

2022 WSU Variety Testing Hard Red Winter Wheat Trial, Bickleton

Variety Name	2022					2 Year	3 Year	4 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								
Keldin (1,050,000)	41	61.6	7.6	32	-			
Keldin (750,000)	41	61.7	8.0	34	-			
Keldin (900,000)	41	61.4	7.4	31	-			
Scorpio	41	58.8	8.5	30	-	29	29	
WB4303	34	59.9	8.3	30	-	25	26	29
WB4510CLP	33	62.9	8.0	32	-			
Keldin (500,000)	32	61.3	7.7	33	-	26	27	33
Whistler	31	61.3	7.7	33	-	26		
LCS Jet	31	57.5	7.7	28	-	24	26	34
Battle AX	31	60.3	7.8	31	-	25		
Guardian	30	61.7	7.9	33	-	26		
LCS Helix AX	30	61.3	9.5	30	-			
WB4394	30	61.2	7.5	33	-	25	25	
WB4311	30	61.0	7.5	29	-	26	26	32
Keldin (350,000)	29	61.7	8.2	33	-			
Sequoia	28	60.3	7.3	37	-			
Experimental Lines								
LWH19-5691	40	58.5	8.8	30	-			
WA8338	39	58.5	7.7	34	-	28		
LWH19-5663	34	58.9	7.7	32	-			
PN13001002-04	33	59.7	8.5	32	-			
LWH19-1103	32	60.0	8.1	30	-			
LWH18-0122	30	58.4	8.3	27	-	26		
YSC-1002	29	60.4	9.0	29	-	24		
WA8310	29	60.2	7.7	33	-	23	25	
WA8367	28	61.2	8.2	32	-			
OR2170199R	28	59.3	8.6	31	-	23		
YSC-1001	26	59.6	8.2	33	-	22		
LWH19-0192	26	58.8	7.5	30	-	23		
GHR10	24	61.9	8.9	31	-			
WA8318 CL+	23	60.1	7.6	34	-	19	21	
C.V. %	13	0.6	5.1	5	-	15	16	13
LSD (0.05)	8	0.8	0.8	3	-	4	4	3
Average	32	60.3	8.0	32	-	25	26	32
Highest	41	62.9	9.5	37	-	29	29	34
Lowest	23	57.5	7.3	27	-	19	21	29

* 4 year average uses data from 2018, 2020, 2021, and 2022.

Agronomic Information

Planting Date:	10/28/2021
Harvest Date:	8/11/2022
Seeding Rate (seeds/ft ²):	12.5
Previous Crop:	Spring Wheat
Spring soil test:	
N (lb/ac) 3-ft sample	47
P ₂ O ₅ (lb/ac) 1-ft sample	217
S (lb/ac) 2-ft sample	19
pH (top 6 inches)	5.2

Herbicides: Zidua (4oz) was applied on November 10.

Trial Notes:

1. The nursery was located approximately 2.5 miles northeast of Bickleton, Wa.
2. The nursery was fertilized at planting at a rate of 17N, 34P, 9K, 9S, 7Cu. An additional 67N was applied on November 22.
3. Overall yield was 77% greater and test weight was 7.1 lb/bu more than 2021.
4. Significant weed pressure likely reduced yield and/or grain protein.

Cooperator: Andy & Ron Juris