

Checkoff supported Research projects	Actual 2022-23	Budget FY 2023-24
End Use Quality	\$753,611	\$728,485
Ag Products Development Center	\$350,000	\$300,000
Crop Quality Survey	\$68,059	\$68,045
Durum Quality Research Support	\$47,000	\$47,000
End-Use Market Development	\$51,792	\$51,840
HRS Quality Research	\$26,100	\$40,000
HRW Quality Research Support	\$18,520	\$18,520
Kernel Structure on Milling Quality	\$37,800	\$39,100
Novel Dough Tests	\$34,800	\$0
Specialty Wheat Quality Research Support	\$45,460	\$45,460
Specialty Wheat Quality Research Technician	\$74,080	\$79,920
Starch Properties/Pasta Cooking Quality	\$0	\$38,600
Wheat Breeding/ Genetics	\$324,209	\$280,600
Durum Breeding	\$105,000	\$100,000
Durum Germplasm Low Cadmium	\$18,100	\$13,100
Genomic Selection to Improve Durum Yield/Quality	\$15,000	\$15,000
Genomic Selection to Accelerate Breeding Populations in Spring Wheat	\$35,000	\$10,000
HRS Wheat Breeding	\$118,500	\$118,500
HRW Breeding	\$24,000	\$24,000
Stem Solidity/Allies for Management of Sawfly	\$8,609	\$0
Agronomic/Disease/Pest Management	\$285,870	\$386,262
Applied Research for Management of Diseases	\$0	\$54,872
*Develop Durum Germplasm w/Improved Yield in Drought	\$3,000	\$3,000
Digital Platform for Wheat Disease Info	\$11,162	\$0
DON Testing of Durum in Western ND	\$8,240	\$8,901
DON Testing of HRS in Western ND	\$7,260	\$11,676
*Durable Rust Resistance in HRS	\$3,521	\$3,521
*Eval Fungicide Programs in Leaf Spot Pathogens	\$4,500	\$5,500
Eval Germplasm to Stem/Leaf Rust Resistance	\$35,099	\$35,099
Eval Stripe Rust Pathogens at High Temps	\$18,000	\$0
Eval Management Tool for Ergot	\$18,090	\$0
Eval Tools for Head Blight/Ergot/Leaf Streak	\$25,190	\$0
FHB Resistance in Wheat	\$30,000	\$30,000
*Field Validation of N Cycling from Crop Residue	\$4,617	\$4,790
Improve Consistency of Durum Seed Yield & Quality	\$10,660	\$11,708
Increased Management Intensity for Yield/Quality	\$0	\$61,900
Method to Detect Bacterial Leaf Streak Pathogen	\$21,480	\$21,480
*Mining Tan Spot/BLS Resistance Genes in Durum	\$7,100	\$0
New Varieties High Input Management	\$19,500	\$21,700
Nitrogen Fixing Biological Additives on HRS Yield/Protein	\$0	\$10,000
*Novel Sources of Resistance Against Disease in Progenitors	\$7,451	\$7,451
Planting date Host Plant Resistance to Wheat Stem Sawfly	\$0	\$29,625
Resistance to Bacterial Leaf Streak	\$40,000	\$40,000
*Synthetic Wheat for Leaf Disease Resistance	\$0	\$7,200

Wheat Midge Survey	\$11,000	\$12,000
*Wheat Varieties for Malting/Brewing	\$0	\$5,839
Marketing/Economics	\$80,200	\$79,760
Market Development Support	\$20,500	\$20,500
Strategy/Analysis for New Technology Collaborations	\$22,500	\$22,500
Upper Great Plains Transportation Institute	\$37,200	\$36,760
Other	\$186,600	\$283,000
Equipment Maintenance	\$0	\$30,000
Northern Crops Institute General Support	\$100,000	\$100,000
General Research Contingency	\$0	\$100,000
Wheat Marketing Center	\$60,000	\$53,000
Varietal ID & Cert Test for Wheat	\$26,600	\$0
Soil Science	\$68,420	\$34,945
In-furrow Fertilizer Comparison for HRS	\$16,695	\$ -
Liming Impacts of HRS & Soils in western ND	\$26,780	\$ -
SHARE Farm-Larimore	\$24,945	\$ 24,945
Sulfur Fertilizer Impacts on HRS Grown in SW ND	\$0	\$ 10,000
Total	\$1,698,910	\$ 1,793,052

*Checkoff match to grants approved by the Wheat Research Committee of the State Board of Agricultural Research and Extension (SBARE).