

**2022 WSU Variety Testing Hard Red Winter Wheat Trial, Connell**

Variety Name	2022						2 Year*	3 Year*	5 Year*
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Emerg- ence	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<b>Released Varieties</b>									
Scorpio	58	63.7	12.1	27	150	7			
Keldin (1,050,000)	53	65.1	12.2	29	148	5			
Whistler	53	65.3	11.8	29	148	8			
Keldin (900,000)	53	65.0	11.8	28	150	5			
WB4394	52	64.2	12.2	31	147	6	63		
Keldin (750,000)	52	64.1	12.4	29	149	5			
WB4311	51	64.9	13.2	25	147	8	63		
WB4303	50	64.2	12.3	25	146	5	65	66	
LCS Jet	49	62.2	12.5	22	149	5	69	71	70
Battle AX	48	65.0	12.2	25	147	6			
Guardian	48	65.4	12.8	26	148	7			
Keldin (350,000)	47	64.6	12.8	28	151	7			
Keldin (500,000)	47	65.0	12.8	28	150	6	67	67	66
WB4510CLP	46	66.3	12.9	29	148	7			
Sequoia	46	63.6	11.9	35	156	6	65	65	61
LCS Helix AX	40	65.6	12.7	25	145	8			
<b>Experimental</b>									
PN13001002-04	57	62.5	11.6	30	151	8			
WA8310	55	64.7	11.8	30	152	8	56		
WA8338	54	62.1	12.0	30	153	7			
LWH19-5691	52	63.2	11.0	25	152	8			
YSC-1001	52	62.6	12.8	31	151	8			
LWH19-5663	52	62.4	12.0	28	154	8			
LWH19-1103	52	63.5	12.1	26	153	8			
WA8367	51	64.3	12.2	27	154	8			
OR2170199R	50	62.9	12.2	25	152	9			
WA8318 CL+	48	63.6	11.3	32	155	9			
LWH18-0122	47	62.8	12.6	22	150	8			
LWH19-0192	47	63.1	12.3	24	152	8			
YSC-1002	40	63.6	13.7	24	144	7			
GHR10	38	64.0	15.2	28	145	9			
C.V. %	8	1.0	3.1	4	1	16	9	9	9
LSD (0.05)	9	1.3	0.9	2	2	2	6	5	4
Average	50	64.0	12.4	27	150	7	61	61	60
Highest	58	66.3	15.2	35	156	9	69	71	70
Lowest	38	62.2	11.8	22	144	5	54	51	50

\*Multi-year yield averages do not include 2022 data due to very late planting.

**Agronomic Information**

Planting Date:	10/14/2021
Harvest Date:	7/28/2022
Seeding Rate (seeds/ft <sup>2</sup> ):	15
Previous Crop:	Fallow
Spring soil test:	
N (lb/ac) 4-ft sample	214
P <sub>2</sub> O <sub>5</sub> (lb/ac) 1-ft sample	79
S (lb/ac) 2-ft sample	12
pH (top 6 inches)	5.9

**Trial Notes:**

1. The nursery was located approximately 7.5 miles southeast of Connell, WA. Site was replanted with double disk drill due to poor soil moisture and poor emergence from 09/02 planting.
2. The nursery was fertilized prior to seeding at a rate of 65N, 10S by the cooperator. An additional 37N was applied on November 22.
3. Emergence ratings averaged across two ratings taken 2 and 6 weeks after first planting on 09/02 at 8" depth (1=best; 9=worst).
4. Overall yield was 11% less and test weight was 4.4 lb/bu more than 2020. No data from 2021.

**Cooperator: Luke Van Hollebeke**

**Herbicides:** Zidua (4oz) was applied on September 16.

Approach Prima (5oz), Powerflex (2oz), Embed (10oz), Wider Match (10oz), and Urea (2gal) were applied by the cooperator.