and college interns and training graduate students from across the country.

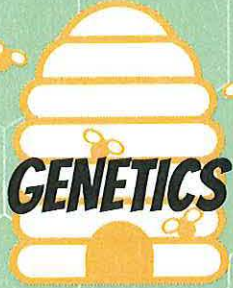
The #1 request coming from the Hettinger REC Advisory Board, with support from the ND Beekeepers Association, is the funding of a Bee and Apiary Research Program. North Dakota is the number one producer of honey in the United States. As a state, the total number of bee colonies is 495,000 or 18% of all colonies in the United States. These colonies contribute to 26% of all honey produced nationally, which is valued at approximately \$67 million. Although North Dakota produces more honey than any other state, we have no research program supporting beekeepers. North Dakota honey producers need apiary research to address pressing issues such as colony collapse and improve honey production by developing greater winter hardiness, improved mite resistance, and increased hygiene. Additionally, research can improve interactions with other agricultural systems of the state while benefitting native pollinator populations and ecosystem services through improved land use. This request currently has the scientist included coming out of the House – adding a support research technician would be beneficial for this program and is part of the original request. A summary of what that program would look like is included with this testimony. A final item that the HREC and Advisory Board are bringing to the legislature this year is a proposed land purchase of 610 acres. We have been renting this parcel for the 16 years and it is integral to our research program. The family has indicated they will be selling the land, but have given NDSU an opportunity to purchase it if approved by the legislature. It currently is included in the House budget.

In closing, we support all of the initiatives in the SBARE priority list, especially items that directly affect our staff, such as increased operating support, deferred maintenance, and raises to offset the cost of inflation.

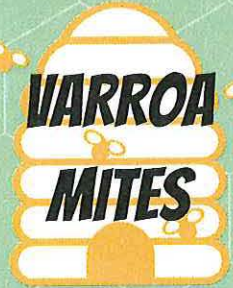
Thank you for your past support and am looking forward to another productive biennium. I will entertain any questions.

Hettinger Research Extension Center

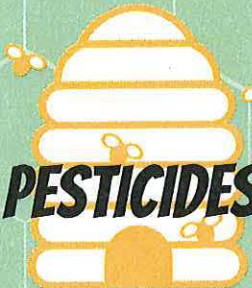
Apiary Research & Extension Program



COLONY COLLAPSE
HONEY PRODUCTION
WINTER HARDINESS
MITE RESISTANCE
HYGIENE



CONTROL



INTERACTIONS WITH
AGRICULTURE



RESOURCE ALLOCATION
INTERACTIONS WITH
NATIVE POLLINATORS



RESPONSIVENESS

NDSU

HETTINGER
RESEARCH EXTENSION CENTER

Testimony to North Dakota Senate Appropriations Committee: HB 1020
North Dakota State University
North Central Research Extension Center, Minot, ND
March 9, 2023

Mr. Chairman and Members of the Committee: Thank you for the opportunity to address this committee and discuss a few of the significant research and extension accomplishments of the North Central Research Extension Center (NCREC) that directly impact North Dakotans. For the record, I am Shana Forster, director of the NDSU North Central Research Extension Center located in Minot, ND.

The NCREC's current mission areas include agronomy research, pulse crops breeding, Extension education in the areas of cropping systems, forage crops production, and crop protection, Foundation seed increase, weed science research, and winter hardy grapes. We strive to provide unbiased, scientific information to farmers and ranchers. I will provide a few updates on current research and Extension programs.

Dr. Brian Jenks, weed scientist at the NCREC has been evaluating weed seed submitted by farmers for many years. Specialty crop block grants from the ND Department of Agriculture provide funding support for this research. During the 2022 growing season, many crop consultants and farmers reported issues after herbicide application in that the weed kochia was not controlled effectively. For the last few months, these kochia populations were screened in the NCREC greenhouse and Dr. Jenks determined that some kochia populations in western ND likely have developed resistance to two commonly used preplant burndown herbicides. These preplant herbicides are of utmost importance to producers, especially those practicing minimal tillage. The loss of these herbicides leaves farmers with limited control options, but the information provided by this research enables farmers to make the best management decisions for their operations.

All North Dakota State University Extension Specialists work closely with our county-based Extension agents. Two Extension Specialists housed out of the NCREC, Dr. Leo Bortolon and Dr. James Rogers have worked collaboratively with NDSU Extension agent, Rachel Wald in McHenry county on a critical issue; soil health, specifically how to best manage unproductive areas of a field. Drs. Bortolon and Rogers have the technical expertise, background and knowledge in cropping systems and forage production to best solve these problems in order to make recommendations for managing sites to better improve crop and livestock production.

The critical priority at the NCREC is hiring and retaining diverse candidates to strengthen and expand our research and Extension activities. SBARE considers this the critical need for the NDSU AES and Extension. In addition, an increase in operating is needed to support our research and Extension activities. Operating money will be used to pursue additional collaborative projects within our NDSU network and with outside scientific partners. A machine storage shed at the NCREC will allow us to properly store valuable research equipment.

I extend my thank you to this committee and the entire North Dakota Legislature for your support

Shana M. Forster, Director
North Central Research Extension Center
5400 Hwy 83 S (701) 857-7679
Minot, ND 58701 shana.forster@ndsu.edu



**North Dakota Grain Growers Association
Testimony in Support of HB 1020
Senate Appropriations Committee
March 1, 2023**

Chairman Bekkedahl, members of the Senate Appropriations Committee, for the record my name is Ed Kessel. I own and operate a family farm in the Belfield area and I am also the President of the North Dakota Grain Growers Association. I appear before you today in both capacities in support of HB 1020.

North Dakota agriculture is the state's number one economic engine. North Dakota farmers and ranchers feed the nation and the world; to maintain and develop that status it is critical that the state of North Dakota provide the resources necessary for the NDSU Research and Extension efforts which allows North Dakota agriculture to enhance its agricultural mission. HB 1020, in its present form, makes a great start in providing those resources and on that basis the North Dakota Grain Growers Association supports HB 1020.

Some specifics; at the December 7 Annual Meeting of the North Dakota Grain Growers Association the membership adopted a resolution in support of the proposed Ag Field Lab capital project initiative which also placed number one in the State Board of Research and Education's (SBARE) priority list of capital improvements. Essentially every facet of North Dakota agriculture goes through the present Ag Lab facilities; to maintain North Dakota agriculture's leadership in the world it is vital that researchers have the facilities necessary to carry out their mission. Additionally, it is essential that the present facilities are upgraded to maintain current staff as well as attract new staff as the need arises. Competition in the research field is stiff; giving NDSU research the necessary facility upgrades can help to ensure North Dakota maintains its agricultural leadership both now and in the future.

"You Raise; We Represent"

Phone: 701-282-9361 | Fax: 701-404-5187 | 1002 Main Ave W. #3 West Fargo, N.D. 58078

From a western North Dakota farmer perspective two SBARE initiatives stand out; one is the number one SBARE Extension Initiative which involves work on western crop production, weed management, and on-farm research. Western North Dakota is experiencing a drastic change in its cropping systems. With the advent of these new cropping systems comes the need to face the new challenges these new cropping systems present. These challenges include new plant diseases, fungicide-resistant pathogens, weed control as well as climate smart initiative all of which require the expertise necessary to address these issues. Additionally, providing the resources necessary to supplement NDSU research with on-farm research programs enhances ag research efforts in the state. The \$1.4 million Crop Systems Initiative is an investment in North Dakota agriculture's future.

The second SBARE initiative that stands out is the Plant Production and Protection Initiative which ranks number one in SBARE's Agriculture Experiment Station request list. Especially important in this request is the addition of an agronomist at the Dickinson Research and Extension Center who would help farmers with their cropping efforts. New crop rotations present new opportunities as well as new challenges especially in western North Dakota. Crop rotations, weather conditions, plant diseases, soil health all play a very important role in western North Dakota agriculture. You cannot address these issues of concern without the experts necessary to carry out vital research efforts that are specific to the western portions of the state. That is why the North Dakota Grain Growers Association supports the addition of an agronomist at the Dickinson REC who will be "boots on the ground" in area research efforts.

The bottom line is North Dakota agriculture needs the people necessary to help North Dakota agriculture move forward into the future. You cannot continue to lead the world in agriculture if you don't attract and maintain the experts necessary to carry out the extension and research activities in the state. It's quite simple; to maintain the best and to attract the best you have to pay people thus the serious need for North Dakota to provide the resources necessary in order to continue the state's support of its number one economic engine.

North Dakota agriculture contributes over \$30 billion annually to the state's economy. Ninety percent of the state's land is devoted to agriculture; one in five North Dakotans are employed in agriculture. HB 1020 represents the state's financial commitment to its number one industry. With a 24 percent return on investment in ag research HB 1020 is a good bet on North Dakota's future.

Therefore the North Dakota Grain Growers Association respectfully requests that the Senate Appropriations Committee give HB 1020 a Do Pass recommendation and would ask that the full Senate concur.

Field Lab Video

<https://youtu.be/K5mapNkkR34>

<https://vimeo.com/707981930/c1fcc0cdc4>

Hi my name is Haley Cowan. I am from Williams County. I am attending NDSU for Agribusiness. I am a current state 4-H ambassador. I am here in support of Bill 1020.

4-H has been a part of my life for as long as I can remember. From a very young age I was told that 4-H was a great organization to be a part of. I was told that it would teach me things that I would not be able to learn anywhere else. But at the time I was just happy to be gluing random things together and taking pictures of my dogs and garden.

I can say today with full confidence that I fully credit 4-H for the person that I have become today.

It was not until I started to show livestock that I started to fully realize the impact that 4-H was starting to take on my life. My one market lamb quickly turned into a flock of sheep and goats. Through showing and raising my livestock, my 4-H for livestock quickly grew. I took every opportunity to help younger youth in my county. I want to help set them up for success so that they would be able to have the same great experience that I had. In 2020 I was fortunate to attend the Agri-Science Summit in Washington DC. We learned about different avenues you can take in agriculture beside animal and crop productions. Some of these things included lobbying and working with technology. During this conference I discovered that I want to make a career out of Ag. I want to be a voice in combating the misinformation and fear mongering of marketing agricultural products and technology.

I have been part of the ambassador program since 2018. During my time in the program I have held many roles. I am currently one of three overalls. This position is comparable to the president of an organization. During my time in this role I have really found myself seeing and understanding the big picture, and being able to guide people through different situations. I have gained confidence in my skills and knowledge, that I am able to find and identify a problem and bring solutions to the table. Foundation board member

4-H has prepared me more for life than school or sports or my parents could have. I was able to spend last semester in Phoenix interning with the Arizona National Livestock Show. It was my experiences and skills I gained through 4-H that made me competitive for this position. Now I am developing a fundraising campaign with skills that I learned during my time there to help support our 4-H Extension Youth Conference.

Throughout my time in 4-H I have been surrounded by adults that want to see me succeed. 4-H is a program that truly does give back the time you put into it.

Testimony to North Dakota Senate Appropriations Committee: HB 1020
North Dakota State University
Dickinson Research Extension Center, Minot, ND
March 9, 2023

Chairman Wanzek and members of the senate appropriations committee thank you for this opportunity to talk about the needs of for a research agronomist at the Dickinson Research Extension Center. For the record, I am Chris Augustin and serve as the director of the Dickinson Research Extension Center. I'm a farm kid who grew up in Pembina County and want to share a story of how NDSU greatly helped my family farm via a nearby Research Extension Center research agronomist.

My family farm weathered the tough times of the 1980's crisis where 1 in 4 farms failed. We were very close to losing the farm. I remember my parents constantly argued about money and we lived off of the deer we hunted and potatoes we grew. It was 1990 and my Dad was looking for a way to diversify the farm to improve our family livelihood.

About that time, my Dad started to learn from our Extension agent about a new oilseed crop called canola which the nearby research agronomist at Langdon Research Extension Center had been studying. That crop was added to our farm, became an important crop to us, and is now an important commodity to North Dakota.

Fast forward to 1993 and a shift to a wetter climate occurred. Devils Lake started to fill, pulling stuck combines and tractors became the norm, and scab plagued our wheat. Again, local research paired with outreach helped my family immensely. The LREC research agronomist teamed with main campus breeders and pathologists to find solutions to this troublesome disease. Learning from our county agent, we planted new NDSU scab resistant varieties. My Dad bought a new high-volume sprayer to properly apply fungicides that would protect our grain.

I want Dickinson area family farms and all of North Dakota to benefit like my family did. The Dickinson Research Extension Center does not currently have the capacity to collaborate with crop breeders who develop varieties that thrive in our soils and environment. We are unable to conduct disease, weed, and insect management trials. Our ability to answer the agronomy research needs of our area is very limited. A research agronomist at the Dickinson Research Extension Center will improve the lives of North Dakotans that we serve. This position is part of the #1 programmatic initiative that SBARE has for the Agricultural Experiment Station. Our team will continue to work hard for North Dakota. However, I feel we are not operating at our full potential without a research agronomist.

In closing, I thank you for your past support especially for the funding for the lab/shop project provided in the 2021 special session. At this time, I would be happy to answer any questions you may have.

Chris Augustin, Director
Dickinson Research Extension Center
1089 State Ave.
Dickinson, ND 58601

(701) 456-1100
Chris.augustin@ndsu.edu



Chairman Wanzek and members of the Government Operations Division of the Senate Appropriations Committee. My name is Luke Anderson, I am part owner and operator Anderson Seed Farms Inc. in Forman, ND. I also am a representative on the advisory council for the Agronomy Seed farm in the SE District. Since 1958 we have produced, conditioned, and sold Certified Seed. We have raised many crops throughout our history and the origin of many of these varieties have come from the Agronomy Seed Farm in Casselton, ND. We have relied on the research and expertise of NDSU, NDSU Extension, ND Ag Experiment Station, and the Agronomy Seed Farm, to provide us with quality foundation seed varieties that have played a major role in our success as seed operation and the success of our farmer growers who have relied on the seed we produce.

The economic benefits that the Agronomy Seed Farm provides for seed producers in the state of North Dakota and surrounding region are greater than most realize. I can attest to this personally as a seed producer and farmer. Without the Agronomy Seed Farm's work in research trials and foundation seed production, area growers would not have the access to the scientific data and quality seed needed to grow NDSU seed varieties. This contribution creates an economic benefit to not only the state of North Dakota and NDSU, but also to the farmers of North Dakota and the surrounding region.

As a member of the Advisory council, I can also say that everyone at the Agronomy Seed Farm operates in the upmost professional manner. They are meticulous at not only producing clean and pure seed for farmers but also manage many research trials that provide seed growers and researchers important data on seed varieties.

In closing, I am asking for the approval of the Agronomy Seed Farm's budget. The Agronomy Seed Farm is self-supported and does not require any general fund appropriations which supports how efficient and successful the Agronomy Seed Farm has been for the people of the great state of North Dakota.

Thank you for your time and the opportunity to provide this testimony.

Sincerely,

Luke Anderson
Anderson Seed Farms Inc.
SE District Rep. Agronomy Seed Farm Advisory Council.

LEGISLATIVE TESTIMONY – NDSU AGRONOMY SEED FARM**SENATE APPROPRIATIONS COMMITTEE HEARINGS****Testimony by: Brian Otteson, Director****HB 1020; Budget No. 649****MARCH 9TH, 2023**

Good morning, Chairman Wanzek, members of the Government Operations Committee. My name is Brian Otteson, I am the Director of the Agronomy Seed Farm at Casselton ND. We are part of the NDSU Agricultural Experiment Station. Today, I would like to give you a brief update on the Agronomy Seed Farm and our activities the past two years.

The Agronomy Seed Farm has been in operation since 1950 and is located just 1-mile southwest of Casselton ND. The seed farm produces high quality, pure Foundation seed of newly released public varieties by the ND Agricultural Experiment Station. The seed farm provides seed producers across the state direct access and first choice to these new varieties each year. The seed farm produces Foundation seed of winter wheat, spring wheat, barley, oat, field pea and soybean. On average, we produce 25 varieties for seed each year and distribute 33,00 bushels of seed each year. Our land base includes approximately 1400 acres across three locations at Casselton, Prosper and Fargo. The seed farm utilizes about 1100 of these acres for seed production while the remaining 300 acres are dedicated to the research plots and breeding nurseries for the main station scientists.

In addition to producing Foundation Seed, we also provide support to the main station scientists at NDSU. Our support primarily consists of land management and providing crop rotations for the research plots at the Casselton, Prosper and Fargo sites. In addition, we work closely with the plant breeding projects on new variety development and initial breeders seed increases. We also collaborate with the ND Crop Improvement & Seed Association and the NDSU Foundation Seedstocks project on distribution of new seed increases to the seed growers across the state.

The seed farm has just three FTE's and one part time seasonal student employee. Our budget remains mostly unchanged from year to year, with only small increases for salary adjustments and health care premium increases. Beyond normal operation expenses, we continue to replace and update aging farm equipment as the budget allows. When the seed farm was set up, the intention was for it to be 100% self-supportive with no state general funds included in this budget. This has always been the case for the past 73 years that the seed farm has been in operation and continues today. We continue to operate well within our current budget.

Today, I am not asking for any general fund appropriations since we are 100% self-supported, but rather, I am just asking for your support in approving our budget so we can continue to operate as we have in the past.

Thank you for your time today and I'd be happy to answer any questions you may have.



North Dakota Irrigation Association

P.O. Box 2254
Bismarck, ND 58502
701-223-4615
701-223-4645 (fax)

Dedicated to strengthening and expanding irrigation to build and diversify our economy

Senate Appropriations Government Operations Division House Bill 1020

Testimony of Steve Hansen, Chairman of North Dakota Irrigation Association March 9, 2023

Chairman Wanzek and Members of the Senate Appropriations Government Operations Division:

North Dakota irrigators support the agricultural research and education efforts of North Dakota State University and we encourage the legislature to continue the investments in this important role.

North Dakota irrigates about 300,000 acres to produce a variety of crops including corn and cereal grain crops, livestock forage, and high value crops such as potatoes, sugar beets, and onions. Irrigation provides strong economic return, with an acre of irrigated land producing four times that of dryland in regular conditions and as much as six times in times of drought.

Irrigation provides the opportunity to grow higher value crops where top yields and exceptional quality are necessary. High quality coupled with substantial yielding potatoes have made the French fry industry, located in Grand Forks and Jamestown, successful in the state. The acreage of onions in the state is smaller than the other crops, but this crop may have an important role in the future as markets are developed. Other fruit and vegetable crops can be produced and processed in the state and the development of the markets for these crops is needed. Irrigation does and can diversify and strengthen the agricultural economy of the state. We urge the dedication of additional resources to research the opportunities for high value crops.

Irrigation also provides producers and agricultural processors dependability despite weather conditions. The drought in 2021 heightened awareness of the need for additional irrigation to support the growing value-added agriculture processing in the state. The Association is proud to partner with other commodity organizations in the state to expand awareness of the benefits of irrigation and brainstorm ways to reduce barriers to irrigation development.

North Dakota has a substantial potential of increasing irrigation. For example, approximately 300,000 acres in the Missouri River corridor have the water and soils suitable for irrigation. The Missouri River is our most bountiful water resource and irrigation is an ideal way to put that water to use.

A key part of irrigation development is continued research on irrigation practices and irrigated crops. The State Board of Agricultural Research and Education priorities include a request for capital project improvements for the Nesson Valley Irrigation site. The researchers need office and lab space, a heated shop, and a conference room. This facility would support ongoing educational efforts for irrigators as well as meetings to support expansion of irrigation in western North Dakota.

Thank you for your past support of irrigation research. Please support the SBARE priorities for the 2023-2025 biennium.



Victor Meyers
President
209 Dakota Ave.
Wahpeton, ND 58074

March 8, 2023

Senator Ray Holmberg
Chairman Senate Appropriations Committee
North Dakota State Senate
68th North Dakota Legislative Assembly

RE: Support for the Upper Great Plains Transportation Institutes Budget Request - HB 1020

Chairman Holmberg,

Red River Valley & Western Railroad Company (RRVW) is a short line railroad that operates a freight rail network in central and southeast North Dakota and western Minnesota. In total, RRVW provides freight rail transportation service to ~70 different customers in ~50 different communities.

Please accept this letter of support from RRVW for the Upper Great Plains Transportation Institute's 2023-2025 Biennial Budget Request. The Upper Great Plains Transportation Institute (UGPTI) provides valuable analysis and tools to provide relevant information for fact-based transportation and multimodal decisions in the state of North Dakota.

RRVW believes that the ultimate beneficiaries of the UGPTI's work are the rural communities in North Dakota that rely on a safe and reliable multimodal transportation system that will strengthen the states rural communities.

Thank you for your consideration.

Sincerely,

A handwritten signature in blue ink, appearing to read "V. Meyers".

