

2021 WSU Variety Testing Hard Winter Wheat Trial, Ritzville

Variety Name	2021					2 Year Average (Bu/A)	3 Year Average (Bu/A)	5 Year Average (Bu/A)
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date			
<i>Hard White Italicized</i>								
<b>Released Varieties</b>								
Whistler	50	62.9	10.7	27	139			
Guardian	49	63.6	11.2	27	138			
Scorpio	48	59.2	10.7	26	141			
WB4311	47	63.2	12.0	25	139	52		
AP18 AX	47	61.0	11.2	24	139			
LCS Jet	46	60.9	11.8	24	139	56	70	66
Battle AX	46	62.1	11.0	25	139			
Canvas	45	63.5	10.9	25	138			
Millie	45	63.3	11.2	27	140			
Keldin	45	63.0	11.4	26	139	51	57	54
WB4303	41	60.6	12.2	25	139	51	61	
SY Clearstone CL2	40	60.3	13.3	26	141	50	59	58
WB4394	37	61.3	11.8	29	140	47		
WB4623CLP	37	59.5	13.0	25	139			
LCS Fusion AX	31	58.9	10.9	27	139			
UI Bronze Jade	30	60.7	11.4	27	141			
<b>Experimental Lines</b>								
WA8338	51	60.6	9.8	28	140			
LWH19-0192	50	60.8	10.9	24	140			
LWH19-0907	49	60.3	10.8	23	141			
WA8309	46	59.0	11.5	22	144			
PN13201002-04	44	62.3	11.6	29	139			
LWH18-0122	44	59.8	12.1	22	140			
IDO2006	43	61.2	11.8	28	142			
WA8310	43	61.7	11.1	28	139	50		
OR2170199R	43	60.3	11.2	25	141			
YSC-1002	41	61.7	11.7	23	139			
OR2180056R	39	60.0	12.8	24	147			
OR2160011R	38	59.8	11.8	25	141			
WA8318 CL+	36	60.9	11.2	28	144			
YSC-1001	36	59.3	12.9	29	142			
C.V. %	9	1.8	4.5	4	1	10	12	10
LSD (0.05)	7	2.2	1.0	2	2	5	6	4
Average	43	61.1	11.5	26	140	51	61	59
Highest	51	63.6	13.3	29	147	56	70	66
Lowest	30	58.9	9.8	22	138	47	56	54

**Agronomic Information**

Planting Date:	9/16/2020
Harvest Date:	7/21/2021
Seeding Rate (seeds/ft <sup>2</sup> ):	12.5
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 4-ft sample	186
P <sub>2</sub> O <sub>5</sub> (lb/ac) 1-ft sample	383
S (lb/ac) 2-ft sample	21
pH (top 6 inches)	5.5

**Trial Notes:**

1. The Ritzville nursery was located 4.5 miles NW of Ritzville, WA.
2. The nursery was fertilized prior to seeding at a rate of 60N, 10S. An additional 78N was applied after soil sampling.
3. Overall yield was 27% lower than 2019 (no data from 2020) and 0.9 lb/bu more.

**Cooperator: Ron Jirava**

Herbicide: Zidua (2oz) was applied on October 9, 2020.

Osprey Xtra (4.75oz), Huskie (15oz), Miravis Ace (7oz), and Tilt (2oz) were applied on April 1, 2021.

