

2022 WSU Variety Testing Hard Red Winter Wheat Trial, Mattawa

Variety Name	2022						2 Year	3 Year	5 Year
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Lodging (%)	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
Released Varieties									
LCS Rocket	168	61.2	12.3	37	140	18			
LCS Jet	165	63.1	12.9	38	142	0			
Kairos	155	63.9	13.2	36	138	0			
Canvas	145	65.5	13.6	37	139	13			
WB4303	140	63.6	13.7	39	138	56			
WB4394	134	64.4	12.6	42	143	69			
Keldin (750,000)	131	63.9	13.5	34	143	76			
Battle AX	127	64.2	14.3	40	138	73			
Keldin (1,200,000)	124	63.6	13.5	33	143	87			
Keldin (1,050,000)	123	63.7	13.5	32	143	77			
WB4510CLP	122	64.9	13.2	40	142	57			
Keldin (900,000)	120	63.6	13.6	33	143	86			
Experimental Lines									
LWH18-0122	178	62.6	13.4	39	141	0			
LWH19-5663	167	62.9	13.4	42	146	7			
WA8309	162	59.4	13.0	31	146	0			
LWH19-0192	161	62.2	13.3	40	146	0			
WA8368	151	61.4	13.2	37	146	0			
WA8369	149	63.1	12.9	35	145	0			
LWH19-1103	141	63.9	13.5	34	144	63			
GHR10	126	64.3	14.3	37	138	76			
WA8340	124	59.4	13.3	39	148	40			
YSC-1001	119	62.3	13.8	43	147	47			
LWH19-5691	113	63.0	12.3	31	144	73			
YSC-1002	94	62.1	14.2	31	137	86			
C.V. %	10	0.6	2.5	3	1	34			
LSD (0.05)	30	0.9	0.7	3	2	32			
Average	139	63.0	13.3	37	143	42			
Highest	178	65.5	14.3	43	148	87			
Lowest	94	59.4	12.3	31	137	0			

Agronomic Information

Planting Date:	10/12/2021
Harvest Date:	8/2/2022
Seeding Rate (seeds/ft ²):	23.75
Previous Crop:	Potatoes
Spring soil test:	
N (lb/ac) 4-ft sample	619
P (ppm-bicarb) 2-ft sample	309
S (lb/ac) 2-ft sample	254
pH (top 6 inches)	6.7

Herbicides: Weedar (1.5pt), Clarity (6.5oz), Tilt (4oz), Inplace (4oz) and Rainer-EA were applied by the cooperator on March 28.

Trial Notes:

1. The nursery was located approximately 9 miles southeast of Mattawa, Wa.
2. The nursery was fertilized prior to seeding at a rate of 75N, 50P, 100K, and 40S by the cooperator. An additional 105N was applied via fertigation.
3. Overall yield was 3% lower and test weight was 3.7 lb/bu more than in 2021.

Cooperator: Mike Anderson