Victor Meyers

My 4-H Testimony

Sam Devick

My name is Samuel Devick and I am proud to share with you how North Dakota 4-H has benefited me and made me into the person I am today. I hope my testimony will influence the committee in approving the Ag Extension budget so that this wonderful program can continue to positively impact the youth of North Dakota.

I would like to highlight some of the 4-H events and contests that are made possible by the 4-H program and that are guided by the North Dakota Extension Agents.

First, I would like to mention the North Dakota 4-H Pollinator Habitat Ambassador program. This program has been directed by Dr. Leigh Ann Skurupey who is the Assistant Director for the Center for 4-H Youth Development.

This opportunity was made possible through a grant by Coteva Agri-Science. Dr. Skurupey applied for the grant and has been instrumental in guiding the program.

This program has helped me to become a leader through educating 4-H clubs about pollinators and assisting in planting pollinator habitat. It has also taught me new things about the world and developed my interests in science, agriculture, and the environment.

Another great opportunity made possible through 4-H is the Crop and Range Judging contests. Because I was born in Fargo and my family does not own any land, I never thought I would get much exposure to agriculture.

But through participating in the Crop and Range Judging contests, I have discovered a passion for agriculture and the natural world. I am so grateful for the mentorship I have received from Kyle Aasland, the Ag Extension Agent for Cass County. He has been an excellent coach and through his advice, I have found a summer job working at the Albert Ekre Grassland Preserve which is managed by NDSU.

The final example that I would like to mention is the 4-H Communication Arts contest which is held on county, district and state levels. This contest has helped me gain confidence in public speaking and writing.

The contest has also taught me project management skills, specifically when working with my 4-H friends on a dramatic presentation. We practiced multiple times each week, wrote our own introduction, and created costumes

ourselves. We were able to present at the Communication Arts Contest as well as at my church's talent show, and for school groups.

I could give many more examples, but to conclude, I would like to point out that if helping North Dakota youth become leaders, develop their talents and improve their communities is a value of our state, this committee should support the 4-H program.

Thank you.



Contact:
Matt Perdue, Lobbyist
mperdue@ndfu.org | 701.641.3303

**Testimony of
Matt Perdue
North Dakota Farmers Union
Before the
Senate Appropriations Committee – Government Operations Division
March 9, 2023**

Chairman Wanzek and members of the committee,

Thank you for the opportunity to testify on House Bill No. 1020. My name is Matt Perdue, and I am testifying on behalf of North Dakota Farmers Union's (NDFU) members. NDFU strongly supports HB 1020.

As passed by the House, HB 1020 addresses several needs. Increased funding for the Northern Crops Institute will bolster NCI's ability to create new market opportunities for farmers and ranchers. The funding provided for the Upper Great Plains Transportation Institute will help our state adopt more innovative, cost-effective approaches to improving our transportation system.

Most importantly, HB 1020 would fund the establishment of a new Ag Field Lab Facility. This new facility will help NDSU attract and retain top quality scientists. It will make NDSU's research more efficient and effective. The Ag Field Lab Facility will help NDSU continue its proud tradition of providing world-class research for future generations of North Dakota farmers.

NDFU would like to highlight one opportunity to strengthen HB 1020. As part of the Cropping Systems Initiative, SBARE requested funding for a carbon credit specialist. The position would fill an important need for North Dakota's farmers and ranchers. A year ago, Farmers Union surveyed our members on educational topics they are most interested in; carbon was at the top of that list. Last month, we hosted the Evolution Ag Summit, an event focused on carbon reduction initiatives in food and agriculture supply chains. The discussion at that event made it clear that farmers and ranchers need more state-specific, objective, and trustworthy resources on carbon sequestration.

Carbon contracts can create real market opportunities for producers, but they also come with risks. Most information about carbon markets and other market-driven carbon incentives is provided by market players with clear profit motives. Public research and education will help more farmers and ranchers understand whether carbon contracts are an attractive opportunity for their unique situations. We encourage this committee to support that work with funding for a carbon credit specialist.

Thank you for your consideration. I will stand for any questions.

**House Bill No. 1020****Senate Appropriations****Government Operations Division**

Red River | March 09, 2023, 08:30 a.m.

Scott D. Zainhofsky, Planning/Asset Management
Division Engineer

Mr. Chairman and members of the committee. For the record, I'm Scott Zainhofsky, Planning/Asset Management Division Engineer for the North Dakota Department of Transportation (NDDOT). This submitted testimony is in support of the Upper Great Plains Transportation Institute's (UGPTI) section of House Bill 1020.

The NDDOT utilizes the expertise of UGPTI to assist in conducting research and special studies in areas such as traffic modeling, preparing needs analyses, determining economic impacts, and providing analysis on various transportation related topics. Additionally, using actual NDDOT design projects, UGPTI trains future transportation engineers with real-world experience for NDDOT, our local government partners, and the private sector alike. The services UGPTI provides are invaluable to the state's transportation system and its users.

Mr. Chairman, that concludes my submitted testimony.

My 4-H Testimony

Sam Devick

My name is Samuel Devick and I am proud to share with you how North Dakota 4-H has benefited me and made me into the person I am today. I hope my testimony will influence the committee in approving the Ag Extension budget so that this wonderful program can continue to positively impact the youth of North Dakota.

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I could give many more examples, but to conclude, I would like to point out that if helping North Dakota youth become leaders, develop their talents and improve their communities is a value of our state, this committee should support the 4-H program.

Thank you.

Testimony to North Dakota Senate Appropriations Committee
March 9, 2023
North Dakota State University
NDSU Agriculture Experiment Station & Research Extension Centers

Good morning, my name is Mike Ostlie, the director of the Carrington Research Extension Center. Chairman Wanzek and Senate Appropriations Committee members, thank you for the opportunity to address your committee.

The staff of the Carrington Center are proud to be a part of the network of RECs and Main campus researchers and Extension specialists who work with crop and livestock producers to address the needs of today's agriculture. CREC researchers routinely collaborate with recently supported initiatives including the Big Data, Microbiome, and Precision Ag Initiatives. These collaborations are already greatly advancing our ability to answer complex questions about North Dakota production agriculture.

The Carrington Center would like to extend thanks for past support of capital projects to enhance our livestock research capabilities. These projects are critical to the future of North Dakota's livestock industry, in particular with regards to utilization of feedstuffs generated by the growing biofuels industry as well as the promotion of expanded opportunities for livestock production in the state. The current version of HB1020 has included a time extension on existing funds and an increase to the funds for projects that received bids that were too high or no bids over the past year. We ask for continued support of these efforts through approving the current version of these projects within of HB1020.

South-east and south-central North Dakota has the most heat units available for many of our row crops, including dry beans, corn, and soybeans, allowing producers to plant the highest maturity varieties or hybrids in the state. This region is critically served by CREC, off-station locations, along with its Oakes Irrigation Research Site. We ask for your support to fully fund AES SBARE Priority #2 in order to meet the demand of increased operational support to counter inflationary pressures and specifically to support the Oakes Irrigation Research Site. This site provides valuable dryland and irrigated reference data to some of the highest yielding corn and soybean acres in the state, including variety performance, water use efficiency, microbial inputs for nitrogen and phosphorous, and plant disease mitigation. The OIRS was partially supported through HB1020. Full funding for the research site will provide immediate impact which coincides with recent upgrades to the site and planned enhancements that have been supported through other local and state resources. When all aspects are working in unison the OIRS will be well positioned to continue high impact research, especially into corn and soybean variety and input testing. Recent broad promotion of biological and alternative inputs has emphasized the importance of unbiased research, in which OIRS is well equipped to handle.

Agronomy research and Foundation Seedstocks programs have expanded over the past decade at CREC. This has resulted in research and field equipment storage that is inadequate. We are asking for your assistance improving our storage capacity through fully supporting the storage

shed capital improvement project so that our equipment can be stored out of the elements and away from rodent exposure where many items currently reside. Thank you for your time today.

Mike Ostlie, Director
Carrington Research Extension Center
P. O. Box 219
Carrington, ND 58421-0219

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fax: (701) 652-2055
E-mail: Mike.Ostlie@ndsu.edu

NDSU Central Grasslands Research Extension Center

Enhancing Lives while Improving Ecosystem Services and
Conservation of the Grasslands



Agriculture #1 Industry in North Dakota (ND Dept. Commerce 2022)

- ◆ \$8.88 billion per year in cash receipts (NASS.USDA 2022)
- ◆ 24% of the state's population is employed in the agricultural sector
- ◆ 90% of the state's land is used for agriculture
 - * 16.4 million acres is range, pasture and hay land
- ◆ 1.85 million head of beef cattle
 - * Rank 4th in total economic value behind soybeans, wheat, and corn at \$1.15 billion
 - * Hay production ranks 6th at \$281 million

Tourism #3 Industry in North Dakota (ND State Government 2022)

- ◆ \$3.0 billion per year in visitor spending
- ◆ Much of these dollars are driven by recreational activities associated with our natural resources

Central Grasslands Research Extension Center Mission:

- ◆ Develop grazing management strategies and identifying best forage options that enhance the lives of the ranching community while revitalizing rural communities
- ◆ Study integrated grazing management strategies for range and cropland that regenerates our natural resources (increase carbon capture, increase bio-diversity, reduce water pollutants, and improve the soil biology)
- ◆ Develop best grazing management practices that enhance ecosystem services, bees and butterfly habitat, and bird habitat
- ◆ Assess impacts of management of beef cattle on reproduction and fetal development
- ◆ Train our next generation of land managers, ranchers, decision makers, industry leaders, and professionals

Accomplishments at CGREC:

1. Regenerative Agriculture and Bio-diversity

We have assessed conservation tools to increase plant diversity and regenerate grazing lands to enhance the resiliency of our forage base for livestock production while improving habitat for wildlife and pollinators. Our outcomes include:

- a. Reduce invasive grasses by 5 to 15 percent, increased plant diversity by 2x to 3x, and enhanced soil health in terms of carbon sequestration and nutrient use**
- b. Create scientific outputs that describe grazing management strategies that enhance breeding bird and pollinator habitat, which can be used when new policies are developed to show grazing cattle is needed for proper environmental function**

2. Add value to grazing lands through enhanced grazing efficiency and economic return

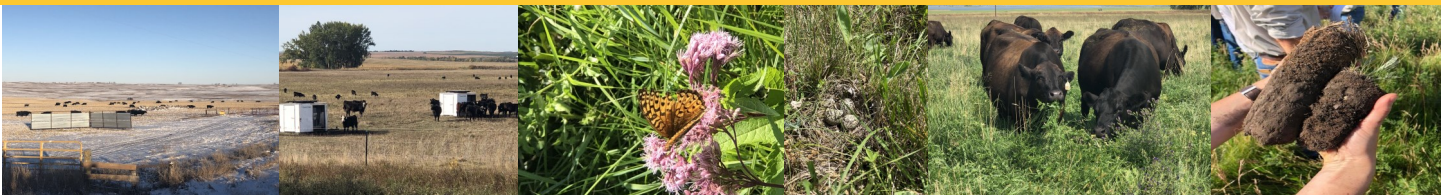
Our research shows we can increase harvest efficiency by 30 to 60 %, adding economic value to grazing lands by 25 to 35 %.

3. Assess late-season grazing and forage systems

We have shown economic efficiency through reduced fossil fuel use, labor, and depreciation to equipment while adding value to the land by incorporating grazing/feeding strategies into the winter season.

4. Study precision agriculture to enhance land management, beef cattle reproduction and nutrition

Add value to livestock in terms of genome selection, feeding efficiency, and fetal development



Needs for 2023-2025:

- ◆ Building attractive compensation packages for employees will be crucial in the recruitment and retainment of top talent.
- ◆ Extension of capital projects funded during the 67th legislative assembly, and authorization of \$175,000 for the center's residence (no additional funds requested).
- ◆ A one-time request for \$400,000 to complete the livestock research laboratory and replicated feeding facility.

**Kevin Sedivec, Interim Director Central Grasslands Research Extension
Center, North Dakota State University**

**Testimony for the 68th Legislative Assembly: HB 1020 Appropriations
– Government Operations Committee**

January 16, 2023

Chair Wanzek, Senate Appropriation – Government Operations Committee Members. For the record, my name Kevin Sedivec, Interim Director for Central Grasslands Research Extension Center.

I want to thank the committee for the opportunity to provide testimony today. For those who do not know me, I am a native of North Dakota, born and raised in the Mandan area. The Central Grasslands Research Extension Center is located near Streeter. It is a little over an hour from Bismarck and 40 minutes from Jamestown.

The center's overall mission is to conduct research and Extension programming on Grazing and Forage Management to increase the economic value to the ranching community and ecological function for conservation to all North Dakota citizens within the Missouri Coteau Region.

- Our research has developed grazing strategies that increases the economic value to grazing lands by 25 to 35 percent, while increasing livestock performance and enhancing breeding bird populations and pollinator habitat
- We've studied numerous annual forage crops to help ranchers better select which species to grow for forage production and quality
- We have accessed late-season grazing and forage options that have shown to increase economic efficiency through reduced fossil fuel use, labor, and depreciation to equipment while adding value to the land

I would like to thank the 67th ND Legislative Assembly for funding new capital projects at the Central Grasslands Research Extension Center.

Two projects were funded within SB2020: a director's residence and pasture working facilities.

- The pasture working facilities will be completed by the end of the fiscal year under-budget
- The director's residence project was bid out with no bids received

A livestock research laboratory and replicated feeding facility was funded within SB2345 (ARPA funds).

- Although we did receive bids for this project, the bids were not accepted due to a shortfall of \$400,000 in funds needed to complete this project. The costs of material and labor were much higher than what we budgeted when we submitted the project in 2021

Our needs for the 2023-2025 budget year include:

- A request for an extension of the funds for the director's residence. Although we are not asking for additional state funds, we are requesting additional special fund authorization of \$175,000.
- We are also requesting an extension of the funds for the livestock research laboratory and replicated feeding facility; and a one-time request for an additional \$400,000 to complete the project.
- We would be greatly appreciative if you would consider appropriating funds for the machine sheds that have been proposed in previous sessions.
- Finally, we are asking for a competitive salary package for our staff. Building attractive compensation packages for employees will be crucial in the recruitment and retaining of top talent.

We truly appreciate your support and time! I would gladly take any questions at this time.

March 5, 2023

**Testimony by Jayce Doan on behalf of the NDSU Central Grasslands Research Extension
Center for HB 1020: Senate Appropriations Committee**

Good morning Chair Wanzek and Senate Appropriations-Government Operations Committee. My name is Jayce Doan, an advisory board member on the Central Grasslands Research and Extension Center and I am present today to testify on their behalf.

I am a fifth-generation rancher on my family's ranch in south central North Dakota where we raise cattle and buffalo. We try to do this with a holistic and regenerative approach with the end goal of leaving our natural resources in a better state than we received them.

I have been on the advisory board for 3 years, just now starting my second term. I wanted to be involved with Central Grasslands because as a young producer, I know the value research can have on farmer's and rancher's operations. If we don't innovate and adapt in agriculture, generational farms and ranches will be a thing of the past. In North Dakota, we have a strong livestock industry. But more and more grasslands are being converted to row crops. Roughly 25% of native grass remains in ND, with that number decreasing every year. The Central Grasslands Research and Extension Center is vital to helping ranchers increase their bottom line and make sure the livestock industry thrives in ND.

Personally, we are very committed to conservation on our ranch. I'm very satisfied at the trials and approaches the Research Station has taken to find ways to bring our soil health back to a level to where we, as producers, aren't raping the soil and degrading it year after year. We want to be as profitable as possible in the livestock industry, and that is more than possible to do while working in sync with nature, the land, and the livestock. Central Grasslands has provided valuable information for producers to do so.

The number 1 largest cost for livestock producers on the Northern Plains is winter feed costs. The Research Station has done great work in showing different ways of winter grazing vs. supplemental feeding all winter. Central Grasslands has compared grazing range, cover crops, crop stubble, swathed windrows, bale grazing, to fed hay, silage, corn, etc. Without a research station to conduct these experiments, producers would be very unwilling to change the way they operate, not wanting to be a guinea pig and put their own ranch at risk.

Our ranch was one of six operations to partner with Central Grasslands over the last few years in a SARE study to compare different grazing intensity impacts on fall forage. This shows Central Grasslands willingness to partner with producers when possible and utilize resources in a very conservative manner.

Thank you again Senate Appropriations-Government Operations Committee for the opportunity to testify, and thank you for your continued support of the Central Grasslands Research and Extension Center.

Jayce Doan

Central Grasslands Research and Extension Center Advisory Board Member

In Support Of

House Bill 1020

Senate Appropriations – Government Operations Division

Monte Peterson, North Dakota Soybean Growers Association

Chairman Wanzek and members of the committee, my name is Monte Peterson and I wish to express my support for H.B. 1020. My wife and I have a farm south of Valley City in Barnes County where we grow Soybeans, Corn and Wheat.

For committee members who may not be familiar with me, along with farming the last 42 years, I have volunteered time back to my fellow soybean growers during the last 15 plus years to promote the state's soybean industry. First, I served as a director and Chairman of the North Dakota Soybean Council for seven years and as its Research Chair for a couple of years within that time.

I am currently serving as a director for the North Dakota Soybean Growers Association and the American Soybean Association, both advocacy organizations. I am also a past chair of the U.S. Soybean Export Council which is tasked with building a preference for U.S. soy worldwide.

I wanted to preface my testimony with that background so that you may better understand my perspective about the importance of the NCI and the proposed feed mill upgrades.

When I planted my first soybean field 35 years ago, it was nothing more than an experiment. As I became more familiar with the state's soybean industry some 15 years ago, you could say it was still just beginning to blossom. Now, North Dakota is a leading exporter of whole soybeans to markets like China.

However, the paradigm of soybean marketing in North Dakota is changing again. With the high-quality soybean meal which will soon be available to market, we need additional research and background about using North Dakota meal in feed rations. Hence the need to update the NCI feed mill to world class standards. We need to bring in the technology that our international customers are expecting to use.

NCI is renowned around the world as a credible source of information. During my international travels supporting the soybean industry, the NCI is widely recognized as an authority. This feed mill update will reinforce that leadership status.

As we move from exporting almost all of our soybeans whole, to crushing a quarter of the crop in the coming year, trade teams continue to visit North Dakota, the NCI and to attend courses at the feed mill. Several soybean-focused projects are planned for this year at the feed mill, and I just returned from a planning meeting for the next several years where there was a focus on marketing soybean meal. This increase in meal availability provides an opportunity for the soybean industry to diversify and target markets which don't have a developed crush industry.

We are realizing the dream of adding value to the North Dakota soybean crop. We ask for your support of the NCI Feed Mill upgrade project to help add more value. I encourage the continued investment into North Dakota research and extension and your support for this bill.

HB1020**Government Operations Division of the Senate Appropriations Committee****3/9/23****Sarah Hall Lovas, SBARE Chair**

Chairman Wanzek and members of the Government Operations Division of the Senate Appropriations Committee. My name is Sarah Hall Lovas and I am an agronomist from Hillsboro, ND. I currently serve as the Chair of State Board of Agricultural Research and Education (SBARE). Thank you for this opportunity to come before you today and share with you some information about the North Dakota Agricultural Research Station (NDAES), NDSU Extension (Extension), and SBARE. Thank you for your previous support for the NDAES and Extension.

Last week, I shared with the entire Senate Appropriations Committee information relating to the history, duties, and prioritization process the SBARE conducts when developing the SBARE Priorities. Dr. Greg Lardy will go through our priorities with you in more detail. However, there is one point of clarification I would like to make about a question from last week. HB 1020 does contain funds to purchase land for the Hettinger Research Extension Center. This land purchase request did not go through the traditional prioritization process, because this is not our custom with land purchase requests. These are unique requests and historically, SBARE has handled these separately from all other capital and programmatic ideas. In February, 2022 the board heard from Dr. Schauer, HREC Director, who discussed the need for this land and its' impact on the research programs at the HREC. The board asked him to gather additional information and ultimately, at the board's July 29, 2022 meeting a motion was made and passed supporting the HREC land purchase.

I know I stated this last week, but Agriculture has a \$30.8 billion dollar contribution to North Dakota's economy. Further, agriculture research has an ROI of 25%. Investing in agriculture research is a good investment!

However, it isn't just about the money. It's about the people of North Dakota and how their lives are improved through the education programs provided by Extension. It is about North Agriculture and how it is advanced due to cutting edge research from the NDAES.

