

2023 WSU Variety Testing Hard Red Winter Wheat Trial, Ritzville

Variety Name	2023						*2 Year	*3 Year	*4 Year
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Cold Inj. [‡] Rating	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<i>Released Varieties</i>									
Whistler	67	60.6	10.2	28	143	1	64		
Canvas	66	60.8	10.2	26	145	2	57		
WB4303	66	57.9	11.2	29	144	2	55	57	63
WB4311	62	60.3	11.3	24	145	2	51	53	
WB4394	61	59.0	11.1	26	145	3	50	52	
Keldin	60	59.8	11.2	29	142	2	52	53	57
Guardian	59	60.3	10.9	29	140	2	55		
LCS Jet	53	58.1	12.4	28	144	2	49	55	65
LCS Blackbird (LWH18-0122)	53	55.3	12.9	34	146	3	49		
Sequoia	51	57.7	11.3	33	143	3			
Scorpio	51	57.2	12.0	27	143	3	48		
LCS Missile (LWH19-0192)	50	57.3	13.1	23	142	3	50		
<i>Experimental Lines</i>									
WA8367	61	61.5	12.0	29	146	2			
LWH20-0490	61	58.7	11.4	24	145	2			
MTV2164	59	60.6	11.5	27	146	2			
OR2190064R	57	58.8	12.2	27	144	2			
LWH19-5663	56	57.8	12.2	25	145	3			
LWH20-4802	50	57.2	13.0	30	147	2			
MT2128	49	57.5	12.7	26	144	1			
MTCS20158	49	60.3	12.6	28	144	2			
WA8396	49	56.6	12.5	29	145	2			
WA8403	47	58.3	12.4	28	145	2			
MTS1908	47	58.9	12.2	31	145	2			
WA8310	47	57.1	13.3	31	148	2	45	49	
C.V. %	8	1.6	5.4	5	0	20	14	13	12
LSD (0.05)	6	1.3	0.9	2	1	1	9	NS	6
Average	56	58.7	11.9	28	144	2	52	53	62
Highest	67	61.5	13.3	34	148	3	64	57	65
Lowest	47	55.3	10.2	23	140	1	45	49	57

Agronomic Information

Planting Date:	8/24/2022
Harvest Date:	7/19/2023
Seeding Rate (seeds/ft ²):	500,000
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 4-ft sample	197
P ₂ O ₅ (lb/ac) 1-ft sample	188
S (lb/ac) 2-ft sample	25
pH (top 6 inches)	4.9

Trial Notes:

1. The nursery was located approximately 3 miles northwest of Ritzville, WA.
2. The nursery was fertilized prior to seeding by the cooperator at a rate of 45N, 7S. No additional fertilizer was applied after fall soil sampling.
3. Yield was up 29% and test weight was down 2.5 lb/bu compared to 2021. No data from 2022.

*2023, 2021, 2019, & 2018 used in multi-year analyses.

[‡]Cold Injury rating on 1-9 scale; 1=no injury, 9=dead

Cooperator: John Schoessler

Herbicides: Osprey Xtra (4.75oz), Huskie (15oz), Miravis Ace (7oz), and Tilt (2oz) were applied on April 22, 2023.