

2021 WSU Variety Testing Hard Winter Wheat Trial, Walla Walla

Variety Name <i>Hard White Italicized</i>	2021					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)
Released Varieties								
Scorpio	96	61.7	12.4	33	137	110	105	116
<i>Millie</i>	87	63.1	12.4	34	137	106	100	
WB4303	87	62.3	11.7	33	132	92	90	103
LCS Rocket	82	60.9	11.3	31	133	107	104	117
LCS Jet	80	61.5	12.4	30	135	103	102	116
Keldin	80	63.1	12.0	33	136	88	88	99
<i>Irv</i>	78	61.7	12.2	33	135	102	97	
Battle AX	78	63.2	11.7	33	131			
WB4311	76	63.3	12.4	32	132	93	85	98
Kairos	75	62.0	12.4	31	131	88		
Canvas	74	63.4	11.7	32	132	97		
Guardian	73	61.7	12.4	32	131	96		
LCS Evina	73	58.7	13.4	36	140	102	103	117
WB4394	73	62.0	12.3	37	133	96	92	
LCS Fusion AX	72	62.2	11.3	34	131			
<i>UI Bronze Jade</i>	70	59.6	11.4	34	136	95	95	
AP18 AX	68	63.2	11.3	34	129			
Experimental Lines								
WA8340	91	60.5	11.7	35	138			
<i>IDO2006</i>	91	61.8	11.9	36	139			
<i>OR2150168H</i>	85	62.0	12.3	31	136	100	99	
WA8339	85	59.9	11.8	33	138			
LWH19-0192	85	61.9	12.0	32	136			
LWH19-0907	85	62.0	12.1	32	136			
OR2160011R	84	60.1	11.8	32	137	108	104	
LWH18-0122	83	60.5	12.2	30	133			
<i>OR2160025H</i>	83	62.3	11.5	33	136			
<i>OR2170052H</i>	80	60.6	11.3	35	136	106		
OR2170199R	79	60.0	12.2	34	137			
OR2180100R	79	56.6	11.0	29	136			
<i>OR2160065H</i>	77	61.3	13.0	35	136		83	
WA8309	77	59.7	12.2	28	136	105	104	
YSC-1001	77	59.7	12.6	37	138			
PN13201002-04	73	63.0	11.5	36	135			
OR2180056R	73	59.7	12.4	32	139			
<i>IDO1906</i>	73	61.7	12.5	32	130			
YSC-1002	66	62.4	12.8	31	127			
C.V. %	8	1.9	2.8	4	1	9	9	8
LSD (0.05)	11	1.9	0.6	2	1	10	8	6
Average	79	61.4	12.0	33	135	100	97	109
Highest	96	63.4	13.4	37	140	110	105	117
Lowest	66	56.6	11.0	28	127	88	83	98

Agronomic Information

Planting Date:	10/15/2020
Harvest Date:	7/14/2021
Seeding Rate (seeds/ft ²):	21.5
Previous Crop:	Garbonzos
Spring soil test:	
N (lb/ac) 4-ft sample	344
P ₂ O ₅ (lb/ac) 1-ft sample	430
S (lb/ac) 2-ft sample	32
pH (top 6 inches)	4.7

Herbicide: Osprey Xtra (4.75oz), Huskie (15oz), Miravis Ace (7oz), and Tilt (2oz) were applied on March 18, 2021.

Trial Notes:

1. The Walla Walla nursery was located 5.5 miles NE of Walla Walla, WA.
2. The nursery was fertilized prior to seeding at a rate of 160N, 10P, 10K, 15S. An additional 146N was applied after soil sampling.
3. Overall yield was 34% lower than 2020 and test weight was 2.1 lb/bu less.

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