The NDAES provides research that private industries do not. For example, the NDAES has plant breeding programs for crops such as dry beans and pulse crops. These crops might not have enough acres nationally for a private company to justify a plant breeding program, but they are very important crops in North Dakota and the NDAES provides an opportunity for our producers to have access to plant genetics that helps keep their farming operations competitive. We have extreme weather in North Dakota and it is a challenging place to raise livestock. Our livestock producers depend on Extension and the NDAES to provide them with information in time of extreme weather like drought and extreme snowstorms. 4-H is one of the best programs to help prepare youth to be service-minded future leaders. 4-H teaches fortitude to see challenging projects all the way through; valuable leadership skills; and the value of giving back to your community. These are only a few examples of how Extension and the NDAES impact North Dakota every day. There are others today who will help explain how Extension and the NDAES impacts them.

Thank you again for you time this morning. I would stand for any questions that you may have.

Request: Please support the SBARE Priority list. Please support the Field Lab Facility request.
Please support enhancing state employee compensation packages.



FMWF Chamber Letter of Support for HB 1020

March 9th, 2023

Chairman Wanzek and members of the Senate Appropriations - Government Operations Division:

For the record, my name is Katherine Grindberg and I have the pleasure of serving as the Executive Vice President for the Fargo Moorhead West Fargo (FMWF) Chamber of Commerce. The Chamber's mission is to be a catalyst for economic growth and prosperity for businesses, members, and the greater community. On behalf of our over 1,900 members, I respectfully offer testimony in support of House Bill 1020, specifically as it relates to the North Dakota State University (NDSU) Extension Services and North Dakota Agricultural Experiment Station.

Agriculture is one of the foundational industries of North Dakota and much of the state's success can be attributed to the agriculture industry. As our state continues to lead the nation in multiple different commodities, it generates billions of dollars in gross business volume and accounts for thousands of jobs throughout the state. In order to compete on a global scale and remain an international leader in agriculture, our state must continue its strong support for NDSU Agriculture and Extension.

Programs and initiatives, like NDSU Extension's Cropping Systems Initiative and North Dakota Agricultural Experiment Station's Plant Production and Protection Initiative, are pivotal for our state's continued success and improve the lives of all North Dakotans through innovative research, high-quality information sharing, and science based education. In addition to these programs and initiatives, investments in state-of-the-art facilities, such as the Field Lab Facility, are key to furthering modernized agricultural research in our state and allowing researchers to address the critical needs of the agriculture industry.

In closing, I would like to share The FMWF Chamber of Commerce's support for the continued investments into programs, initiatives, and capital projects, like those mentioned above, to advance our state's agriculture industry and the incredible economic and community impact that accompanies it.

On behalf of our members, I would like to thank the committee for their time and consideration.

Respectfully,

Katherine Grindberg
Executive Vice President
FMWF Chamber of Commerce
kgrindberg@fmwfcchamber.com



IN SUPPORT OF HB 1020

Senate Appropriations Committee

TESTIMONY OF JOE SHELDON

NORTH DAKOTA CORN GROWERS ASSOCIATION

MARCH 9, 2023

Chairman Wanzek and members of the Committee,

Thank you for the opportunity for the North Dakota Corn Growers Association (NDCGA) to share our support of House Bill 1020 and funding for the North Dakota Agricultural Experiment Station.

For the record, my name is Joe Sheldon. I farm near Washburn, ND with my wife and family. Our crop rotation consists of Spring Wheat, Pinto Beans, Soybeans, and Corn. I am a North Dakota Corn Growers Association board member, which is the voice of North Dakota corn producers, representing more than 13,000 growers across the state.

Agriculture, and specifically corn production, have made great strides towards sustainability in the last few decades. Corn grower commitments have paved the way for improvements in a number of key indicators. In its first ever sustainability report, the National Corn Growers Association reports that between 1980 and 2015, our nations corn farmers have decreased the amount of land required to produce a bushel of corn by 41 percent; reduced soil loss per acre by 58 percent; improved energy use efficiency per bushel by 41 percent; reduced greenhouse gas (GHG) emissions per bushel by 31 percent; and improved irrigation efficiencies, leading to per bushel declines in irrigation water usage of 46 percent. But corn growers haven't done this on their own. We rely on a web of partners in agribusiness, technology, and higher education to help us to achieve these efficiencies.

The Ag Experiment Station funding in this bill will allow continued vital work on plant protection, production, and crop disease research, helping our state's ag producers to increase their yields exponentially. The climate smart agriculture initiative will serve as a tremendous resource for our state's ag producers, as consumers and our federal executive branch of government are demanding more progress in this arena.

Similarly, SBARE's top initiative for NDSU Extension, the Cropping Systems initiative in which extension specialists work on western crop production and weed management, on farm research aims to help expand agriculture's footprint in North Dakota.

Capital improvement investment in the field lab is critical for facilities needed for agronomic research. We need an effective space for breeding, plant pathology, soil science, and development of high value crops. Corn growers across North Dakota will benefit from research in weed science, plant pathology, as well as soils research that will be conducted in this building and it will help NDSU attract the caliber of talent needed to solve future challenges in agriculture.

If not for the funded efforts in these programs, this work would otherwise fall short and is certain to adversely impact our economic output on the farm and in the state.

Our mission statement is "growing a healthy, profitable business climate for northern corn," and the ag experiment station and NDSU's ag research are valuable tools to help producers meet that mission. Thank you for your continued support of North Dakota agriculture and NDSU research and extension. We urge your support of HB 1020 and the ag priorities contained therein. Thank you for your time today and I will stand in response to any questions you may have.

Support HB 1020

Senate Appropriations Committee

March 9, 2023

Good afternoon, Chairman Wanzek and Committee members.

I am Larry Syverson from Mayville, I grow soybeans on my farm in Traill County, I am the Chairman of the Board of Supervisors for Roseville Township, and I am also the Executive Secretary of the North Dakota Township Officers Association. NDTOA represents nearly 6,000 Township Officers that serve in more than 1,100 dues paying member townships.

North Dakota Township Officers appreciate the funding that has allowed the Upper Great Plains Institute to conduct the road and bridge needs studies and we certainly appreciate the work the staff of the institute has done on those studies. The information provided is of utmost importance for directing funding to where it will do the most good for rural transportation needs.

We are also very appreciative of the ND Technical Assistance Program as they endeavor to provide best practices training for our township officers and to back them up with technical information. They attend our conferences and travel to our workshops to help our officers do their jobs better.

Each year in recognition and appreciation of the technical support and training for township officers that the Upper Great Plains Institute and North Dakota Local Technical Assistance Program provide for us, the North Dakota Township Officers Association contributes \$2,500 to the program.

Chairman Wanzek and Committee Members, that concludes my prepared testimony. On behalf of the membership of NDTOA, I ask that you give HB 1020 your favorable recommendation and I will try to answer any questions.

Chairman Bekkedahl and members of the Senate Appropriations Committee,

My name is Jacob Odermann, I am the chair of the NDSU Dickinson Research Extension Center's Advisory Board. My wife AJ and I along with our four children ranch with my parents north of Belfield in Billings county. We are the 4th generation of Odermann's to ranch in North Dakota. I grew up in a house that Senator Greg Kessel's father built.

Our farm has been directly affected in a positive way by applying the research findings of individuals at our local RECs. For over two decades we have applied Dr. Lee Mansky's twice over grazing rotation program which has done wonders for our soil health while also increasing our carrying capacity.

Farmers in our region desperately need a research agronomist stationed at the Dickinson Research Extension Center. Farmers would benefit greatly from having an individual in this position who will focus on current and emerging issues in our challenging environment. Solutions to growing new crops, disease management, forage production, weed control, and more will be explored. The data gathered from Dickinson will be shared with farmers who will put that science into action and benefit greatly from your support.

A Dickinson Research Extension Center Research Agronomist went through the SBARE process and is listed under the Plant Production and Protection Initiative which happens to be the Ag Experiment Station's #1 legislative priority. During the summer of 2021, DREC director, Chris Augustin held a survey to help guide the center. The results from this survey indicated a research agronomist is the most needed position. Please consider the Dickinson research agronomist and how impactful this person will be to southwest North Dakota and it's farmers and ranchers.

Chairman Wanzek and the Senate Appropriations Government Operations Committee,

My name is Kelly Klosterman, a producer from Richland Co, ND and a Director of the State Soil Conservation Committee. I am here in support of all of the SBARE initiatives, but two of the initiatives are very close to my heart and important to the producers of North Dakota.

SBARE Priority #2 on the research side of SBARE asks for \$400,000 in operating support for the Oakes Irrigation Research Site. The Oakes Research Site conducts vital research on irrigation strategies and farming practices for high value crops, particularly in the southeast region of our state. The potential economic impact and significance of this research for the state of North Dakota is imperative for irrigation expansion and development. Improving water use efficiency will in turn provide an economic value of water savings to producers, and a positive benefit to the environment of our state.

SBARE Priority #5 on the Extension side includes a request for \$300,000 for the State Soil Conservation operating support. The conservation of soil and soil resources is a vital element to sustainability in an agricultural state like ours. In addition, controlling and preventing soil erosion, controlling floods, and maintaining our reservoirs are all necessary to preserve our state's natural resources. In our effort to continue this work, local Soil Conservation Districts need additional funding to support conservation planning and technical assistance.

Thank you,

Kelly Klosterman

HB1020

Senate Appropriations Hearing - Government Operations, March 9, 2023

- 8:30 AM **Sarah Lovas, State Board of Agricultural Research and Education (SBARE) Chair**
- 8:35 AM **Greg Lardy, Director NDAES and NDSU Extension**
- 9:05 AM **Research Extension Center (REC) and Agronomy Seed Farm Directors**
Mike Ostlie, Carrington REC
Kevin Sedivec, Central Grasslands REC
Chris Augustin, Dickinson REC
Christopher Schauer, Hettinger REC
Randy Mehlhoff, Langdon REC
Shana Forster, North Central REC
Christopher Schauer, Williston REC
Brian Otteson, Agronomy Seed Farm
- 9:29 AM **REC Advisory Board Members**
Jacob Odermann, DREC
Tom Wheeler, WREC
- 9:37 AM **Stakeholder Testimony - Agricultural Experiment Station (AES)**
Matt Perdue, ND Farmers Union
Darrell Oswald, ND Ag Coalition
- 9:45 AM **Ed Kessel, ND Grain Growers Association**
Video via ND Grain Growers, Ed Kessel
- 9:51 AM **Stakeholder Testimony - NDSU Extension (EXT)**
Steve Lee, McLean County Commissioner and ND Association of Counties President
Kelly Klosterman, State Soil Conservation Committee
Julie Ellingson, North Dakota Stockmen's Association
- 10:03 AM **4-H Members**
Sam Devick, Cass County 4-H
Haley Cowan, Williams County 4-H
- 10:11 AM **Open Testimony**
- 10:30 AM **Break**
- 10:45 AM **Mark Jirik, Director Northern Crops Institute**
- 11:15 AM **Denver Tolliver, Director Upper Great Plains Transportation Institute**
- 11:45 AM **Conclude**

Prepared for the Senate Appropriations Committee

**Department 627 - Upper Great Plains Transportation Institute
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$5,427,961	\$20,100,371	\$25,528,332
2023-25 Base Level	4,485,607	19,042,350	23,527,957
Increase (Decrease)	\$942,354	\$1,058,021	\$2,000,375

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Strategic investment and improvements fund - Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

Major Related Legislation

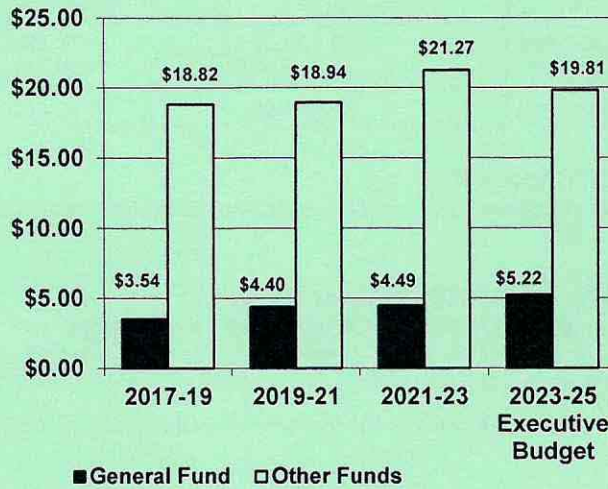
House Bill No. 1379 - Provides funding from the legacy earnings fund to the county and township bridge fund for bridge repair or replacement identified in the Upper Great Plains Transportation Institute's report on road and bridge needs.

Senate Bill No. 2329 - Provides for the allocation of county highway aid fund money based on data compiled by the Upper Great Plains Transportation Institute for road and bridge infrastructure needs.

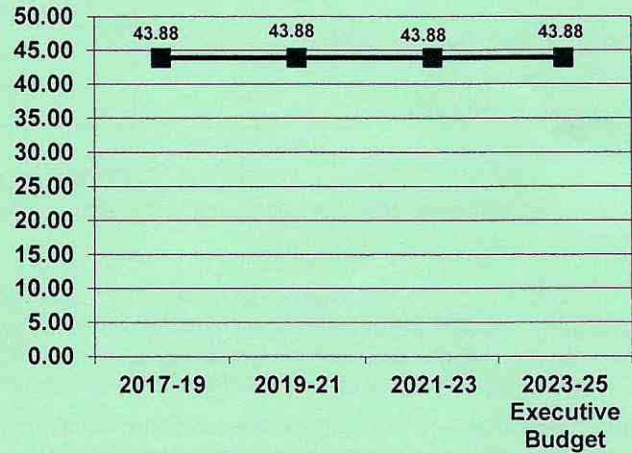
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$3,900,791	\$3,443,174	\$4,396,329	\$4,485,607	\$4,790,711
Increase (decrease) from previous biennium	N/A	(\$457,617)	\$953,155	\$89,278	\$305,104
Percentage increase (decrease) from previous biennium	N/A	(11.7%)	27.7%	2.0%	6.8%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(11.7%)	12.7%	15.0%	22.8%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Removed 1.3 FTE positions and reduced funding for salaries and operating expenses (\$213,402)
2. Reduced general fund appropriations by 3 percent (\$106,917)
3. Adjusted funding sources (\$200,000)

2019-21 Biennium

1. Reduced funding for miscellaneous expenses (\$70,863)
2. Added funding for a road and bridge study \$875,000

2021-23 Biennium

None \$0

2023-25 Biennium (Executive Budget Recommendation)

None \$0

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$628,823	\$100,000	\$0	\$0	\$432,600

Major One-Time General Fund Appropriations

2017-19 Biennium

Added funding for a road and bridge asset management system \$100,000

2019-21 Biennium

None

\$0

2021-23 Biennium

None

\$0

2023-25 Biennium (Executive Budget Recommendation)

Adds funding for a transportation data intelligence center

\$432,600

Upper Great Plains Transportation Institute - Budget No. 627
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	43.88	\$4,485,607	\$19,042,350	\$23,527,957	43.88	\$4,485,607	\$19,042,350	\$23,527,957
2023-25 Ongoing Funding Changes								
Base payroll changes			\$77,856	\$77,856			\$77,856	\$77,856
Salary increase		\$237,004	546,153	783,157		\$174,237	404,585	578,822
Health insurance increase		68,100	139,764	207,864		69,667	142,980	212,647
Adds funding for freight transportation and logistics surveys				0		300,000		300,000
Total ongoing funding changes	0.00	\$305,104	\$763,773	\$1,068,877	0.00	\$543,904	\$625,421	\$1,169,325
One-Time Funding Items								
Adds funding for a transportation data intelligence center		\$432,600		\$432,600			\$432,600	\$432,600
Adds funding for a multimodal carbon dioxide transportation study				0		\$398,450		398,450
Total one-time funding changes	0.00	\$432,600	\$0	\$432,600	0.00	\$398,450	\$432,600	\$831,050
Total Changes to Base Level Funding	0.00	\$737,704	\$763,773	\$1,501,477	0.00	\$942,354	\$1,058,021	\$2,000,375
2023-25 Total Funding	43.88	\$5,223,311	\$19,806,123	\$25,029,434	43.88	\$5,427,961	\$20,100,371	\$25,528,332
<i>Federal funds included in other funds</i>			\$12,715,395				\$12,630,651	
<i>Total ongoing changes as a percentage of base level</i>	0.0%	6.8%	4.0%	4.5%	0.0%	12.1%	3.3%	5.0%
<i>Total changes as a percentage of base level</i>	0.0%	16.4%	4.0%	6.4%	0.0%	21.0%	5.6%	8.5%

Other Sections in Upper Great Plains Transportation Institute - Budget No. 627

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund		Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provide that any adjustments be reported to the Office of Management and Budget.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.

Prepared for the Senate Appropriations Committee

**Department 628 - Branch research centers
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$19,961,201	\$21,182,476	\$41,143,677
2023-25 Base Level	18,569,483	20,722,818	39,292,301
Increase (Decrease)	\$1,391,718	\$459,658	\$1,851,376

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Dickinson Research Extension Center mineral rights income - Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.

Williston Research Extension Center mineral rights income - Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Strategic investment and improvements fund - Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.

Federal State Fiscal Recovery Fund - Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.

Transfer authority - Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, North Dakota State University (NDSU) Extension Service, and Northern Crops Institute and provides that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.

Exemption - Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.

Exemption - Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.

Exemption - Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

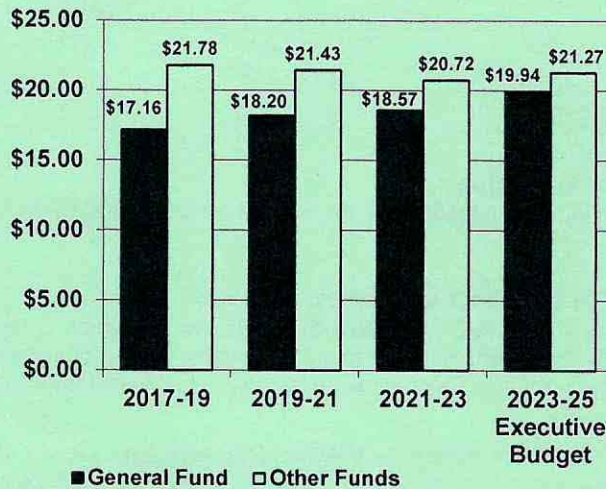
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

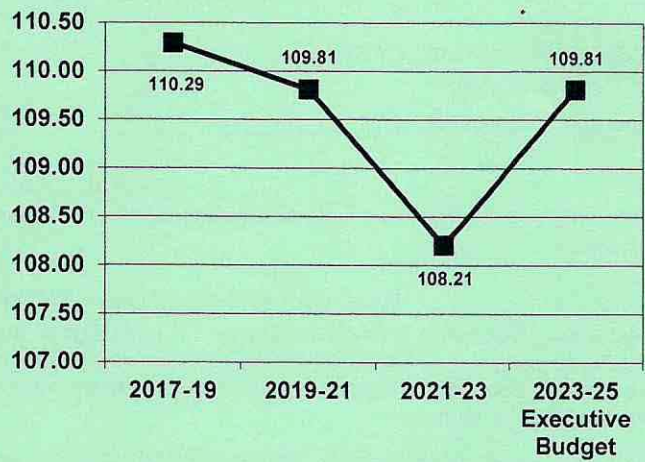
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$18,483,636	\$17,155,257	\$18,201,026	\$18,569,483	\$19,938,659
Increase (decrease) from previous biennium	N/A	(\$1,328,379)	\$1,045,769	\$368,457	\$1,369,176
Percentage increase (decrease) from previous biennium	N/A	(7.2%)	6.1%	2.0%	7.4%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(7.2%)	(1.5%)	0.5%	7.9%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Removed 3.65 FTE positions (\$642,408)
2. Adjusted funding sources and made additional unspecified general fund reductions (\$1,086,573)

2019-21 Biennium

1. Added funding for salaries and wages at the Dickinson and North Central Research Centers \$125,000
2. Added funding for the Oakes irrigation site \$200,000

2021-23 Biennium

None \$0

2023-25 Biennium (Executive Budget Recommendation)

None \$0

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$275,000	\$0	\$0	\$0	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium		
None		\$0
2019-21 Biennium		
None		\$0
2021-23 Biennium		
None		\$0
2023-25 Biennium (Executive Budget Recommendation)		
None		\$0

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301
2023-25 Ongoing Funding Changes								
Base payroll changes		\$122,123	\$18,337	\$140,460		\$122,123	\$18,337	\$140,460
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	1.60			0	1.60			0
Salary increase		940,148	367,690	1,307,838		704,177	275,766	979,943
Health insurance increase		370,078	161,832	531,910		378,591	165,555	544,146
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)		(63,173)		(63,173)
Adds funding for one FTE technician position for clubroot fungus at the Langdon Research Center				0	1.00	250,000		250,000
Total ongoing funding changes	1.60	\$1,369,176	\$547,859	\$1,917,035	2.60	\$1,391,718	\$459,658	\$1,851,376
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	1.60	\$1,369,176	\$547,859	\$1,917,035	2.60	\$1,391,718	\$459,658	\$1,851,376
2023-25 Total Funding	109.81	\$19,938,659	\$21,270,677	\$41,209,336	110.81	\$19,961,201	\$21,182,476	\$41,143,677
<i>Federal funds included in other funds</i>			\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	2.4%	7.5%	2.2%	4.7%
<i>Total changes as a percentage of base level</i>	1.5%	7.4%	2.6%	4.9%	2.4%	7.5%	2.2%	4.7%

Other Sections in Branch research centers - Budget No. 628

	Executive Budget Recommendation	House Version
Dickinson Research Extension Center - Mineral rights income	Section 4 would authorize the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.
Williston Research Extension Center - Mineral rights income	Section 5 would direct the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Other Sections in Branch research centers - Budget No. 628

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the Main Research Center deferred maintenance and equipment storage sheds, is from the strategic investment and improvements fund.	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.
Federal State Fiscal Recovery Fund - Purchase of land		Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provide that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption		Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.

