

2023 WSU Variety Testing Hard Red Winter Wheat Trial, Horse Heaven

Variety Name	2023					2 Year	3 Year	5 Year
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<i>Released Varieties</i>								
Keldin	39	61.1	11.5	24	139	50	41	43
Scorpio	37	60.9	12.0	22	141	58	46	45
Whistler	36	61.8	11.5	24	140	49	39	
Sequoia	36	62.2	11.4	28	144	43		
LCS Missile (LWH19-0192)	36	59.9	12.1	22	141	45	37	
LCS Blackbird (LWH18-0122)	34	57.4	12.7	20	138	43	36	
LCS Jet	34	59.0	12.7	18	139	50	40	39
WB4311	33	61.1	12.4	19	138	41	34	34
WB4394	33	61.2	12.3	24	139	44	36	35
WB4303	32	60.6	12.2	20	137	43	35	35
Guardian	31	62.2	12.4	22	138	47	38	
Canvas	29	61.7	12.1	22	137			
<i>Experimental Lines</i>								
OR2190064R	38	60.2	11.8	20	143			
MTV2164	37	62.2	11.6	25	139			
LWH20-4802	37	59.5	12.3	22	142			
MTS1908	36	61.0	12.2	23	143			
LWH20-0490	36	60.8	11.1	22	139			
WA8310	36	60.9	11.9	23	141	42	35	35
WA8403	36	60.9	11.9	25	143			
LWH19-5663	35	59.2	12.3	23	142	47		
WA8367	35	61.8	12.1	20	141	45		
WA8396	33	59.1	11.9	26	145			
MT2128	33	59.1	12.2	23	142			
MTCS20158	33	62.5	12.9	21	141			
C.V. %	5	0.9	2.3	6	1	11	13	14
LSD (0.05)	2	0.7	0.4	2	1	5	4	4
Average	35	60.7	12.1	22	141	47	38	39
Highest	39	62.5	12.9	28	145	58	46	45
Lowest	29	57.4	11.1	18	137	41	34	34

Agronomic Information

Planting Date:	9/21/2022
Harvest Date:	7/27/2023
Seeding Rate (seeds/ft ²):	500,000
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 4-ft sample	124
P ₂ O ₅ (lb/ac) 1-ft sample	83
S (lb/ac) 2-ft sample	12
pH (top 6 inches)	6.7

Trial Notes:

1. The nursery was located approximately 6 miles southwest of Benton City, WA.
2. The nursery was fertilized at seeding at a rate of 13N, 30P, 8K, 8S. An additional 28N, 13P, 3S, 5CI was applied on Nov 2, 2022.
3. Yield was down 39% and test weight was down 2.5 lb/bu compared to 2022.

Cooperator: Chad Smith

Herbicides: Osprey Xtra (4.75oz), Huskie (15oz), Miravis Ace (7oz), and Tilt (2oz) were applied on April 25, 2023.