

2022 WSU Variety Testing Hard Red Winter Wheat Trial, Anatone

Variety Name	2022						2 Year	3 Year	5 Year
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Lodge (%)	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<i>Released Varieties</i>									
LCS Jet	100	60.9	7.5	37	163	0	76	79	85
LCS Rocket	95	59.9	7.4	36	163	0			
Scorpio	93	60.2	7.9	35	163	0	69	69	
Whistler	93	62.6	7.4	39	162	0	66		
WB4303	89	61.2	8.4	35	161	0	64	59	66
Keldin (900,000)	87	62.5	7.9	37	164	0	65	69	71
Keldin (500,000)	87	63.1	7.8	39	164	0			
Battle AX	86	61.5	8.2	35	160	0	61		
Keldin (1,050,000)	85	62.7	7.6	38	164	0			
Canvas	85	62.7	8.4	34	160	0	67		
WB4394	81	63.7	7.9	41	163	0	56	66	
Keldin (750,000)	81	62.6	7.7	38	163	0			
LCS Helix AX	78	62.9	8.4	39	163	0			
WB4311	78	63.9	8.9	35	163	0	59	65	71
WB4510CLP	77	63.9	7.0	39	161	0			
Guardian	71	62.7	8.1	36	163	0	51		
<i>Experimental Lines</i>									
LWH19-5663	99	60.9	8.0	37	163	0			
LWH19-1103	96	62.4	7.5	38	162	0			
LWH19-5691	95	60.3	7.7	37	163	0			
WA8338	94	60.6	8.0	45	167	0	63		
PN13001002-04	94	61.2	7.6	43	167	0			
LWH19-0192	92	60.2	7.5	37	163	0	70		
WA8310	92	61.8	7.6	42	164	0	66	70	
WA8367	88	64.3	8.3	45	169	0			
OR2170199R	88	58.6	8.1	34	166	0	60		
LWH18-0122	85	60.6	8.7	30	162	0	63		
GHR10	82	62.7	8.8	38	157	0			
YSC-1001	70	61.4	8.8	42	169	0	49		
YSC-1002	68	61.6	8.7	38	159	10	52		
WA8318 CL+	65	61.7	7.8	49	172	10	50	51	
C.V. %	7	0.7	4.5	4	1	677	10	11	9
LSD (0.05)	14	1.0	0.7	3	2	10	7	7	5
Average	86	61.8	8.0	38	163	1	61	66	73
Highest	100	64.3	8.9	49	172	10	76	79	85
Lowest	65	58.6	7.0	30	157	0	49	51	66

Agronomic Information

Planting Date:	9/16/2021
Harvest Date:	8/8/2022
Seeding Rate (seeds/ft ²):	21.5
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 2-ft sample	158
P ₂ O ₅ (lb/ac) 1-ft sample	117
S (lb/ac) 2-ft sample	16
pH (top 6 inches)	6.3

Herbicides: Zidua (4oz) was applied on September 17.

Metribuzin (3oz) was applied on November 2.

Osprey Xtra (4.75oz), Huskie (15oz), Miravis Ace (7oz), Tilt (2oz), and Thiosulfate (0.5 gal/ac) were applied on March 24.

Metribuzin (3oz) was applied on April 20.

Nexicor (13oz) was applied on June 9.

Trial Notes:

1. The nursery was located approximately 5.5 miles northeast of Anatone, Wa.
2. The nursery was fertilized at planting at a rate of 15N, 36P, 9K, 9S, 7Cu. An additional 97N was applied on November 5.
3. Overall yield was 124% greater and test weight was 4.2 lb/bu more than 2021.
4. There was significant cheatgrass pressure which likely suppressed yield and/or grain protein.

Cooperator: Brit Ausman