**Department 630 - NDSU Extension Service
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$33,617,498	\$30,368,513	\$63,986,011
2023-25 Base Level	29,437,823	28,303,921	57,741,744
Increase (Decrease)	\$4,179,675	\$2,064,592	\$6,244,267

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the North Dakota State University (NDSU) Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Transfer authority - Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

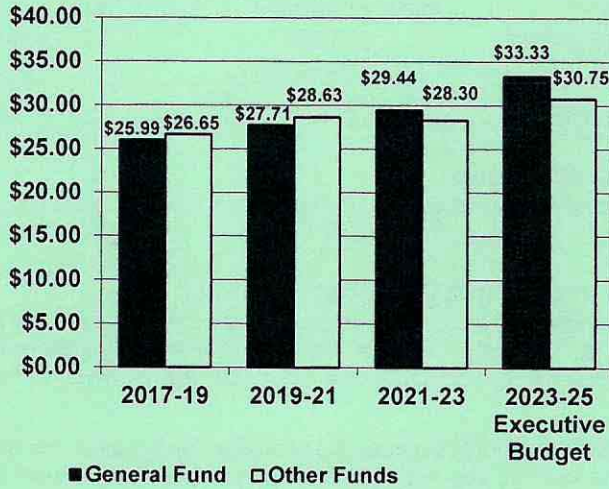
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

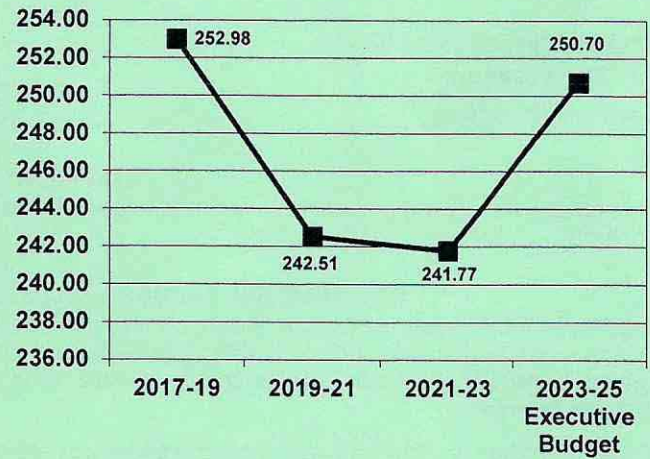
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$27,824,562	\$25,633,320	\$27,709,666	\$29,437,823	\$33,334,561
Increase (decrease) from previous biennium	N/A	(\$2,191,242)	\$2,076,346	\$1,728,157	\$3,896,738
Percentage increase (decrease) from previous biennium	N/A	(7.9%)	8.1%	6.2%	13.2%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(7.9%)	(0.4%)	5.8%	19.8%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Reduced funding for salaries, including removal of 10.93 FTE positions (\$1,619,206)
2. Adjusted funding for operating expenses \$175,557
3. Reduced funding for equipment (\$300,000)
4. Additional unspecified general fund reduction (\$1,096,343)

2019-21 Biennium

1. Reduced funding for salaries and wages (\$125,000)
2. Added funding to provide additional state funds for the costs of county extension agents \$870,000
3. Added funding for miscellaneous expenses \$100,000

2021-23 Biennium

1. Added 1 FTE position and related funding for a big data initiative \$280,000
2. Added 2 FTE positions and related funding for a livestock initiative \$500,000
3. Added funding for the agricultural safety initiative \$240,000
4. Increased funding for soil conservation districts to provide a total of \$1,211,520 \$120,000

2023-25 Biennium (Executive Budget Recommendation)

- Adds funding for a cropping system initiative \$1,400,000

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$12,500	\$360,000	\$0	\$0	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium

Added one-time funding for website and digital upgrades \$345,000

2019-21 Biennium

None \$0

2021-23 Biennium

None \$0

2023-25 Biennium (Executive Budget Recommendation)

None \$0

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744
2023-25 Ongoing Funding Changes								
Base payroll changes		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	8.93			0	8.93			0
Salary increase		1,551,009	1,622,297	3,173,306		1,158,661	1,213,811	2,372,472
Health insurance increase		717,932	714,138	1,432,070		723,217	741,796	1,465,013
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative		1,400,000		1,400,000	2.00	700,000		700,000
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist				0	2.00	500,000		500,000
Adds funding for farm and ranch safety and health initiative				0		250,000		250,000
Program support for 4-H initiative				0	1.00	320,000		320,000
Adds funding for extension and State Soil Conservation Committee operating support				0		300,000		300,000
Total ongoing funding changes	8.93	\$3,896,738	\$2,445,420	\$6,342,158	13.93	\$4,179,675	\$2,064,592	\$6,244,267
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	8.93	\$3,896,738	\$2,445,420	\$6,342,158	13.93	\$4,179,675	\$2,064,592	\$6,244,267
2023-25 Total Funding	250.70	\$33,334,561	\$30,749,341	\$64,083,902	255.70	\$33,617,498	\$30,368,513	\$63,986,011
<i>Federal funds included in other funds</i>			<i>\$9,458,045</i>				<i>\$9,326,767</i>	
<i>Total ongoing changes as a percentage of base level</i>	<i>3.7%</i>	<i>13.2%</i>	<i>8.6%</i>	<i>11.0%</i>	<i>5.8%</i>	<i>14.2%</i>	<i>7.3%</i>	<i>10.8%</i>
<i>Total changes as a percentage of base level</i>	<i>3.7%</i>	<i>13.2%</i>	<i>8.6%</i>	<i>11.0%</i>	<i>5.8%</i>	<i>14.2%</i>	<i>7.3%</i>	<i>10.8%</i>

Other Sections in NDSU Extension Service - Budget No. 630

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.

Other Sections in NDSU Extension Service - Budget No. 630

Executive Budget Recommendation

House Version

FTE position adjustments

Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provide that any adjustments be reported to OMB.

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income

Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

**Department 638 - Northern Crops Institute
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$2,156,538	\$7,488,946	\$9,645,484
2023-25 Base Level	1,987,142	1,922,618	3,909,760
Increase (Decrease)	\$169,396	\$5,566,328	\$5,735,724

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Strategic investment and improvements fund - Section 6 provides \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill is from the strategic investment and improvements fund (SIIF).

Transfer authority - Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, North Dakota State University (NDSU) Extension Service, and Northern Crops Institute and provides that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

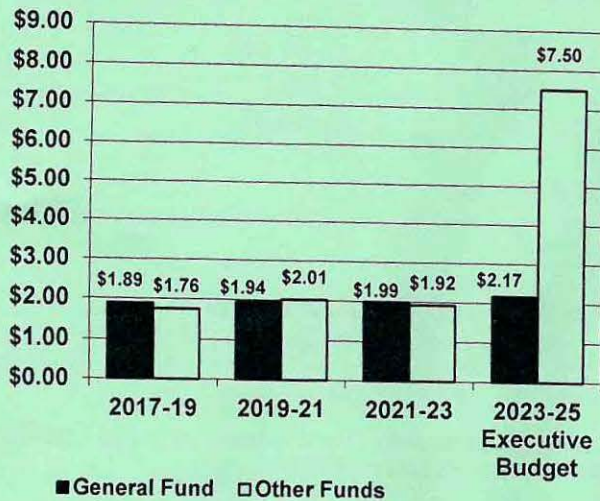
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

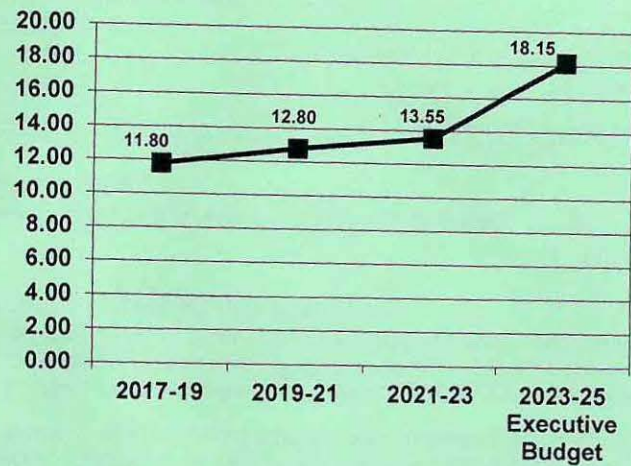
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$1,964,467	\$1,886,891	\$1,943,810	\$1,987,142	\$2,168,893
Increase (decrease) from previous biennium	N/A	(\$77,576)	\$56,919	\$43,332	\$181,751
Percentage increase (decrease) from previous biennium	N/A	(3.9%)	3.0%	2.2%	9.1%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(3.9%)	(1.1%)	1.2%	10.4%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Reduced funding for equipment (\$200,000)
2. Restored funding for operating expenses \$137,691

2019-21 Biennium

- Reduced funding for miscellaneous expenses (\$37,738)

2021-23 Biennium

- None \$0

2023-25 Biennium (Executive Budget Recommendation)

- None \$0

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$0	\$0	\$0	\$0	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium

None

\$0

2019-21 Biennium

None

\$0

2021-23 Biennium

None

\$0

2023-25 Biennium (Executive Budget Recommendation)

None

\$0

Northern Crops Institute - Budget No. 638
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	13.55	\$1,987,142	\$1,922,618	\$3,909,760	13.55	\$1,987,142	\$1,922,618	\$3,909,760
2023-25 Ongoing Funding Changes								
Base payroll changes		\$16,505	\$16,610	\$33,115		\$16,505	\$16,610	\$33,115
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	4.60			0	4.60			0
Salary increase		111,856	115,435	227,291		98,273	102,187	200,460
Health insurance increase		53,390	46,462	99,852		54,618	47,531	102,149
Increases funding from available special funds			1,500,000	1,500,000			1,500,000	1,500,000
Total ongoing funding changes	4.60	\$181,751	\$1,678,507	\$1,860,258	4.60	\$169,396	\$1,666,328	\$1,835,724
One-Time Funding Items								
Adds funding from SIIF for the Feed Production Center facility upgrade			\$3,250,000	\$3,250,000			\$3,250,000	\$3,250,000
Adds funding from SIIF for a new pellet mill			650,000	650,000			650,000	650,000
Total one-time funding changes	0.00	\$0	\$3,900,000	\$3,900,000	0.00	\$0	\$3,900,000	\$3,900,000
Total Changes to Base Level Funding	4.60	\$181,751	\$5,578,507	\$5,760,258	4.60	\$169,396	\$5,566,328	\$5,735,724
2023-25 Total Funding	18.15	\$2,168,893	\$7,501,125	\$9,670,018	18.15	\$2,156,538	\$7,488,946	\$9,645,484
<i>Federal funds included in other funds</i>			\$0	\$0			\$0	\$0
<i>Total ongoing changes as a percentage of base level</i>	33.9%	9.1%	87.3%	47.6%	33.9%	8.5%	86.7%	47.0%
<i>Total changes as a percentage of base level</i>	33.9%	9.1%	290.2%	147.3%	33.9%	8.5%	289.5%	146.7%

Other Sections in Northern Crops Institute - Budget No. 638

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Northern Crops Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill, is from SIIF.	Section 6 provides \$3.9 million for the Northern Crops Institute Feed Production Center and pellet mill is from SIIF.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provide that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Northern Crops Institute and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Northern Crops Institute into the 2025-27 biennium.

**Department 640 - NDSU Main Research Center
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$64,337,334	\$160,561,927	\$224,899,261
2023-25 Base Level	54,588,232	57,087,956	111,676,188
Increase (Decrease)	\$9,749,102	\$103,473,971	\$113,223,073

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

Strategic investment and improvements fund - Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from the strategic investment and improvements fund (SIIF).

Federal State Fiscal Recovery Fund - Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.

Transfer authority - Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to the Office of Management and Budget (OMB).

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income - Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.

Exemption - Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.

Exemption - Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Laws from the 2021-23 biennium to the 2023-25 biennium.

Exemption - Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.

Emergency - Section 14 declares the \$250,000 for a spud research fast track to be an emergency measure.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

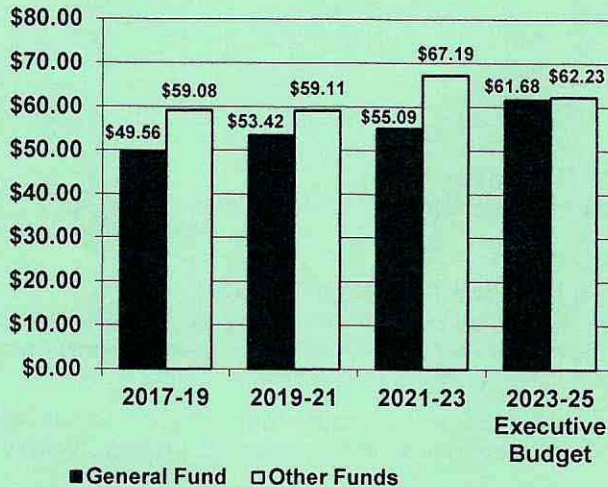
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

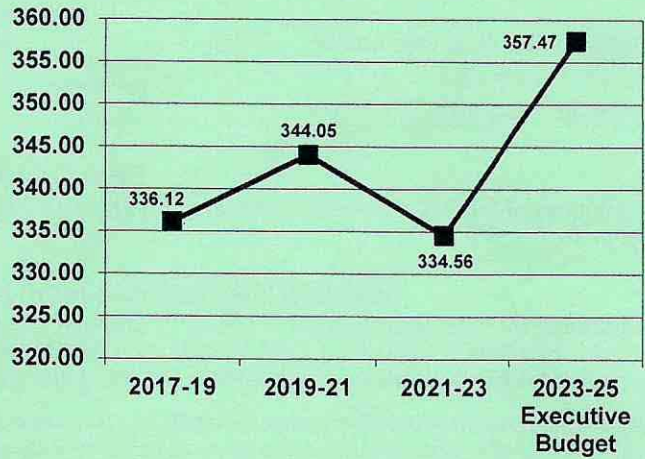
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing general fund appropriations	\$53,581,255	\$49,557,415	\$52,667,326	\$54,588,232	\$61,679,166
Increase (decrease) from previous biennium	N/A	(\$4,023,840)	\$3,109,911	\$1,920,906	\$7,090,934
Percentage increase (decrease) from previous biennium	N/A	(7.5%)	6.3%	3.6%	13.0%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	(7.5%)	(1.7%)	1.9%	15.1%

Major Increases (Decreases) in Ongoing General Fund Appropriations

2017-19 Biennium

1. Reduced funding for salaries and wages, including removal of 17.73 FTE positions (\$1,946,615)
2. Reduced funding for operating expenses (\$355,589)
3. Restored funding for equipment \$260,000
4. Additional budget reductions and funding adjustments (\$3,239,879)

2019-21 Biennium

- Added funding and 4 FTE positions for an agribiome initiative, including \$450,000 for operating expenses \$1,160,000

2021-23 Biennium

- Added funding and 3 FTE positions for a big data initiative \$835,000

2023-25 Biennium (Executive Budget Recommendation)

1. Adds funding for the big data initiative \$838,000
2. Adds funding for climate smart agriculture \$458,200
3. Adds funding for bee and apiary research \$458,200
4. Adds funding for precision agriculture \$600,000

One-Time General Fund Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time general fund appropriations	\$1,617,428	\$0	\$750,000	\$500,000	\$0

Major One-Time General Fund Appropriations

2017-19 Biennium

None

\$0

2019-21 Biennium

Added funding for a seed cleaning plant at the Williston Research Center

\$750,000

2021-23 Biennium

Added funding for deferred maintenance

\$500,000

2023-25 Biennium (Executive Budget Recommendation)

None

\$0

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188
2023-25 Ongoing Funding Changes								
Base payroll changes		\$392,772	\$117,136	\$509,908		\$392,772	\$117,136	\$509,908
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	22.91			0	22.91			0
Salary increase		3,228,061	1,689,401	4,917,462		2,403,437	1,264,212	3,667,649
Health insurance increase		1,293,770	713,216	2,006,986		1,323,532	729,623	2,053,155
Adds funding for the big data initiative		838,000		838,000	1.00	469,000		469,000
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs		458,200		458,200	2.00	458,200		458,200
Adds funding for bee and apiary research, including 1 FTE bee and apiary scientist		458,200		458,200	1.00	262,000		262,000
Adds funding for precision agriculture operating costs		600,000		600,000		600,000		600,000
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)		(178,069)		(178,069)
Adds funding, including \$180,000 for graduate research assistants, \$180,000 in operating support, and \$200,000 for Oakes Irrigation Research Site operating support				0		560,000		560,000
Adds funding for spud research fast track				0	1.00	250,000		250,000
Total ongoing funding changes	22.91	\$7,090,934	\$2,519,753	\$9,610,687	27.91	\$6,540,872	\$2,110,971	\$8,651,843
One-Time Funding Items								
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000			\$1,900,000	\$1,900,000
Adds funding from SIIF for deferred maintenance			720,000	720,000			500,000	500,000
Adds funding for Nesson Valley Irrigation Research Site				0		\$1,200,000		1,200,000
Adds funding for branch research center capital project inflation				0		2,008,230	925,000	2,933,230
Adds funding from the federal State Fiscal Recovery Fund for the Hettinger Research Center land purchase				0			1,038,000	1,038,000
Adds funding from SIIF for the Waldron Hall replacement project				0			97,000,000	97,000,000
Total one-time funding changes	0.00	\$0	\$2,620,000	\$2,620,000	0.00	\$3,208,230	\$101,363,000	\$104,571,230
Total Changes to Base Level Funding	22.91	\$7,090,934	\$5,139,753	\$12,230,687	27.91	\$9,749,102	\$103,473,971	\$113,223,073
2023-25 Total Funding	357.47	\$61,679,166	\$62,227,709	\$123,906,875	362.47	\$64,337,334	\$160,561,927	\$224,899,261
<i>Federal funds included in other funds</i>			\$8,449,779				\$9,358,780	
<i>Total ongoing changes as a percentage of base level</i>	6.8%	13.0%	4.4%	8.6%	8.3%	12.0%	3.7%	7.7%
<i>Total changes as a percentage of base level</i>	6.8%	13.0%	9.0%	11.0%	8.3%	17.9%	181.3%	101.4%

Consider

4-7 looking for

complete projects

Other Sections in NDSU Main Research Center - Budget No. 640

	<u>Executive Budget Recommendation</u>	<u>House Version</u>
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 10 would provide that \$6.52 million, including \$2.62 million for the NDSU Main Research Center deferred maintenance and equipment storage sheds, is from SIIF.	Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from SIIF.
Federal State Fiscal Recovery Fund - Purchase of land		Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 6 would authorize the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provide that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provide that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 8 would authorize the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.
Exemption	Section 9 would allow the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 11 would allow the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption		Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.
Emergency		Section 14 declares the \$250,000 for a spud research fast track to be an emergency measure.

**Department 649 - Agronomy Seed Farm
House Bill No. 1020**

First Chamber Comparison to Base Level

	General Fund	Other Funds	Total
2023-25 First Chamber Version	\$0	\$1,628,794	\$1,628,794
2023-25 Base Level	0	1,579,655	1,579,655
Increase (Decrease)	\$0	\$49,139	\$49,139

First Chamber Changes

A summary of the first chamber's changes to the agency's base level appropriations and the executive budget is attached as an appendix.

Selected Bill Sections Included in the First Chamber Version

Additional income appropriation - Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.

FTE position adjustments - Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provides that any adjustments be reported to the Office of Management and Budget.

Continuing Appropriations

There are no continuing appropriations for this agency.

Deficiency Appropriations

There are no deficiency appropriations for this agency.

Significant Audit Findings

At this time, there are no significant audit findings for this agency.

