

2024 Hard Red Spring Wheat Variety Trial at Minot

Variety	Heading	Plant	Test			Yield				
	Date	Height	Lodging	Weight	Protein	2022	2023	2024	2-yr avg	3-yr avg
	DAP*	inches	1-9**	lbs/bu	%	bu/a				
AAC Stoughton VB	49	27	1	61.4	14.0	--	--	51.4	--	--
AAC Westlock	49	27	1	60.1	13.6	--	45.9	38.9	42.4	--
AP Elevate	49	28	1	60.4	14.1	--	--	65.3	--	--
AP Gunsmoke CL2	47	27	1	61.2	13.5	57.7	68.4	50.6	59.5	58.9
AP Murdock	47	29	1	61.1	13.6	58.1	63.8	67.3	65.6	63.1
AP Smith	49	30	1	60.8	14.3	58.6	67.6	51.9	59.8	59.4
Ambush	47	30	1	63.1	14.2	--	--	62.7	--	--
Ascend SD	48	30	1	60.7	14.0	--	70.3	55.7	63.0	--
Ballistic	48	31	1	61.1	13.5	--	--	64.6	--	--
Bolles	49	32	1	61.5	16.4	61.5	70.4	66.9	68.7	66.3
Boost	49	29	1	60.3	14.3	58.9	60.2	54.1	57.2	57.7
Brawn SD	47	31	1	63.7	13.1	--	69.6	66.6	68.1	--
CAG Ceres	47	29	1	62.1	14.8	--	--	62.6	--	--
CAG Justify	49	30	1	60.6	12.9	66.7	63.2	75.1	69.2	68.3
CAG Reckless	48	29	1	62.7	13.9	56.3	70.7	69.2	70.0	65.4
CAG Recoil	49	30	1	59.6	13.3	--	--	51.2	--	--
CP3055	47	33	1	58.3	12.7	--	--	52.8	--	--
CP3099A	47	32	1	57.3	11.0	68.7	62.9	63.0	63.0	64.9
CP3119A	47	33	1	58.9	12.1	74.1	64.2	69.5	66.9	69.3
CP3188	47	20	1	59.4	12.8	59.4	62.0	56.7	59.4	59.4
CP3322	47	30	1	57.7	13.3	--	59.6	35.8	47.7	--
CP3360AX	47	22	1	62.4	12.9	--	--	38.2	--	--
CP3915	47	28	1	62.2	14.5	--	--	39.4	--	--
Commander	47	34	1	61.8	14.2	--	--	61.3	--	--
Driver	48	29	1	62.6	13.7	63.0	57.4	49.9	53.7	56.8
Faller	49	29	1	61.1	13.4	--	--	52.2	--	--
Glenn	47	32	1	64.2	14.7	56.6	61.9	47.4	54.7	55.3
Lanning	47	31	1	59.2	14.3	63.4	62.3	48.0	55.2	57.9
LCS Ascent	46	29	1	62.9	13.3	65.1	68	65.4	66.7	66.2
LCS Boom	46	29	1	62.9	13.9	--	68.5	54.3	61.4	--
LCS Buster	46	31	1	59.7	11.5	66.8	71.8	58.4	65.1	65.7
LCS Cannon	46	29	1	62.7	13.8	59.2	65.7	48.9	57.3	57.9
LCS Dual	47	28	1	62.6	13.9	72.7	60.3	66.7	63.5	66.6
LCS Hammer AX	47	32	1	61.5	13.8	--	61.4	54.1	63.5	--
LCS Trigger	47	29	1	60.4	12.2	66.7	70.6	58.0	64.3	65.1
MN Rothsay	47	29	1	62.6	13.6	70.1	64.4	64.8	64.6	66.4
MN Torgy	49	29	1	63.2	14.5	65.4	63.4	67.8	65.6	65.5
MS Charger	47	32	1	61.8	12.2	59.0	60.1	52.5	56.3	57.2
MS Cobra	47	30	1	62.2	14.0	55.2	61.7	66.5	64.1	61.1
MS Nova	47	30	1	62.4	14.3	--	--	53.6	--	--
MS Rancho	47	31	1	60.7	13.7	52.1	53.5	63.9	58.7	56.5
MT Carlson	47	31	1	60.7	13.8	--	--	44.5	--	--
MT Dutton	47	32	1	60.7	14.1	--	--	59.8	--	--
MT Ubet	48	31	1	60.5	13.9	--	--	57.7	--	--
ND Frohberg	48	29	1	60.6	13.9	58	66	48.3	57.2	57.4
ND Heron	47	29	1	63.1	15.2	--	56.5	52.7	54.6	--

