WASHINGTON STATE UNIVERSITY EXTENSION

2021 WSU Variety Testing Hard Winter Wheat Trial, Horse Heaven

Variety Name *Hard White Italicized*	2021 Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	2 Year Average (Bu/A)	3 Year Average (Bu/A)	5 Year Average (Bu/A)
Released Varieties								
Keldin	**23**	60.1	12.8	27	138	34	40	41
Battle AX	**23**	60.3	12.4	26	138			
Canvas	**22**	**62.8**	12.5	29	136			
Guardian	**22**	61.1	13.1	26	137			
Scorpio	**21**	58.4	13.2	25	141	31		
SY Clearstone CL2	**21**	60.5	**14.7**	30	140	27	34	36
Millie	**21**	**61.6**	13.8	26	140			
Whistler	20	60.6	12.5	29	138			
AP18 AX	20	60.4	12.1	25	136			
WB4394	20	60.9	13.4	31	138	28		
UI Bronze Jade	20	57.8	13.1	28	140	30		
WB4311	20	60.5	13.7	26	138	26	31	
LCS Jet	20	58.1	13.8	22	139	30	37	36
LCS Fusion AX	20	58.3	12.6	27	138			
WB4303	19	60.5	13.8	25	138	27	30	
WB4623CLP	19	59.9	**14.2**	27	140	29	34	
Experimental Lines								
PN13201002-04	**24**	60.5	13.2	29	138			
WA8310	**22**	60.2	13.3	28	140	28		
LWH18-0122	**21**	57.2	**14.0**	22	139			
OR2160011R	20	56.7	13.3	26	141	33		
LWH19-0192	20	58.0	13.4	25	140			
WA8338	20	57.9	13.9	27	141			
IDO2006	19	58.7	13.9	28	143			
WA8318 CL+	19	58.8	12.9	29	142	32		
OR2180056R	19	57.0	13.8	25	142			
OR2170199R	19	59.4	13.1	26	141			
YSC-1001	18	58.6	**14.1**	30	142			
LWH19-0907	18	58.1	**14.1**	26	140			
YSC-1002	18	60.7	**14.5**	23	136			
WA8309	17	56.7	**14.1**	23	143	30		
C.V. %	9	1.1	2.6	5	1	12	12	11
LSD (0.05)	3	1.3	0.7	3	2	4	3	2
Average	20	59.3	13.4	27	139	30	34	38
Highest	24	62.8	14.7	31	143	34	40	41
Lowest	17	56.7	12.1	22	136	26	30	36

Agronomic Information

Planting Date:	10/1/2020
Harvest Date:	7/23/2021
Seeding Rate (seeds/ft^2):	12.5
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 4-ft sample	173
P_2O_5 (lb/ac) 1-ft sample	75
S (lb/ac) 2-ft sample	24
pH (top 6 inches)	6.6

Herbicide: Herbicides were applied by the cooperator

Trial Notes:

1. The Horse Heaven nursery was located 9 miles W of Prosser, WA.

2. The nursery was fertilized prior to seeding at a rate of 42N, 30P, 11S. No additional fertilizer was applied after spring soil sampling.

3. Overall yield was 47% lower than 2020. Test weight data was not published in 2020.

Cooperator: Chad Smith