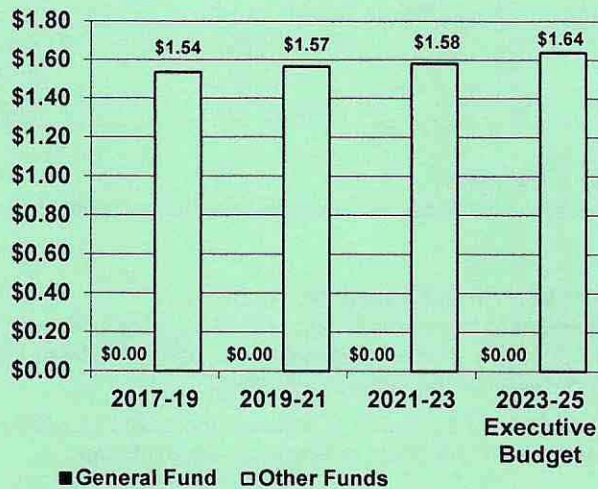
Major Related Legislation

At this time, no major legislation has been introduced affecting this agency.

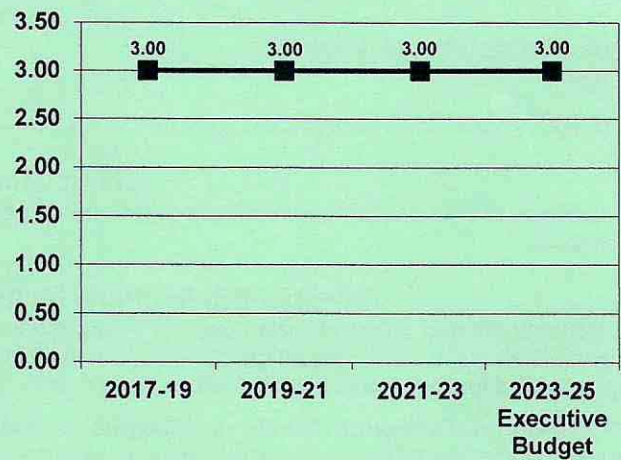
Historical Appropriations Information

Agency Appropriations and FTE Positions

Agency Funding (Millions)



FTE Positions



Ongoing Other Funds Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
Ongoing other funds appropriations	\$1,521,007	\$1,536,129	\$1,565,975	\$1,579,655	\$1,638,076
Increase (decrease) from previous biennium	N/A	\$15,122	\$29,846	\$13,680	\$58,421
Percentage increase (decrease) from previous biennium	N/A	1.0%	1.9%	0.9%	3.7%
Cumulative percentage increase (decrease) from 2015-17 biennium	N/A	1.0%	3.0%	3.9%	7.7%

Major Increases (Decreases) in Ongoing Other Funds Appropriations

2017-19 Biennium	None	\$0
2019-21 Biennium	None	\$0
2021-23 Biennium	None	\$0
2023-25 Biennium (Executive Budget Recommendation)	None	\$0

One-Time Other Funds Appropriations

	2015-17	2017-19	2019-21	2021-23	2023-25 Executive Budget
One-time other funds appropriations	\$0	\$0	\$0	\$0	\$0

Major One-Time Other Funds Appropriations

2017-19 Biennium	None	\$0
2019-21 Biennium	None	\$0

2021-23 Biennium

None

\$0

2023-25 Biennium (Executive Budget Recommendation)

None

\$0

Agronomy Seed Farm - Budget No. 649
House Bill No. 1020
Base Level Funding Changes

	Executive Budget Recommendation				House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	3.00	\$0	\$1,579,655	\$1,579,655	3.00	\$0	\$1,579,655	\$1,579,655
2023-25 Ongoing Funding Changes								
Base payroll changes			\$4,604	\$4,604			\$4,604	\$4,604
Salary increase			38,385	38,385			28,748	28,748
Health insurance increase			15,432	15,432			15,787	15,787
Total ongoing funding changes	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$49,139	\$49,139
One-Time Funding Items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	\$0	\$58,421	\$58,421	0.00	\$0	\$49,139	\$49,139
2023-25 Total Funding	3.00	\$0	\$1,638,076	\$1,638,076	3.00	\$0	\$1,628,794	\$1,628,794
<i>Federal funds included in other funds</i>			\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		3.1%	3.1%
<i>Total changes as a percentage of base level</i>	0.0%		3.7%	3.7%	0.0%		3.1%	3.1%

Other Sections in Agronomy Seed Farm - Budget No. 649

	Executive Budget Recommendation	House Version
Additional income appropriation	Section 3 would provide that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Agronomy Seed Farm, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
FTE position adjustments	Section 7 would authorize the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provide that any adjustments be reported to the Office of Management and Budget.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Agronomy Seed Farm and provides that any adjustments be reported to the Office of Management and Budget.

Upper Great Plains Transportation Institute - Budget No. 627
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	43.88	\$4,485,607	\$19,042,350	\$23,527,957	43.88	\$4,485,607	\$19,042,350	\$23,527,957	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes			\$77,856	\$77,856			\$77,856	\$77,856				\$0
Salary increase		\$174,237	404,585	578,822		\$174,237	404,585	578,822				0
Health insurance increase		69,667	142,980	212,647		69,667	142,980	212,647				0
Adds funding for freight transportation and logistics surveys		300,000		300,000		200,000		200,000		(\$100,000)		(100,000)
Total ongoing funding changes	0.00	\$543,904	\$625,421	\$1,169,325	0.00	\$443,904	\$625,421	\$1,069,325	0.00	(\$100,000)	\$0	(\$100,000)
One-Time Funding Items												
Adds funding for a transportation data intelligence center			\$432,600	\$432,600			\$432,600	\$432,600				\$0
Adds funding for a multimodal carbon dioxide transportation study		\$398,450		398,450		\$0		0		(\$398,450)		(398,450)
Total one-time funding changes	0.00	\$398,450	\$432,600	\$831,050	0.00	\$0	\$432,600	\$432,600	0.00	(\$398,450)	\$0	(\$398,450)
Total Changes to Base Level Funding	0.00	\$942,354	\$1,058,021	\$2,000,375	0.00	\$443,904	\$1,058,021	\$1,501,925	0.00	(\$498,450)	\$0	(\$498,450)
2023-25 Total Funding	43.88	\$5,427,961	\$20,100,371	\$25,528,332	43.88	\$4,929,511	\$20,100,371	\$25,029,882	0.00	(\$498,450)	\$0	(\$498,450)
<i>Federal funds included in other funds</i>			\$12,630,651				\$12,630,651				\$0	
<i>Total ongoing changes as a percentage of base level</i>	0.0%	12.1%	3.3%	5.0%	0.0%	9.9%	3.3%	4.5%				
<i>Total changes as a percentage of base level</i>	0.0%	21.0%	5.6%	8.5%	0.0%	9.9%	5.6%	6.4%				

Other Sections in Upper Great Plains Transportation Institute - Budget No. 627

	House Version	Senate Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.	Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$122,123	\$18,337	\$140,460		\$122,123	\$18,337	\$140,460				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	1.60			0	1.60			0				0
Salary increase		704,177	275,766	979,943		704,177	275,766	979,943				0
Health insurance increase		378,591	165,555	544,146		378,591	165,555	544,146				0
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)		(63,173)		(63,173)				0
Adds funding for one FTE technician position for clubroot fungus at the Langdon Research Center	1.00	250,000		250,000	1.00	176,000		176,000		(74,000)		(74,000)
Adds funding for one FTE agronomist at the Dickinson Research Center				0	1.00	292,000		292,000	1.00	292,000		292,000
Total ongoing funding changes	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$1,609,718	\$459,658	\$2,069,376	1.00	\$218,000	\$0	\$218,000
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$1,609,718	\$459,658	\$2,069,376	1.00	\$218,000	\$0	\$218,000
2023-25 Total Funding	110.81	\$19,961,201	\$21,182,476	\$41,143,677	111.81	\$20,179,201	\$21,182,476	\$41,361,677	1.00	\$218,000	\$0	\$218,000
<i>Federal funds included in other funds</i>			\$0				\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	8.7%	2.2%	5.3%				
<i>Total changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	8.7%	2.2%	5.3%				

Other Sections in Branch research centers - Budget No. 628

	House Version	Senate Version
Dickinson Research Extension Center - Mineral rights income	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.
Williston Research Extension Center - Mineral rights income	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Other Sections in Branch research centers - Budget No. 628

	<u>House Version</u>	<u>Senate Version</u>
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	8.93			0	8.93			0				0
Salary increase		1,158,661	1,213,811	2,372,472		1,158,661	1,213,811	2,372,472				0
Health insurance increase		723,217	741,796	1,465,013		723,217	741,796	1,465,013				0
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative	2.00	700,000		700,000	2.00	480,000		480,000		(220,000)		(220,000)
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist	2.00	500,000		500,000	2.00	500,000		500,000				0
Adds funding for farm and ranch safety and health initiative		250,000		250,000		250,000		250,000				0
Program support for 4-H initiative	1.00	320,000		320,000	1.00	320,000		320,000				0
Adds funding for extension and State Soil Conservation Committee operating support		300,000		300,000		520,000		520,000		220,000		220,000
Total ongoing funding changes	13.93	\$4,179,675	\$2,064,592	\$6,244,267	13.93	\$4,179,675	\$2,064,592	\$6,244,267	0.00	\$0	\$0	\$0
One-Time Funding Items				\$0				\$0				\$0
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	13.93	\$4,179,675	\$2,064,592	\$6,244,267	13.93	\$4,179,675	\$2,064,592	\$6,244,267	0.00	\$0	\$0	\$0
2023-25 Total Funding	255.70	\$33,617,498	\$30,368,513	\$63,986,011	255.70	\$33,617,498	\$30,368,513	\$63,986,011	0.00	\$0	\$0	\$0
<i>Federal funds included in other funds</i>			\$9,326,767				\$9,326,767				\$0	
<i>Total ongoing changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.8%	14.2%	7.3%	10.8%				
<i>Total changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.8%	14.2%	7.3%	10.8%				

Other Sections in NDSU Extension Service - Budget No. 630

	House Version	Senate Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.

Other Sections in NDSU Extension Service - Budget No. 630

House Version

Senate Version

FTE position adjustments

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE	General	Other	Total	FTE	General	Other	Total	FTE	General	Other	Total
	Positions	Fund	Funds		Positions	Fund	Funds		Positions	Fund	Funds	
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$392,772	\$117,136	\$509,908		\$392,772	\$117,136	\$509,908				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	22.91			0	22.91			0				0
Salary increase		2,403,437	1,264,212	3,667,649		2,403,437	1,264,212	3,667,649				0
Health insurance increase		1,323,532	729,623	2,053,155		1,323,532	729,623	2,053,155				0
Adds funding for the big data initiative	1.00	469,000		469,000	1.00	469,000		469,000				0
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs	2.00	458,200		458,200	0.00	0		0	(2.00)	(\$458,200)		(458,200)
Adds funding for bee and apiary research, including 1 FTE bee and apiary scientist	1.00	262,000		262,000	1.00	262,000		262,000				0
Adds funding for precision agriculture operating costs		600,000		600,000		0		0		(600,000)		(600,000)
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)		(178,069)		(178,069)				0
Adds funding, including \$180,000 for graduate research assistants, \$180,000 in operating support, and \$200,000 for Oakes Irrigation Research Site operating support		560,000		560,000		560,000		560,000				0
Adds funding for spud research fast track	1.00	250,000		250,000	0.00	0		0	(1.00)	(250,000)		(250,000)
Total ongoing funding changes	27.91	\$6,540,872	\$2,110,971	\$8,651,843	24.91	\$5,232,672	\$2,110,971	\$7,343,643	(3.00)	(\$1,308,200)	\$0	(\$1,308,200)
One-Time Funding Items												
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000			\$1,900,000	\$1,900,000				\$0
Adds funding from SIIF for deferred maintenance			500,000	500,000			500,000	500,000				0
Adds funding for Nesson Valley Irrigation Research Site		\$1,200,000		1,200,000		\$1,700,000		1,700,000		\$500,000		500,000
Adds funding for branch research center capital project inflation		2,008,230	925,000	2,933,230		2,008,230	925,000	2,933,230				0
Adds funding from the federal State Fiscal Recovery Fund for the Hettinger Research Center land purchase			1,038,000	1,038,000			1,038,000	1,038,000				0
Adds funding from SIIF for the Waldron Hall replacement project			97,000,000	97,000,000			97,000,000	97,000,000				0
Total one-time funding changes	0.00	\$3,208,230	\$101,363,000	\$104,571,230	0.00	\$3,708,230	\$101,363,000	\$105,071,230	0.00	\$500,000	\$0	\$500,000
Total Changes to Base Level Funding	27.91	\$9,749,102	\$103,473,971	\$113,223,073	24.91	\$8,940,902	\$103,473,971	\$112,414,873	(3.00)	(\$808,200)	\$0	(\$808,200)
2023-25 Total Funding	362.47	\$64,337,334	\$160,561,927	\$224,899,261	359.47	\$63,529,134	\$160,561,927	\$224,091,061	(3.00)	(\$808,200)	\$0	(\$808,200)
<i>Federal funds included in other funds</i>			\$9,358,780			\$9,358,780						\$0
<i>Total ongoing changes as a percentage of base level</i>	8.3%	12.0%	3.7%	7.7%	7.4%	9.6%	3.7%	6.6%				
<i>Total changes as a percentage of base level</i>	8.3%	17.9%	181.3%	101.4%	7.4%	16.4%	181.3%	100.7%				

Other Sections in NDSU Main Research Center - Budget No. 640

	House Version	Senate Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from SIIF.	Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from SIIF.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.
Emergency	Section 14 declares the \$250,000 for a spud research fast track to be an emergency measure.	

NDSU WALDRON HALL



Using the
North Dakota
Building Authority

2019 ND Building Authority Legislation

SENATE BILL NO. 2297
(Senators Wardner, Robinson, Sorvaag)
(Representatives Howe, Roers Jones)

AN ACT to provide an appropriation for capital projects of various state departments and institutions; to authorize the industrial commission to issue and sell evidences of indebtedness for capital projects; to provide an exemption; and to declare an emergency.

BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:

SECTION 1. PROJECT AUTHORIZATIONS - APPROPRIATION. Subject to the provisions of this section, the industrial commission, acting as the North Dakota building authority, shall arrange for the funding of the projects authorized in this section, declared to be in the public interest, through the issuance of evidences of indebtedness under chapter 54-17.2, beginning with the effective date of this Act and ending June 30, 2021. The industrial commission shall issue evidences of indebtedness under this section with the condition that lease rental payments need not begin until July 1, 2021. The authority of the industrial commission to issue evidences of indebtedness under this section ends June 30, 2021, but the industrial commission may continue to exercise all other powers granted to it under chapter 54-17.2 and this Act and comply with any covenants entered before that date. The proceeds of the evidences of indebtedness and other available funds are appropriated to the agencies listed in this section, beginning with the effective date of this Act and ending June 30, 2021, for the following projects:

North Dakota state university Dunbar Hall	\$40,000,000
Valley City state university Communications and Fine Arts Building project	30,000,000
North Dakota state university agriculture products development center	20,000,000
University of North Dakota Gamble Hall project	6,000,000
Dickinson state university Pulver Hall	4,000,000
Total	\$100,000,000

2023 NDBA Bond Payments HB 1014

11 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

12 **SECTION 1. APPROPRIATION.** The funds provided in this section, or so much of the funds
 13 as may be necessary, are appropriated out of any moneys in the general fund in the state
 14 treasury, not otherwise appropriated, and from special funds derived from federal funds and
 15 other income, to the industrial commission and agencies under its control for the purpose of
 16 defraying the expenses of the industrial commission and the agencies under its control, for the
 17 biennium beginning July 1, 2023, and ending June 30, 2025, as follows:

18 Subdivision 1.

19 **INDUSTRIAL COMMISSION**

		Adjustments or	
	<u>Base Level</u>	<u>Enhancements</u>	<u>Appropriation</u>
22 Salaries and wages	\$23,698,119	(\$21,226,883)	\$2,471,236
23 Operating expenses	5,119,958	(1,412,940)	3,707,018
24 Capital assets	0	1,250,000	1,250,000

Page No. 1 23.0243.02000

Sixty-eighth
Legislative Assembly

1 Grants	0	33,623,893	33,623,893
2 Grants - bond payments	<u>22,040,721</u>	<u>97,839,192</u>	<u>119,879,913</u>

2023 Bond Payments HB 1014

1 **SECTION 3. BOND PAYMENTS.** The amount of \$119,879,913 included in subdivision 1 of
2 section 1 of this Act in the grants - bond payments line item **must be paid from the following**
3 **funding sources, during the biennium beginning July 1, 2023, and ending June 30, 2025:**

4	Infrastructure project and program bonds - legacy earnings fund	\$102,620,461
5	North Dakota university system	15,021,771
6	North Dakota university system - energy conservation projects	207,649
7	Department of corrections and rehabilitation	143,375
8	Office of management and budget	283,875
9	Attorney general's office	330,000
10	State historical society	592,375
11	Parks and recreation department	30,950
12	Agriculture research and extension service	242,205
13	Veterans' home	<u>407,252</u>
14	Total	\$119,879,913

POTENTIAL BOND TERMS

	December 2023	September 2024
Issue Date		
Bond Size	\$9,790,000	\$9,485,000
Capitalized Interest	\$734,250	\$355,688
Bond Term	20 years	20 years
Final Payment	12/1/2043	12/1/2044
Net Interest Cost	4.39%	4.43%
Average Debt Service:		
Annual	\$794,825	\$758,100
Biennial	\$1,589,650	\$1,516,200

BOND SIZING

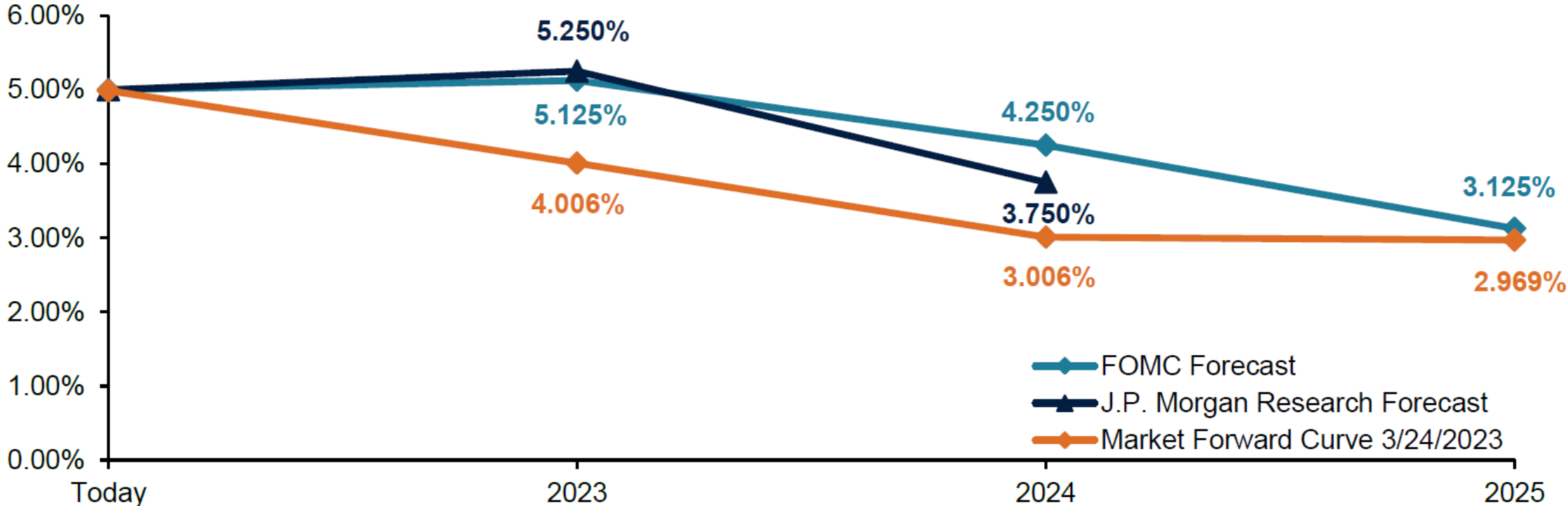
Sources:

Bond Proceeds:	
Par Amount	9,485,000.00
Premium	750,262.30
	<hr/>
	10,235,262.30
	<hr/> <hr/>

Uses:

Project Fund Deposits:	
Project Fund	9,700,000.00
Other Fund Deposits:	
Capitalized Interest Fund	355,687.50
Delivery Date Expenses:	
Cost of Issuance	100,000.00
Underwriter's Discount	75,880.00
	<hr/>
	175,880.00
Other Uses of Funds:	
Additional Proceeds	3,694.80
	<hr/>
	10,235,262.30
	<hr/> <hr/>

FOMC Year-End Fed Funds Projections



QUESTIONS?