ND Stampede	47	30	1	60.7	14.3	--	--	65.2	--	--
ND Thresher	48	30	1	59.4	14.2	--	59.4	46.4	52.9	--
ND VitPro	47	30	1	62.8	14.8	54.2	58	34.8	46.4	49.0
PFS Buns	47	29	1	58.6	12.1	63.9	67.6	50.9	59.3	60.8
PFS Rolls	49	30	1	62.1	13.7	--	--	66.4	--	--
PG-Predator	49	27	1	59.9	14.5	--	--	64.0	--	--
Rocker	48	31	1	61.7	15.1	--	--	48.2	--	--
SD4905	47	29	1	61.9	14.5	--	--	68.5	--	--
Shelly	49	28	1	62.4	13.3	63.8	64.1	64.7	64.4	64.2
SY 611 CL2	48	31	1	62.1	14.9	56.5	67	48.6	57.8	57.4
SY Ingmar	49	29	1	60.5	15.0	53.5	59.0	51.5	55.3	54.7
SY Longmire	48	32	1	61.7	14.6	53.5	66.3	42.7	54.5	54.2
SY Valda	47	31	1	61.2	14.1	57.4	61.4	52.9	57.2	57.2
TCG Badlands	47	29	1	61.6	13.5	--	--	64.5	--	--
TCG Teddy	48	30	1	60.4	14.2	--	58.8	52.5	55.7	55.7
TCG Wildcat	49	28	1	61.8	14.5	61.3	74.5	61.2	67.9	65.7
TCG Zelda	47	30	1	61.5	14.5	--	--	59.2	59.2	59.2
WB9590	46	27	1	61.3	14.1	59.0	66.9	59.2	63.1	61.7
WB9719	47	29	1	63.1	13.97	--	65.1	49.2	57.2	--
Trial mean	48	30	1	61.3	13.8	60.6	62.5	56.1	--	--
C.V.%	1.2	12.1	--	1.0	3.3	8.7	11.0	6.5	--	--
LSD 5%	1	6	NS	1.0	0.7	8.6	11.0	5.9	--	--
LSD 10%	1	5	NS	0.8	0.6	7.2	9.2	5.0	--	--

*DAP = Days after planting.

**Lodging: 1 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planting date: June 6, 2024

Harvest date: September 11, 2024

Seeding rate: 1.5 million live seeds/acre

Previous crop: soybeans

Tillage system: no-till

Soil type: Williams loam

2024 Hard Red Winter Wheat Variety Trial at Minot

Variety	Heading	Plant	Lodging	Test		Yield				
	Date	Height		Weight	Protein	2022	2023	2024	2-yr avg	3-yr avg
	DOY*	inches	1-9**	lbs/bu	%	bu/a				
AAC Coldfront	171	32	1	60.2	12.0	--	--	64.9	--	--
AAC Overdrive	171	29	1	55.9	12.5	--	--	65.7	--	--
AAC Vortex	173	33	1	60.0	12.2	65.0	51.9	57.0	54.5	58.0
AAC Wildfire	175	36	1	59.7	12.1	65.4	52.5	64.7	58.6	60.9
AC Emerson	173	35	1	60.6	12.5	55.6	42.7	67.7	55.2	55.3
Goldrush	174	33	1	58.1	12.7	--	41.1	58.9	50.0	--
Jerry	172	36	1	58.6	12.4	68.8	52.5	56.5	54.5	59.3
Keldin	175	28	1	58.2	12.5	71.5	31.7	66.5	49.1	56.6
LCS Chrome	172	31	1	58.6	13.1	--	--	61.7	--	--
LCS Steel AX	171	31	1	56.6	11.4	--	--	67.1	--	--
MS Maverick	168	27	1	59.3	12.8	53.2	34.6	68.5	51.6	52.1
ND Noreen	172	35	1	61.8	12.3	59.7	56.6	67.1	61.9	61.1
Northern	171	32	1	57.7	12.2	67.3	52.7	63.5	58.1	61.2
SD Andes	168	31	1	60.3	11.9	77.1	53.8	72.1	63.0	67.7
SD Midland	168	33	1	60.1	11.4	72.0	41.4	66.3	53.9	59.9
SD Pheasant (18B025-8)	171	30	1	58.3	12.4	--	--	65.1	--	--
SY Monument	168	26	1	56.7	11.7	72.0	37.5	59.4	48.5	56.3
WB4309	173	26	1	57.6	13.1	53.4	39.4	87.4	63.4	60.1
WB4422	169	25	1	58.2	13.0	--	--	90.6	--	--
Winner	168	30	1	60.5	11.9	--	--	71.6	--	--
Trial mean	171	31	1	58.8	12.2	63.9	43.6	65.2	--	--
C.V.%	1.6	6.4	0.0	2.6	3.9	5.7	11.2	9.8	--	--
LSD .05	5	3	NS	2.5	0.8	6.0	8.4	10.5	--	--
LSD .10	4	3	NS	2.1	0.7	5.0	7.0	8.8	--	--

*DOY = Day of Year as Julian date.

**Lodging: 1 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planting date: October 12, 2023

Harvest date: August 12, 2024

Seeding rate: 1.3 million live seeds/acre

Previous crop: Soybeans

Tillage system: no-till

Soil type: Williams loam