NORTH
Dakota | Public Finance Authority
Be Legendary.™



DeAnn Ament, CPA CGMA

Executive Director

North Dakota Public Finance Authority

1200 Memorial Hwy

PO Box 5509

Bismarck, ND 58506-5509

701-426-5723

dament@nd.gov

23.0249.02002
Title.

Prepared by the Legislative Council staff for
the Senate Appropriations - Government
Operations Division Committee
March 30, 2023

Fiscal No. 1

PROPOSED AMENDMENTS TO ENGROSSED HOUSE BILL NO. 1020

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,207,613	\$58,737,837
Soil conservation committee	1,211,520	300,000	1,511,520
Total all funds	\$57,741,744	\$2,507,613	\$60,249,357
Less estimated income	28,303,921	682,222	28,986,143
Total general fund	\$29,437,823	\$1,825,391	\$31,263,214
Full-time equivalent positions	241.77	12.93	254.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,640,941	\$9,550,701
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	1,922,618	5,517,827	7,440,445
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$1,570,236	\$25,098,193
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	19,042,350	959,427	20,001,777
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$108,088,315	\$219,764,503
Total all funds	\$111,676,188	\$108,088,315	\$219,764,503

Less estimated income	<u>57,087,956</u>	<u>102,538,358</u>	<u>159,626,314</u>
Total general fund	\$54,588,232	\$5,549,957	\$60,138,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	<u>9,827,963</u>	<u>239,286</u>	<u>10,067,249</u>
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>228,047</u>	<u>20,950,865</u>
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	<u>\$1,579,655</u>	<u>\$50,109</u>	<u>\$1,629,764</u>
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,705,128	\$117,773,415
Grand total other funds	<u>128,659,318</u>	<u>109,975,990</u>	<u>238,635,308</u>
Grand total all funds	\$237,727,605	\$118,681,118	\$356,408,723"

Page 4, replace line 4 with:

"Deferred maintenance	\$500,000	\$1,000,000"
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Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project	0	1,700,000"
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Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,903,830
Total other funds	<u>12,327,000</u>	<u>106,195,600</u>
Total general fund	\$500,000	\$3,708,230"

Page 5, line 24, replace "\$99,400,000" with "\$89,900,000"

Page 7, line 12, replace "\$2,400,000" with "\$2,900,000"

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron Hall replacement project"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Transportation Institute				
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	<u>19,042,350</u>	<u>20,100,371</u>	<u>(98,594)</u>	<u>20,001,777</u>
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416
FTE	43.88	43.88	0.00	43.88
Branch Research Centers				
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>21,182,476</u>	<u>(231,611)</u>	<u>20,950,865</u>
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340
FTE	108.21	110.81	1.00	111.81
NDSU Extension Service				
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	<u>28,303,921</u>	<u>30,368,513</u>	<u>(1,382,370)</u>	<u>28,986,143</u>
General fund	\$29,437,823	\$33,617,498	(\$2,354,284)	\$31,263,214
FTE	241.77	255.70	(1.00)	254.70
Northern Crops Institute				
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	<u>1,922,618</u>	<u>7,488,946</u>	<u>(48,501)</u>	<u>7,440,445</u>
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256
FTE	13.55	18.15	0.00	18.15
Main Research Center				
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	<u>57,087,956</u>	<u>160,561,927</u>	<u>(935,613)</u>	<u>159,626,314</u>
General fund	\$54,588,232	\$64,337,334	(\$4,199,145)	\$60,138,189
FTE	334.56	362.47	(4.00)	358.47
Agronomy Seed Farm				
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	<u>1,579,655</u>	<u>1,628,794</u>	<u>970</u>	<u>1,629,764</u>
General fund	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00
Bill total				
Total all funds	\$237,727,605	\$366,831,559	(\$10,422,836)	\$356,408,723
Less estimated income	<u>128,659,318</u>	<u>241,331,027</u>	<u>(2,695,719)</u>	<u>238,635,308</u>
General fund	\$109,068,287	\$125,500,532	(\$7,727,117)	\$117,773,415
FTE	744.97	794.01	(4.00)	790.01

House Bill No. 1020 - Transportation Institute - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Upper Great Plains Trans. Institute	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416
FTE	43.88	43.88	0.00	43.88

Department 627 - Transportation Institute - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Senate Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed by the Senate.

House Bill No. 1020 - Branch Research Centers - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340
FTE	108.21	110.81	1.00	111.81

Department 628 - Branch Research Centers - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Senate Changes
Dickinson Research Center	\$38,976		\$292,000	(\$391,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$292,000	(\$1,561,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$292,000	(\$1,241,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance increase	<u>(1,657)</u>	<u>0</u>	<u>(1,657)</u>
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance increase	<u>(887)</u>	<u>(59)</u>	<u>(946)</u>
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance increase	<u>(1,082)</u>	<u>(742)</u>	<u>(1,824)</u>
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance increase	<u>(750)</u>	<u>(315)</u>	<u>(1,065)</u>
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance increase	<u>(910)</u>	<u>(746)</u>	<u>(1,656)</u>
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance increase	<u>(1,302)</u>	<u>(236)</u>	<u>(1,538)</u>
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance increase	<u>(1,925)</u>	<u>(1,625)</u>	<u>(3,550)</u>
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance increase	<u>(8,513)</u>	<u>(3,723)</u>	<u>(12,236)</u>
Total	\$227,458	\$88,201	\$315,659

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$292,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
New FTE positions	(\$252,000)	\$0	(\$252,000)
Vacant FTE positions	(139,802)	0	(139,802)
Total	(\$391,802)	\$0	(\$391,802)
Central Grasslands Research Center			
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)
Hettinger Research Center			
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)
Langdon Research Center			
New FTE positions	(\$176,000)	\$0	(\$176,000)
Vacant FTE positions	(72,245)	(24,665)	(96,910)
Total	(\$248,245)	(\$24,665)	(\$272,910)
North Central Research Center			
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)
Williston Research Center			
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)
Carrington Research Center			
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)
Total Branch Research Centers			
New FTE positions	(\$428,000)	\$0	(\$428,000)
Vacant FTE positions	(813,319)	(319,812)	(1,133,131)
Total	(\$1,241,319)	(\$319,812)	(\$1,561,131)

House Bill No. 1020 - NDSU Extension Service - Senate Action

	<u>Base Budget</u>	<u>House Version</u>	<u>Senate Changes</u>	<u>Senate Version</u>
Extension Service	\$56,530,224	\$62,624,491	(\$3,886,654)	\$58,737,837
Soil Conservation Committee	1,211,520	1,361,520	150,000	1,511,520
Total all funds	\$57,741,744	\$63,986,011	(\$3,736,654)	\$60,249,357
Less estimated income	28,303,921	30,368,513	(1,382,370)	28,986,143
General fund	\$29,437,823	\$33,617,498	(\$2,354,284)	\$31,263,214
FTE	241.77	255.70	(1.00)	254.70

Department 630 - NDSU Extension Service - Detail of Senate Changes

	<u>Adjusts Funding for Salary and Benefit Increases¹</u>	<u>Reduces Funding for the Cropping System Initiative²</u>	<u>Removes New FTE Position for the 4-H Initiative³</u>	<u>Increases Funding for Operations⁴</u>	<u>Removes Salary Funding for Funding Pool⁵</u>	<u>Total Senate Changes</u>
Extension Service	\$767,891	(\$220,000)	(\$240,000)	\$70,000	(\$4,264,545)	(\$3,886,654)
Soil Conservation Committee				150,000		150,000
Total all funds	\$767,891	(\$220,000)	(\$240,000)	\$220,000	(\$4,264,545)	(\$3,736,654)
Less estimated income	380,828	0	0	0	(1,763,198)	(1,382,370)
General fund	\$387,063	(\$220,000)	(\$240,000)	\$220,000	(\$2,501,347)	(\$2,354,284)
FTE	0.00	0.00	(1.00)	0.00	0.00	(1.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$220,000 from the general fund to provide a total of \$480,000 for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

³ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE added by the House for the 4-H initiative. The Senate did not remove \$80,000 from the general fund added by the House for 4-H operating expenses.

⁴ Funding of \$220,000 from the general fund is added for operating support, including \$70,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee, to provide a total of \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁵ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$820,000)	\$0	(\$820,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,501,347)	(\$1,763,198)	(\$4,264,545)

House Bill No. 1020 - Northern Crops Institute - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256
FTE	13.55	18.15	0.00	18.15

Department 638 - Northern Crops Institute - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases¹	Removes Salary Funding for Funding Pool²	Total Senate Changes
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$13,593	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Senate Action

	Base Budget	House Version	Senate Changes	Senate Version
Main Research Center	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Total all funds	\$111,676,188	\$224,899,261	(\$5,134,758)	\$219,764,503
Less estimated income	57,087,956	160,561,927	(935,613)	159,626,314
General fund	\$54,588,232	\$64,337,334	(\$4,199,145)	\$60,138,189
FTE	334.56	362.47	(4.00)	358.47

Department 640 - Main Research Center - Detail of Senate Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Funding for the Climate Smart Agriculture Initiative ²	Removes Funding for Bee and Apiary Research ³	Removes Funding for Precision Agriculture ⁴	Adjusts Funding for Operations ⁵	Removes Funding for the Spud Research Fast Track ⁶
Main Research Center	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Total all funds	\$1,203,644	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)	(\$250,000)
FTE	0.00	(2.00)	(1.00)	0.00	0.00	(1.00)

	Removes Salary Funding for Pool ⁷	Increases Funding for Deferred Maintenance ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Senate Changes
Main Research Center	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Total all funds	(\$5,608,202)	\$500,000	\$500,000	(\$5,134,758)
Less estimated income	(1,844,395)	500,000	0	(935,613)
General fund	(\$3,763,807)	\$0	\$500,000	(\$4,199,145)
FTE	0.00	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed by the Senate.

³ Funding of \$262,000 from the general fund and 1 new FTE added by the House for bee and apiary research are removed by the Senate.

⁴ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed by the Senate.

⁵ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed by the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁶ Funding of \$250,000 from the general fund and 1 new FTE added by the House for a spud research fast track are removed by the Senate.

⁷ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
New FTE positions	(\$269,000)	\$0	(\$269,000)
Vacant FTE positions	<u>(3,494,807)</u>	<u>(1,844,395)</u>	<u>(5,339,202)</u>
Total	(\$3,763,807)	(\$1,844,395)	(\$5,608,202)

⁸ One-time funding is increased by \$500,000 from the strategic investment and improvements fund (SIIF) to provide a total of \$1 million for deferred maintenance. The House provided \$500,000 from SIIF for deferred maintenance.

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Senate Action

	<u>Base Budget</u>	<u>House Version</u>	<u>Senate Changes</u>	<u>Senate Version</u>
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764
Less estimated income	<u>1,579,655</u>	<u>1,628,794</u>	970	<u>1,629,764</u>
General fund	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00

Department 649 - Agronomy Seed Farm - Detail of Senate Changes

	<u>Adjusts Funding for Salary and Benefit Increases¹</u>	<u>Removes Salary Funding for Funding Pool²</u>	<u>Total Senate Changes</u>
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	<u>9,282</u>	<u>(8,312)</u>	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates as follows:

	<u>Other Funds</u>
Salary increase	\$9,637
Health insurance adjustment	<u>(355)</u>
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>Other Funds</u>
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Senate Action

This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure.

Upper Great Plains Transportation Institute - Budget No. 627
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	43.88	\$4,485,607	\$19,042,350	\$23,527,957	43.88	\$4,485,607	\$19,042,350	\$23,527,957	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes			\$77,856	\$77,856			\$77,856	\$77,856				\$0
Salary increase		\$174,237	404,585	578,822		\$237,004	546,153	783,157		62,767	141,568	204,335
Health insurance increase		69,667	142,980	212,647		68,100	139,764	207,864		(1,567)	(3,216)	(4,783)
Adds funding for freight transportation and logistics surveys		300,000		300,000		408,000		408,000		\$108,000		108,000
Removes salary funding for funding pool				0		(102,295)	(236,946)	(339,241)		(\$102,295)	(236,946)	(339,241)
Total ongoing funding changes	0.00	\$543,904	\$625,421	\$1,169,325	0.00	\$610,809	\$526,827	\$1,137,636	0.00	\$66,905	(\$98,594)	(\$31,689)
One-Time Funding Items												
Adds funding for a transportation data intelligence center			\$432,600	\$432,600			\$432,600	\$432,600				\$0
Adds funding for a multimodal carbon dioxide transportation study		\$398,450		398,450		\$0		0		(\$398,450)		(398,450)
Total one-time funding changes	0.00	\$398,450	\$432,600	\$831,050	0.00	\$0	\$432,600	\$432,600	0.00	(\$398,450)	\$0	(\$398,450)
Total Changes to Base Level Funding	0.00	\$942,354	\$1,058,021	\$2,000,375	0.00	\$610,809	\$959,427	\$1,570,236	0.00	(\$331,545)	(\$98,594)	(\$430,139)
2023-25 Total Funding	43.88	\$5,427,961	\$20,100,371	\$25,528,332	43.88	\$5,096,416	\$20,001,777	\$25,098,193	0.00	(\$331,545)	(\$98,594)	(\$430,139)
<i>Federal funds included in other funds</i>			\$12,630,651				\$12,571,495				(\$59,156)	
<i>Total ongoing changes as a percentage of base level</i>	0.0%	12.1%	3.3%	5.0%	0.0%	13.6%	2.8%	4.8%				
<i>Total changes as a percentage of base level</i>	0.0%	21.0%	5.6%	8.5%	0.0%	13.6%	5.0%	6.7%				

Other Sections in Upper Great Plains Transportation Institute - Budget No. 627

	House Version	Senate Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Upper Great Plains Transportation Institute, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.	Section 6 provides that \$432,600 for the transportation data intelligence center is from the strategic investment and improvements fund.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Upper Great Plains Transportation Institute and provides that any adjustments be reported to the Office of Management and Budget.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Upper Great Plains Transportation Institute into the 2025-27 biennium.

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	Increase (Decrease) - House Version			
									FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$122,123	\$18,337	\$140,460		\$122,123	\$18,337	\$140,460				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	1.60			0	1.60			0				0
Salary increase		704,177	275,766	979,943		940,148	367,690	1,307,838		235,971	91,924	327,895
Health insurance increase		378,591	165,555	544,146		370,078	161,832	531,910		(8,513)	(3,723)	(12,236)
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)		(63,173)		(63,173)				0
Adds funding for one FTE technician position for clubroot fungus at the Langdon Research Center	1.00	250,000		250,000	1.00	176,000		176,000		(74,000)		(74,000)
Adds funding for one FTE agronomist at the Dickinson Research Center				0	1.00	292,000		292,000	1.00	292,000		292,000
Removes salary funding for funding pool				0		(1,241,319)	(319,812)	(1,561,131)		(1,241,319)	(319,812)	(1,561,131)
Total ongoing funding changes	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$595,857	\$228,047	\$823,904	1.00	(\$795,861)	(\$231,611)	(\$1,027,472)
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$595,857	\$228,047	\$823,904	1.00	(\$795,861)	(\$231,611)	(\$1,027,472)
2023-25 Total Funding	110.81	\$19,961,201	\$21,182,476	\$41,143,677	111.81	\$19,165,340	\$20,950,865	\$40,116,205	1.00	(\$795,861)	(\$231,611)	(\$1,027,472)
<i>Federal funds included in other funds</i>			\$0				\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	3.2%	1.1%	2.1%				
<i>Total changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	3.2%	1.1%	2.1%				

Other Sections in Branch research centers - Budget No. 628

	House Version	Senate Version
Dickinson Research Extension Center - Mineral rights income	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.
Williston Research Extension Center - Mineral rights income	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.

Other Sections in Branch research centers - Budget No. 628

	<u>House Version</u>	<u>Senate Version</u>
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	8.93			0	8.93			0				0
Salary increase		1,158,661	1,213,811	2,372,472		1,551,009	1,622,297	3,173,306		392,348	408,486	800,834
Health insurance increase		723,217	741,796	1,465,013		717,932	714,138	1,432,070		(5,285)	(27,658)	(32,943)
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative	2.00	700,000		700,000	2.00	480,000		480,000		(220,000)		(220,000)
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist	2.00	500,000		500,000	2.00	500,000		500,000				0
Adds funding for farm and ranch safety and health initiative		250,000		250,000		250,000		250,000				0
Program support for 4-H initiative	1.00	320,000		320,000	0.00	80,000		80,000	(1.00)	(240,000)		(240,000)
Adds funding for extension and State Soil Conservation Committee operating support		300,000		300,000		520,000		520,000		220,000		220,000
Removes salary funding for funding pool				0		(2,501,347)	(1,763,198)	(4,264,545)		(2,501,347)	(1,763,198)	(4,264,545)
Total ongoing funding changes	13.93	\$4,179,675	\$2,064,592	\$6,244,267	12.93	\$1,825,391	\$682,222	\$2,507,613	(1.00)	(\$2,354,284)	(\$1,382,370)	(\$3,736,654)
One-Time Funding Items				\$0				\$0				\$0
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	13.93	\$4,179,675	\$2,064,592	\$6,244,267	12.93	\$1,825,391	\$682,222	\$2,507,613	(1.00)	(\$2,354,284)	(\$1,382,370)	(\$3,736,654)
2023-25 Total Funding	255.70	\$33,617,498	\$30,368,513	\$63,986,011	254.70	\$31,263,214	\$28,986,143	\$60,249,357	(1.00)	(\$2,354,284)	(\$1,382,370)	(\$3,736,654)
<i>Federal funds included in other funds</i>			\$9,326,767				\$8,824,965				(\$501,802)	
<i>Total ongoing changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.3%	6.2%	2.4%	4.3%				
<i>Total changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.3%	6.2%	2.4%	4.3%				

Other Sections in NDSU Extension Service - Budget No. 630

	House Version	Senate Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.

Other Sections in NDSU Extension Service - Budget No. 630

House Version

Senate Version

FTE position adjustments

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.

Unexpended general fund - Excess income

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Senate Changes to House Version Increase (Decrease) - House Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188	0.00	\$0	\$0	\$0
2023-25 Ongoing Funding Changes												
Base payroll changes		\$392,772	\$117,136	\$509,908		\$392,772	\$117,136	\$509,908				\$0
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	22.91			0	22.91			0				0
Salary increase		2,403,437	1,264,212	3,667,649		3,228,061	1,689,401	4,917,462		824,624	425,189	1,249,813
Health insurance increase		1,323,532	729,623	2,053,155		1,293,770	713,216	2,006,986		(29,762)	(16,407)	(46,169)
Adds funding for the big data initiative	1.00	469,000		469,000	1.00	469,000		469,000				0
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs	2.00	458,200		458,200	0.00	0		0	(2.00)	(\$458,200)		(458,200)
Adds funding for bee and apiary research, including 1 FTE bee and apiary scientist	1.00	262,000		262,000	0.00	0		0	(1.00)	(262,000)		(262,000)
Adds funding for precision agriculture operating costs		600,000		600,000		0		0		(600,000)		(600,000)
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)		(178,069)		(178,069)				0
Adds funding for operations, including funding for Oakes Irrigation Research Site operating support		560,000		560,000		400,000		400,000		(160,000)		(160,000)
Adds funding for spud research fast track	1.00	250,000		250,000	0.00	0		0	(1.00)	(250,000)		(250,000)
Removes salary funding for funding pool				0		(3,763,807)	(1,844,395)	(5,608,202)		(3,763,807)	(1,844,395)	(5,608,202)
Total ongoing funding changes	27.91	\$6,540,872	\$2,110,971	\$8,651,843	23.91	\$1,841,727	\$675,358	\$2,517,085	(4.00)	(\$4,699,145)	(\$1,435,613)	(\$6,134,758)
One-Time Funding Items												
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000			\$1,900,000	\$1,900,000				\$0
Adds funding from SIIF for deferred maintenance			500,000	500,000			1,000,000	1,000,000			500,000	500,000
Adds funding for Nesson Valley Irrigation Research Site		\$1,200,000		1,200,000		\$1,700,000		1,700,000		\$500,000		500,000
Adds funding for branch research center capital project inflation		2,008,230	925,000	2,933,230		2,008,230	925,000	2,933,230				0
Adds funding from the federal State Fiscal Recovery Fund for the Hettinger Research Center land purchase			1,038,000	1,038,000			1,038,000	1,038,000				0
Adds funding from SIIF and other funds for the Waldron Hall replacement project			97,000,000	97,000,000			97,000,000	97,000,000				0
Total one-time funding changes	0.00	\$3,208,230	\$101,363,000	\$104,571,230	0.00	\$3,708,230	\$101,863,000	\$105,571,230	0.00	\$500,000	\$500,000	\$1,000,000
Total Changes to Base Level Funding	27.91	\$9,749,102	\$103,473,971	\$113,223,073	23.91	\$5,549,957	\$102,538,358	\$108,088,315	(4.00)	(\$4,199,145)	(\$935,613)	(\$5,134,758)
2023-25 Total Funding	362.47	\$64,337,334	\$160,561,927	\$224,899,261	358.47	\$60,138,189	\$159,626,314	\$219,764,503	(4.00)	(\$4,199,145)	(\$935,613)	(\$5,134,758)
<i>Federal funds included in other funds</i>			\$9,358,780				\$8,918,293				(\$440,487)	
<i>Total ongoing changes as a percentage of base level</i>	8.3%	12.0%	3.7%	7.7%	7.1%	3.4%	1.2%	2.3%				
<i>Total changes as a percentage of base level</i>	8.3%	17.9%	181.3%	101.4%	7.1%	10.2%	179.6%	96.8%				

Other Sections in NDSU Main Research Center - Budget No. 640

	<u>House Version</u>	<u>Senate Version</u>
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.
Strategic investment and improvements fund	Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from SIIF.	Section 6 provides that \$89.9 million, including \$87 million for the Main Research Center Waldron Hall replacement, \$1 million for deferred maintenance, and \$1.9 million for equipment storage sheds is from SIIF.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.
Exemption	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.
Emergency	Section 14 declares the \$250,000 for a spud research fast track to be an emergency measure.	Section 14 declares the \$97 million for the Waldron Hall replacement project to be an emergency measure.

Branch research centers - Budget No. 628
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Conference Committee Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301	108.21	\$18,569,483	\$20,722,818	\$39,292,301
2023-25 Ongoing Funding Changes												
Base payroll changes		\$122,123	\$18,337	\$140,460		\$122,123	\$18,337	\$140,460		\$122,123	\$18,337	\$140,460
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	1.60			0	1.60			0	1.60			0
Salary increase		704,177	275,766	979,943		940,148	367,690	1,307,838		940,148	367,690	1,307,838
Health insurance increase		378,591	165,555	544,146		370,078	161,832	531,910		370,078	161,832	531,910
Reduces funding for bond payments to provide a total of \$63,728		(63,173)		(63,173)		(63,173)		(63,173)		(63,173)		(63,173)
Adds funding for one FTE technician position for clubroot fungus at the Langdon Research Center	1.00	250,000		250,000	1.00	176,000		176,000	1.00	176,000		176,000
Adds funding for one FTE agronomist at the Dickinson Research Center				0	1.00	292,000		292,000	1.00	250,000		250,000
Removes salary funding for funding pool				0		(1,241,319)	(319,812)	(1,561,131)		(1,199,319)	(319,812)	(1,519,131)
Total ongoing funding changes	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$595,857	\$228,047	\$823,904	3.60	\$595,857	\$228,047	\$823,904
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	2.60	\$1,391,718	\$459,658	\$1,851,376	3.60	\$595,857	\$228,047	\$823,904	3.60	\$595,857	\$228,047	\$823,904
2023-25 Total Funding	110.81	\$19,961,201	\$21,182,476	\$41,143,677	111.81	\$19,165,340	\$20,950,865	\$40,116,205	111.81	\$19,165,340	\$20,950,865	\$40,116,205
<i>Federal funds included in other funds</i>			\$0				\$0				\$0	
<i>Total ongoing changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	3.2%	1.1%	2.1%	3.3%	3.2%	1.1%	2.1%
<i>Total changes as a percentage of base level</i>	2.4%	7.5%	2.2%	4.7%	3.3%	3.2%	1.1%	2.1%	3.3%	3.2%	1.1%	2.1%

Other Sections in Branch research centers - Budget No. 628

	House Version	Senate Version	Conference Committee Version
Dickinson Research Extension Center - Mineral rights income	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	Section 3 authorizes the Dickinson Research Extension Center to spend up to \$755,000 of revenue received during the 2023-25 biennium from mineral royalties, leases, or easements for ongoing operational expenses. Any revenues received in excess of \$755,000 may be spent only for one-time expenditures for the 2023-25 biennium.	The conference committee did not change this section.
Williston Research Extension Center - Mineral rights income	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	Section 4 directs the Williston Research Extension Center to report to the 69th Legislative Assembly on amounts received and spent from mineral royalties, leases, or easements in the 2021-23 biennium and the 2023-25 biennium.	The conference committee did not change this section.

Other Sections in Branch research centers - Budget No. 628

	<u>House Version</u>	<u>Senate Version</u>	<u>Conference Committee Version</u>
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the branch research centers, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	The conference committee did not change this section.
Strategic investment and improvements fund	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.	Section 6 provides that funding for the Main Research Center deferred maintenance and equipment storage sheds is from the strategic investment and improvements fund.	The conference committee reduced the appropriation for deferred maintenance from \$1 million to \$500,000.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that funding for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	The conference committee did not change this section.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	The conference committee did not change this section.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the branch research centers and provides that any adjustments be reported to OMB.	The conference committee did not change this section.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the branch research centers into the 2025-27 biennium.	The conference committee did not change this section.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	The conference committee did not change this section.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	The conference committee did not change this section.
Exemption	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend funds for deferred maintenance and storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	The conference committee reduced the appropriation for deferred maintenance from \$1 million to \$500,000.

NDSU Extension Service - Budget No. 630
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Conference Committee Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744	241.77	\$29,437,823	\$28,303,921	\$57,741,744
2023-25 Ongoing Funding Changes												
Base payroll changes		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782		\$227,797	\$108,985	\$336,782
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	8.93			0	8.93			0	8.93			0
Salary increase		1,158,661	1,213,811	2,372,472		1,551,009	1,622,297	3,173,306		1,551,009	1,622,297	3,173,306
Health insurance increase		723,217	741,796	1,465,013		717,932	714,138	1,432,070		717,932	714,138	1,432,070
Retirement contribution increase				0				0				0
Adds funding for soybean pathologist, weed specialist, and the cropping system initiative	2.00	700,000		700,000	2.00	480,000		480,000	1.00	240,000		240,000
Adds funding for livestock development initiative, veterinary epidemiologist, and swine specialist	2.00	500,000		500,000	2.00	500,000		500,000	1.00	250,000		250,000
Adds funding for farm and ranch safety and health initiative		250,000		250,000		250,000		250,000		125,000		125,000
Program support for 4-H initiative	1.00	320,000		320,000	0.00	80,000		80,000	0.00	80,000		80,000
Adds funding for extension and State Soil Conservation Committee operating support		300,000		300,000		520,000		520,000		370,000		370,000
Removes salary funding for funding pool				0		(2,501,347)	(1,763,198)	(4,264,545)		(2,091,347)	(1,763,198)	(3,854,545)
Total ongoing funding changes	13.93	\$4,179,675	\$2,064,592	\$6,244,267	12.93	\$1,825,391	\$682,222	\$2,507,613	10.93	\$1,470,391	\$682,222	\$2,152,613
One-Time Funding Items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	13.93	\$4,179,675	\$2,064,592	\$6,244,267	12.93	\$1,825,391	\$682,222	\$2,507,613	10.93	\$1,470,391	\$682,222	\$2,152,613
2023-25 Total Funding	255.70	\$33,617,498	\$30,368,513	\$63,986,011	254.70	\$31,263,214	\$28,986,143	\$60,249,357	252.70	\$30,908,214	\$28,986,143	\$59,894,357
<i>Federal funds included in other funds</i>			\$9,326,767				\$8,824,965				\$8,824,965	
<i>Total ongoing changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.3%	6.2%	2.4%	4.3%	4.5%	5.0%	2.4%	3.7%
<i>Total changes as a percentage of base level</i>	5.8%	14.2%	7.3%	10.8%	5.3%	6.2%	2.4%	4.3%	4.5%	5.0%	2.4%	3.7%

Other Sections in NDSU Extension Service - Budget No. 630

	House Version	Senate Version	Conference Committee Version
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the NDSU Extension Service, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	The conference committee did not change this section.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	The conference committee did not change this section.

Other Sections in NDSU Extension Service - Budget No. 630

	<u>House Version</u>	<u>Senate Version</u>	<u>Conference Committee Version</u>
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the NDSU Extension Service and provides that any adjustments be reported to OMB.	The conference committee did not change this section.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the NDSU Extension Service into the 2025-27 biennium.	The conference committee did not change this section.

NDSU Main Research Center - Budget No. 640
House Bill No. 1020
Base Level Funding Changes

	House Version				Senate Version				Conference Committee Version			
	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total	FTE Positions	General Fund	Other Funds	Total
2023-25 Biennium Base Level	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188	334.56	\$54,588,232	\$57,087,956	\$111,676,188
2023-25 Ongoing Funding Changes												
Base payroll changes		\$392,772	\$117,136	\$509,908		\$392,772	\$117,136	\$509,908		\$392,772	\$117,136	\$509,908
Increases FTE positions pursuant to Section 8 of Senate Bill No. 2020 (2021)	22.91			0	22.91			0	22.91			0
Salary increase		2,403,437	1,264,212	3,667,649		3,228,061	1,689,401	4,917,462		3,228,061	1,689,401	4,917,462
Health insurance increase		1,323,532	729,623	2,053,155		1,293,770	713,216	2,006,986		1,293,770	713,216	2,006,986
Adds funding for the big data initiative	1.00	469,000		469,000	1.00	469,000		469,000	1.00	300,000		300,000
Adds funding for climate smart agriculture, including \$418,200 for salaries and \$40,000 for operating costs	2.00	458,200		458,200	0.00	0		0	0.00	0		0
Adds funding for bee and apiary research, including 1 FTE bee and apiary scientist	1.00	262,000		262,000	0.00	0		0	0.00	0		0
Adds funding for precision agriculture operating costs		600,000		600,000		0		0		0		0
Reduces funding for bond payments to provide a total of \$178,477		(178,069)		(178,069)		(178,069)		(178,069)		(178,069)		(178,069)
Adds funding for operations, including funding for Oakes Irrigation Research Site operating support		560,000		560,000		400,000		400,000		400,000		400,000
Adds funding for potato fast track	1.00	250,000		250,000	0.00	0		0	0.00	0	250,000	250,000
Removes salary funding for funding pool				0		(3,763,807)	(1,844,395)	(5,608,202)		(3,714,807)	(1,844,395)	(5,559,202)
Total ongoing funding changes	27.91	\$6,540,872	\$2,110,971	\$8,651,843	23.91	\$1,841,727	\$675,358	\$2,517,085	23.91	\$1,721,727	\$925,358	\$2,647,085
One-Time Funding Items												
Adds funding from SIIF for storage sheds			\$1,900,000	\$1,900,000			\$1,900,000	\$1,900,000			\$1,900,000	\$1,900,000
Adds funding from SIIF for deferred maintenance			500,000	500,000			1,000,000	1,000,000			500,000	500,000
Adds funding for Nesson Valley Irrigation Research Site		\$1,200,000		1,200,000		\$1,700,000		1,700,000		\$1,700,000		1,700,000
Adds funding for branch research center capital project inflation		2,008,230	925,000	2,933,230		2,008,230	925,000	2,933,230		2,008,230	925,000	2,933,230
Adds funding from the federal State Fiscal Recovery Fund for the Hettinger Research Center land purchase			1,038,000	1,038,000			1,038,000	1,038,000			1,038,000	1,038,000
Adds funding from SIIF and other funds for the Waldron Hall replacement project			97,000,000	97,000,000			97,000,000	97,000,000			97,000,000	97,000,000
Total one-time funding changes	0.00	\$3,208,230	\$101,363,000	\$104,571,230	0.00	\$3,708,230	\$101,863,000	\$105,571,230	0.00	\$3,708,230	\$101,363,000	\$105,071,230
Total Changes to Base Level Funding	27.91	\$9,749,102	\$103,473,971	\$113,223,073	23.91	\$5,549,957	\$102,538,358	\$108,088,315	23.91	\$5,429,957	\$102,288,358	\$107,718,315
2023-25 Total Funding	362.47	\$64,337,334	\$160,561,927	\$224,899,261	358.47	\$60,138,189	\$159,626,314	\$219,764,503	358.47	\$60,018,189	\$159,376,314	\$219,394,503
<i>Federal funds included in other funds</i>			\$9,358,780				\$8,918,293				\$8,918,293	
<i>Total ongoing changes as a percentage of base level</i>	8.3%	12.0%	3.7%	7.7%	7.1%	3.4%	1.2%	2.3%	7.1%	3.2%	1.6%	2.4%
<i>Total changes as a percentage of base level</i>	8.3%	17.9%	181.3%	101.4%	7.1%	10.2%	179.6%	96.8%	7.1%	9.9%	179.2%	96.5%

Other Sections in NDSU Main Research Center - Budget No. 640

	<u>House Version</u>	<u>Senate Version</u>	<u>Conference Committee Version</u>
Additional income appropriation	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	Section 5 provides that, in addition to the amount appropriated as other funds, any other income from federal acts, private grants, gifts, and donations, or from other sources received by the Main Research Center, is appropriated for the purposes designated in the act, grant, gift, or donation for the 2023-25 biennium.	The conference committee did not change this section.
Strategic investment and improvements fund	Section 6 provides that \$99.4 million for the Main Research Center Waldron Hall replacement, deferred maintenance, and equipment storage sheds is from SIIF.	Section 6 provides that \$89.9 million, including \$87 million for the Main Research Center Waldron Hall replacement, \$1 million for deferred maintenance, and \$1.9 million for equipment storage sheds is from SIIF.	The conference committee reduced the appropriation for deferred maintenance from \$1 million to \$500,000.
Federal State Fiscal Recovery Fund - Purchase of land	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	Section 7 provides that \$1,038,000 for the Main Research Center purchase of land for the Hettinger Research Center is from federal funds derived from the State Fiscal Recovery Fund.	The conference committee did not change this section.
Potato fast track			A new section provides that \$250,000 from other funds in section 1 is for a potato fast track program to accelerate potato variety development efforts.
Transfer authority	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	Section 8 authorizes the transfer of appropriation authority between the Main Research Center, the branch research centers, NDSU Extension Service, and Northern Crops Institute and provides that any transfers be reported to OMB.	The conference committee did not change this section.
FTE position adjustments	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.	Section 9 authorizes the State Board of Higher Education to adjust or increase FTE positions for the Main Research Center and provides that any adjustments be reported to OMB.	The conference committee did not change this section.
Unexpended general fund - Excess income	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	Section 10 authorizes the continuation of any unexpended general fund appropriation and excess income received by the Main Research Center into the 2025-27 biennium.	The conference committee did not change this section.
Exemption	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 11 allows the Main Research Center to continue unexpended other funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, and Langdon Research Center projects appropriated in Section 1 of Chapter 48 of the 2021 Session Laws from the 2021-23 biennium to the 2023-25 biennium.	The conference committee did not change this section.
Exemption	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	Section 12 allows the Main Research Center to continue unexpended federal funds appropriation authority relating to the Carrington Research Center, Central Grasslands Research Center, Dickinson Research Center, and Hettinger Research Center projects appropriated in subsection 6 of Section 1 of Chapter 550 of the 2021 Special Session Session Laws from the 2021-23 biennium to the 2023-25 biennium.	The conference committee did not change this section.
Exemption	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	Section 13 allows the Main Research Center to expend \$500,000 for deferred maintenance and \$1.9 million for storage sheds without procuring plans, drawings, and specifications from an architect or engineer.	The conference committee reduced the appropriation for deferred maintenance from \$1 million to \$500,000.
Emergency	Section 14 declares the \$250,000 for a spud research fast track to be an emergency measure.	Section 14 declares the \$97 million for the Waldron Hall replacement project to be an emergency measure.	The conference committee did not change this section.

23.0249.02004
 Title.
 Fiscal No. 2

Prepared by the Legislative Council staff for
 Representative Monson
 April 20, 2023

PROPOSED AMENDMENTS TO ENGROSSED HOUSE BILL NO. 1020

That the Senate recede from its amendments as printed on pages 1685-1694 of the House Journal and pages 1419-1427 of the Senate Journal and that Engrossed House Bill No. 1020 be amended as follows:

Page 1, line 14, replace "July 1, 2023," with "with the effective date of this Act"

Page 1, remove lines 17 through 23

Page 2, remove lines 1 through 31

Page 3, replace lines 1 through 28 with:

"NORTH DAKOTA STATE UNIVERSITY EXTENSION SERVICE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Extension service	\$56,530,224	\$2,002,613	\$58,532,837
Soil conservation committee	1,211,520	150,000	1,361,520
Total all funds	\$57,741,744	\$2,152,613	\$59,894,357
Less estimated income	<u>28,303,921</u>	<u>682,222</u>	<u>28,986,143</u>
Total general fund	\$29,437,823	\$1,470,391	\$30,908,214
Full-time equivalent positions	241.77	10.93	252.70

Subdivision 2.

NORTHERN CROPS INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Northern crops institute	\$3,909,760	\$5,640,941	\$9,550,701
Total all funds	\$3,909,760	\$5,640,941	\$9,550,701
Less estimated income	1,922,618	5,517,827	7,440,445
Total general fund	\$1,987,142	\$123,114	\$2,110,256
Full-time equivalent positions	13.55	4.60	18.15

Subdivision 3.

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Upper great plains transportation institute	\$23,527,957	\$1,570,236	\$25,098,193
Total all funds	\$23,527,957	\$1,570,236	\$25,098,193
Less estimated income	<u>19,042,350</u>	<u>959,427</u>	<u>20,001,777</u>
Total general fund	\$4,485,607	\$610,809	\$5,096,416
Full-time equivalent positions	43.88	0.00	43.88

Subdivision 4.

MAIN RESEARCH CENTER

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Main research center	\$111,676,188	\$107,718,315	\$219,394,503
Total all funds	\$111,676,188	\$107,718,315	\$219,394,503
Less estimated income	<u>57,087,956</u>	<u>102,288,358</u>	<u>159,376,314</u>
Total general fund	\$54,588,232	\$5,429,957	\$60,018,189
Full-time equivalent positions	334.56	23.91	358.47

Subdivision 5.

BRANCH RESEARCH CENTERS

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Dickinson research center	\$7,078,838	\$153,874	\$7,232,712
Central grasslands research center	3,553,320	42,199	3,595,519
Hettinger research center	5,174,885	123,393	5,298,278
Langdon research center	3,091,310	74,729	3,166,039
North Central research center	5,203,251	74,501	5,277,752
Williston research center	5,362,734	115,922	5,478,656
Carrington research center	<u>9,827,963</u>	<u>239,286</u>	<u>10,067,249</u>
Total all funds	\$39,292,301	\$823,904	\$40,116,205
Less estimated income	<u>20,722,818</u>	<u>228,047</u>	<u>20,950,865</u>
Total general fund	\$18,569,483	\$595,857	\$19,165,340
Full-time equivalent positions	108.21	3.60	111.81

Subdivision 6.

AGRONOMY SEED FARM

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Agronomy seed farm	\$1,579,655	\$50,109	\$1,629,764
Total special funds	\$1,579,655	\$50,109	\$1,629,764
Full-time equivalent positions	3.00	0.00	3.00

Subdivision 7.

SECTION 1 TOTAL

	<u>Base Level</u>	<u>Adjustments or Enhancements</u>	<u>Appropriation</u>
Grand total general fund	\$109,068,287	\$8,230,128	\$117,298,415
Grand total other funds	<u>128,659,318</u>	<u>109,725,990</u>	<u>238,385,308</u>
Grand total all funds	\$237,727,605	\$117,956,118	\$355,683,723"

Page 4, remove line 6

Page 4, replace line 10 with:

"Nesson Valley irrigation research site project	0	1,700,000"
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Page 4, replace lines 21 through 23 with:

"Total all funds	\$12,827,000	\$109,403,830
Total other funds	<u>12,327,000</u>	<u>105,695,600</u>
Total general fund	\$500,000	\$3,708,230"

Page 5, line 24, replace "\$99,400,000" with "\$89,400,000"

Page 6, after line 10, insert:

"SECTION 8. NORTH DAKOTA STATE UNIVERSITY MAIN RESEARCH CENTER - POTATO FAST TRACK. The estimated income line item in subdivision 4 of section 1 of this Act includes \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts at the North Dakota state university main research center."

Page 7, line 17, remove "\$250,000 appropriated from the general fund for a spud"

Page 7, line 18, replace "research fast track" with "\$87,000,000 appropriated from the strategic investment and improvements fund and \$10,000,000 appropriated from other funds for the Waldron hall replacement project"

Re-number accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

House Bill No. 1020 - Summary of Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Transportation Institute						
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	<u>19,042,350</u>	<u>20,100,371</u>	<u>(98,594)</u>	<u>20,001,777</u>	<u>20,001,777</u>	<u>0</u>
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00
Branch Research Centers						
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	<u>20,722,818</u>	<u>21,182,476</u>	<u>(231,611)</u>	<u>20,950,865</u>	<u>20,950,865</u>	<u>0</u>
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00
NDSU Extension Service						
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	<u>28,303,921</u>	<u>30,368,513</u>	<u>(1,382,370)</u>	<u>28,986,143</u>	<u>28,986,143</u>	<u>0</u>
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)
Northern Crops Institute						
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	<u>1,922,618</u>	<u>7,488,946</u>	<u>(48,501)</u>	<u>7,440,445</u>	<u>7,440,445</u>	<u>0</u>
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00
Main Research Center						
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	<u>57,087,956</u>	<u>160,561,927</u>	<u>(1,185,613)</u>	<u>159,376,314</u>	<u>159,626,314</u>	<u>(250,000)</u>
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00
Agronomy Seed Farm						
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	<u>1,579,655</u>	<u>1,628,794</u>	<u>970</u>	<u>1,629,764</u>	<u>1,629,764</u>	<u>0</u>

General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00
Bill total						
Total all funds	\$237,727,605	\$366,831,559	(\$11,147,836)	\$355,683,723	\$356,408,723	(\$725,000)
Less estimated income	128,659,318	241,331,027	(2,945,719)	238,385,308	238,635,308	(250,000)
General fund	\$109,068,287	\$125,500,532	(\$8,202,117)	\$117,298,415	\$117,773,415	(\$475,000)
FTE	744.97	794.01	(6.00)	788.01	790.01	(2.00)

House Bill No. 1020 - Transportation Institute - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Upper Great Plains Trans. Institute	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	
Total all funds	\$23,527,957	\$25,528,332	(\$430,139)	\$25,098,193	\$25,098,193	\$0
Less estimated income	19,042,350	20,100,371	(98,594)	20,001,777	20,001,777	0
General fund	\$4,485,607	\$5,427,961	(\$331,545)	\$5,096,416	\$5,096,416	\$0
FTE	43.88	43.88	0.00	43.88	43.88	0.00

Department 627 - Transportation Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Increases Funding for Freight Transportation and Logistics Surveys ²	Removes Salary Funding for Funding Pool ³	Removes Funding for a Multimodal Carbon Dioxide Transportation Study ⁴	Total Conference Committee Changes
Upper Great Plains Trans. Institute	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Total all funds	\$199,552	\$108,000	(\$339,241)	(\$398,450)	(\$430,139)
Less estimated income	138,352	0	(236,946)	0	(98,594)
General fund	\$61,200	\$108,000	(\$102,295)	(\$398,450)	(\$331,545)
FTE	0.00	0.00	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$62,767	\$141,568	\$204,335
Health insurance adjustment	(1,567)	(3,216)	(4,783)
Total	\$61,200	\$138,352	\$199,552

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding of \$108,000 from the general fund is added to provide a total of \$408,000 for freight transportation and logistics surveys, the same as the Senate. The House provided \$300,000 from the general fund for freight transportation and logistics surveys.

³ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$102,295)	(\$236,946)	(\$339,241)

⁴ One-time funding of \$398,450 from the general fund added by the House for a multimodal carbon dioxide transportation study is removed, the same as the Senate.

House Bill No. 1020 - Branch Research Centers - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Dickinson Research Center	\$7,078,838	\$7,293,538	(\$60,826)	\$7,232,712	\$7,232,712	
Central Grasslands Research Center	3,553,320	3,668,691	(73,172)	3,595,519	3,595,519	
Hettinger Research Center	5,174,885	5,408,774	(110,496)	5,298,278	5,298,278	
Langdon Research Center	3,091,310	3,485,946	(319,907)	3,166,039	3,166,039	
North Central Research Center	5,203,251	5,387,382	(109,630)	5,277,752	5,277,752	
Williston Research Center	5,362,734	5,608,192	(129,536)	5,478,656	5,478,656	
Carrington Research Center	9,827,963	10,291,154	(223,905)	10,067,249	10,067,249	
Total all funds	\$39,292,301	\$41,143,677	(\$1,027,472)	\$40,116,205	\$40,116,205	\$0
Less estimated income	20,722,818	21,182,476	(231,611)	20,950,865	20,950,865	0
General fund	\$18,569,483	\$19,961,201	(\$795,861)	\$19,165,340	\$19,165,340	\$0
FTE	108.21	110.81	1.00	111.81	111.81	0.00

Department 628 - Branch Research Centers - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for Clubroot Fungus Technician ²	Adds Agronomist Position ³	Removes Salary Funding for Funding Pool ⁴	Total Conference Committee Changes
Dickinson Research Center	\$38,976		\$250,000	(\$349,802)	(\$60,826)
Central Grasslands Research Center	28,584			(101,756)	(73,172)
Hettinger Research Center	42,268			(152,764)	(110,496)
Langdon Research Center	27,003	(\$74,000)		(272,910)	(319,907)
North Central Research Center	42,429			(152,059)	(109,630)
Williston Research Center	50,405			(179,941)	(129,536)
Carrington Research Center	85,994			(309,899)	(223,905)
Total all funds	\$315,659	(\$74,000)	\$250,000	(\$1,519,131)	(\$1,027,472)
Less estimated income	88,201	0	0	(319,812)	(231,611)
General fund	\$227,458	(\$74,000)	\$250,000	(\$1,199,319)	(\$795,861)
FTE	0.00	0.00	1.00	0.00	1.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
Salary increase	\$40,633	\$0	\$40,633
Health insurance adjustment	<u>(1,657)</u>	<u>0</u>	<u>(1,657)</u>
Total	\$38,976	\$0	\$38,976
Central Grasslands Research Center			
Salary increase	\$23,078	\$6,452	\$29,530
Health insurance adjustment	<u>(887)</u>	<u>(59)</u>	<u>(946)</u>
Total	\$22,191	\$6,393	\$28,584
Hettinger Research Center			
Salary increase	\$33,875	\$10,217	\$44,092
Health insurance adjustment	<u>(1,082)</u>	<u>(742)</u>	<u>(1,824)</u>
Total	\$32,793	\$9,475	\$42,268
Langdon Research Center			
Salary increase	\$21,005	\$7,063	\$28,068
Health insurance adjustment	<u>(750)</u>	<u>(315)</u>	<u>(1,065)</u>
Total	\$20,255	\$6,748	\$27,003
North Central Research Center			
Salary increase	\$25,125	\$18,960	\$44,085
Health insurance adjustment	<u>(910)</u>	<u>(746)</u>	<u>(1,656)</u>
Total	\$24,215	\$18,214	\$42,429
Williston Research Center			
Salary increase	\$45,843	\$6,100	\$51,943
Health insurance adjustment	<u>(1,302)</u>	<u>(236)</u>	<u>(1,538)</u>
Total	\$44,541	\$5,864	\$50,405
Carrington Research Center			
Salary increase	\$46,412	\$43,132	\$89,544
Health insurance adjustment	<u>(1,925)</u>	<u>(1,625)</u>	<u>(3,550)</u>
Total	\$44,487	\$41,507	\$85,994
Total Branch Research Centers			
Salary increase	\$235,971	\$91,924	\$327,895
Health insurance adjustment	<u>(8,513)</u>	<u>(3,723)</u>	<u>(12,236)</u>
Total	\$227,458	\$88,201	\$315,659

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$74,000 from the general fund to provide a total of \$176,000 for a new FTE technician position to research clubroot fungus at the Langdon Research Center, the same as the Senate. The House provided \$250,000 from the general fund for a new FTE technician position to research clubroot fungus.

³ Funding of \$250,000 from the general fund, including \$40,000 for operating expenses, is added for 1 new FTE agronomist position at the Dickinson Research Center. The Senate added \$292,000 for the agronomist position. The House did not include a new FTE agronomist position.

⁴ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
Dickinson Research Center			
New FTE positions	(\$210,000)	\$0	(\$210,000)
Vacant FTE positions	<u>(139,802)</u>	<u>0</u>	<u>(139,802)</u>
Total	(\$349,802)	\$0	(\$349,802)
Central Grasslands Research Center			
Vacant FTE positions	(\$79,532)	(\$22,224)	(\$101,756)
Hettinger Research Center			
Vacant FTE positions	(\$116,589)	(\$36,175)	(\$152,764)
Langdon Research Center			
New FTE positions	(\$176,000)	\$0	(\$176,000)
Vacant FTE positions	<u>(72,245)</u>	<u>(24,665)</u>	<u>(96,910)</u>
Total	(\$248,245)	(\$24,665)	(\$272,910)
North Central Research Center			
Vacant FTE positions	(\$86,364)	(\$65,695)	(\$152,059)
Williston Research Center			
Vacant FTE positions	(\$158,357)	(\$21,584)	(\$179,941)
Carrington Research Center			
Vacant FTE positions	(\$160,430)	(\$149,469)	(\$309,899)
Total Branch Research Centers			
New FTE positions	(\$386,000)	\$0	(\$386,000)
Vacant FTE positions	<u>(813,319)</u>	<u>(319,812)</u>	<u>(1,133,131)</u>
Total	(\$1,199,319)	(\$319,812)	(\$1,519,131)

House Bill No. 1020 - NDSU Extension Service - Conference Committee Action

	<u>Base Budget</u>	<u>House Version</u>	<u>Conference Committee Changes</u>	<u>Conference Committee Version</u>	<u>Senate Version</u>	<u>Comparison to Senate</u>
Extension Service	\$56,530,224	\$62,624,491	(\$4,091,654)	\$58,532,837	\$58,737,837	(\$205,000)
Soil Conservation Committee	<u>1,211,520</u>	<u>1,361,520</u>		<u>1,361,520</u>	<u>1,511,520</u>	<u>(150,000)</u>
Total all funds	\$57,741,744	\$63,986,011	(\$4,091,654)	\$59,894,357	\$60,249,357	(\$355,000)
Less estimated income	<u>28,303,921</u>	<u>30,368,513</u>	<u>(1,382,370)</u>	<u>28,986,143</u>	<u>28,986,143</u>	<u>0</u>
General fund	\$29,437,823	\$33,617,498	(\$2,709,284)	\$30,908,214	\$31,263,214	(\$355,000)
FTE	241.77	255.70	(3.00)	252.70	254.70	(2.00)

Department 630 - NDSU Extension Service - Detail of Conference Committee Changes

	<u>Adjusts Funding for Salary and Benefit Increases¹</u>	<u>Reduces Funding for the Cropping System Initiative²</u>	<u>Reduces Funding for the Livestock Development Initiative³</u>	<u>Removes New FTE Position for the 4-H Initiative⁴</u>	<u>Increases Funding for Operations⁵</u>	<u>Removes Salary Funding for Funding Pool⁶</u>
Extension Service	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Soil Conservation Committee						
Total all funds	\$767,891	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$3,854,545)
Less estimated income	<u>380,828</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>(1,763,198)</u>
General fund	\$387,063	(\$460,000)	(\$250,000)	(\$240,000)	\$70,000	(\$2,091,347)
FTE	0.00	(1.00)	(1.00)	(1.00)	0.00	0.00

	Reduces Funding for the Farm and Ranch Safety Initiative ⁷	Total Conference Committee Changes
Extension Service Soil Conservation Committee	(\$125,000)	(\$4,091,654)
Total all funds	(\$125,000)	(\$4,091,654)
Less estimated income	0	(1,382,370)
General fund	(\$125,000)	(\$2,709,284)
FTE	0.00	(3.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$392,348	\$408,486	\$800,834
Health insurance adjustment	(5,285)	(27,658)	(32,943)
Total	\$387,063	\$380,828	\$767,891

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding is reduced by \$460,000 from the general fund to provide a total of \$240,000 and 1 new FTE soybean pathologist position for the cropping system initiative. The Senate reduced funding by \$220,000 from the general fund to provide a total of \$480,000 for 2 new FTE positions for the cropping system initiative. The House provided \$700,000 from the general fund for the cropping system initiative.

³ Funding of \$250,000 from the general fund included by the House and Senate for a new FTE veterinary epidemiologist position is removed by the conference committee.

⁴ Funding is reduced by \$240,000 from the general fund to remove 1 new FTE position added by the House for the 4-H initiative, the same as the Senate. The conference committee did not remove \$80,000 from the general fund added by the House for 4-H operating expenses, the same as the Senate.

⁵ Funding of \$70,000 from the general fund is added for NDSU Extension Service operating support to provide a total of \$220,000 for the NDSU Extension Service and \$150,000 for the State Soil Conservation Committee operating support. The Senate provided \$520,000 from the general fund, including \$220,000 for the NDSU Extension Service and \$300,000 for the State Soil Conservation Committee operating support. The House provided \$300,000 from the general fund, including \$150,000 for the NDSU Extension Service, and \$150,000 for the State Soil Conservation Committee operating support.

⁶ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
New FTE positions	(\$410,000)	\$0	(\$410,000)
Vacant FTE positions	(1,681,347)	(1,763,198)	(3,444,545)
Total	(\$2,091,347)	(\$1,763,198)	(\$3,854,545)

⁷ Funding of \$250,000 from the general fund included by the House and Senate for the farm and ranch safety and health initiative is reduced by \$125,000 by the conference committee.

House Bill No. 1020 - Northern Crops Institute - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Northern Crops Institute	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	
Total all funds	\$3,909,760	\$9,645,484	(\$94,783)	\$9,550,701	\$9,550,701	\$0
Less estimated income	1,922,618	7,488,946	(48,501)	7,440,445	7,440,445	0
General fund	\$1,987,142	\$2,156,538	(\$46,282)	\$2,110,256	\$2,110,256	\$0
FTE	13.55	18.15	0.00	18.15	18.15	0.00

Department 638 - Northern Crops Institute - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Funding Pool ²	Total Conference Committee Changes
Northern Crops Institute	\$24,534	(\$119,317)	(\$94,783)
Total all funds	\$24,534	(\$119,317)	(\$94,783)
Less estimated income	12,179	(60,680)	(48,501)
General fund	\$12,355	(\$58,637)	(\$46,282)
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$13,583	\$13,248	\$26,831
Health insurance adjustment	(1,228)	(1,069)	(2,297)
Total	\$12,355	\$12,179	\$24,534

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	General Fund	Other Funds	Total
Vacant FTE positions	(\$58,637)	(\$60,680)	(\$119,317)

House Bill No. 1020 - Main Research Center - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Main Research Center	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Total all funds	\$111,676,188	\$224,899,261	(\$5,504,758)	\$219,394,503	\$219,764,503	(\$370,000)
Less estimated income	57,087,956	160,561,927	(1,185,613)	159,376,314	159,626,314	(250,000)
General fund	\$54,588,232	\$64,337,334	(\$4,319,145)	\$60,018,189	\$60,138,189	(\$120,000)
FTE	334.56	362.47	(4.00)	358.47	358.47	0.00

Department 640 - Main Research Center - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Reduces Funding for the Big Data Initiative ²	Removes Funding for the Climate Smart Agriculture Initiative ³	Removes Funding for Bee and Apiary Research ⁴	Removes Funding for Precision Agriculture ⁵	Adjusts Funding for Operations ⁶
Main Research Center	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Total all funds	\$1,203,644	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
Less estimated income	408,782	0	0	0	0	0
General fund	\$794,862	(\$169,000)	(\$458,200)	(\$262,000)	(\$600,000)	(\$160,000)
FTE	0.00	0.00	(2.00)	(1.00)	0.00	0.00

	Adjusts Funding for a Potato Fast Track ⁷	Removes Salary Funding for Funding Pool ⁸	Increases Funding for Nesson Valley Irrigation Research Site ⁹	Total Conference Committee Changes
Main Research Center		(\$5,559,202)	\$500,000	(\$5,504,758)
Total all funds	\$0	(\$5,559,202)	\$500,000	(\$5,504,758)
Less estimated income	250,000	(1,844,395)	0	(1,185,613)
General fund	(\$250,000)	(\$3,714,807)	\$500,000	(\$4,319,145)
FTE	(1.00)	0.00	0.00	(4.00)

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	General Fund	Other Funds	Total
Salary increase	\$824,624	\$425,189	\$1,249,813
Health insurance adjustment	(29,762)	(16,407)	(46,169)
Total	\$794,862	\$408,782	\$1,203,644

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for the big data initiative is reduced by \$169,000 to provide \$220,000 for 1 new FTE position and \$80,000 for operating costs. Both the House and Senate provided \$469,000 for the big data initiative.

³ Funding of \$458,200 from the general fund and 2 new FTE positions added by the House for the climate smart agriculture initiative are removed, the same as the Senate.

⁴ Funding of \$262,000 from the general fund and 1 new FTE position added by the House for bee and apiary research are removed, the same as the Senate.

⁵ Funding of \$600,000 from the general fund added by the House for precision agriculture operating costs is removed, the same as the Senate.

⁶ Funding of \$180,000 from the general fund for graduate research assistants and \$180,000 from the general fund for other operations support added by the House is removed, the same as the Senate. Funding of \$200,000 from the general fund is added to provide a total increase of \$400,000 for Oakes irrigation site operating support, the same as the Senate. The House provided \$200,000 from the general fund for Oakes irrigation site operating support.

⁷ Funding is adjusted to provide \$250,000 from other funds for a potato fast track. The House added \$250,000 from the general fund and 1 new FTE position for spud research and the Senate removed the funding.

⁸ Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>General Fund</u>	<u>Other Funds</u>	<u>Total</u>
New FTE positions	(\$220,000)	\$0	(\$220,000)
Vacant FTE positions	(3,494,807)	(1,844,395)	(5,339,202)
Total	(\$3,714,807)	(\$1,844,395)	(\$5,559,202)

⁹ One-time funding is increased by \$500,000 from the general fund to provide a total of \$1.7 million for the Nesson Valley Irrigation Research Site project, the same as the Senate. The House provided \$1.2 million from the general fund for the Nesson Valley Irrigation Research Site project.

House Bill No. 1020 - Agronomy Seed Farm - Conference Committee Action

	Base Budget	House Version	Conference Committee Changes	Conference Committee Version	Senate Version	Comparison to Senate
Agronomy Seed Farm	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	
Total all funds	\$1,579,655	\$1,628,794	\$970	\$1,629,764	\$1,629,764	\$0
Less estimated income	1,579,655	1,628,794	970	1,629,764	1,629,764	0
General fund	\$0	\$0	\$0	\$0	\$0	\$0
FTE	3.00	3.00	0.00	3.00	3.00	0.00

Department 649 - Agronomy Seed Farm - Detail of Conference Committee Changes

	Adjusts Funding for Salary and Benefit Increases ¹	Removes Salary Funding for Pool ²	Total Conference Committee Changes
Agronomy Seed Farm	\$9,282	(\$8,312)	\$970
Total all funds	\$9,282	(\$8,312)	\$970
Less estimated income	9,282	(8,312)	970
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Salaries and wages funding is adjusted to provide for 2023-25 biennium salary increases of 6 percent on July 1, 2023, and 4 percent on July 1, 2024, and for adjustments to health insurance premium rates, the same as the Senate, as follows:

	<u>Other Funds</u>
Salary increase	\$9,637
Health insurance adjustment	(355)
Total	\$9,282

The House provided salary adjustments of 4 percent on July 1, 2023, and July 1, 2024.

² Funding for new FTE positions and estimated savings from vacant FTE positions is removed as shown below, the same as the Senate. These amounts are available to the agency if needed by submitting a request to the Office of Management and Budget for a transfer from the new and vacant FTE funding pool.

	<u>Other Funds</u>
Vacant FTE positions	(\$8,312)

House Bill No. 1020 - Other Changes - Conference Committee Action

This amendment also:

- Adjusts funding for the Waldron Hall replacement project to provide \$87 million from SIIF and \$10 million from other funds, the same as the Senate. The House provided \$97 million from SIIF for the project.
- Declares the appropriation of \$97 million for the Waldron Hall replacement project to be an emergency measure, the same as the Senate.

- Does not add \$500,000 from SIIF added by the Senate for deferred maintenance.
- Adds a section to designate \$250,000 from other funds for the potato fast track program to accelerate potato variety development efforts.

Proposed Reductions to HB 1020

Ongoing requested general reductions of \$1,502,165. Previous committee action raised it to \$1,727,165. Following reductions needed to bring the budget in line with the session goals.

Budget #	Reduction	
# 628	42k	from agronomist @ Dickenson. Leaves 250k FTE
#630	150k	from Soil Conservation districts, leaves 150k
	240k	removes weed specialist, retains the soybean FTE
	250k	removes vet epidemiologist, retains Swine specialist
	125k	reduces Farm Safety by half. Retains 125K
#640	500k	reduces deferred maintenance, retains 500k
	169K	reduces big data initiative, 300k remains for FTE 220k for FTE and 80k operating no effect to NDAWN
	225k	removes spud fast track
Total	1,701,000	