

2018 WSU Variety Testing Hard Winter Wheat Trial, Dayton

Variety Name	2018					2 Year	3 Year	5 Year
	Yield (Bu/A)	Test WT (Lbs/Bu)	Protein (%)	Plant HT (In)	Head Date	Average (Bu/A)	Average (Bu/A)	Average (Bu/A)
<i>Released Varieties</i>								
LCS Rocket (NSA10-2196)	107	60.9	9.3	32	141	125	120	
LCS Abraham	105	60.9	9.0	33	139			
LCS Jet	104	61.7	9.5	34	140	120	118	101
WB4303	95	61.3	10.4	33	139	101		
SY Touchstone	93	62.5	10.1	32	143	114	111	
Norwest 553	93	62.3	10.3	32	141	115	116	93
LCS Aymeric	92	59.2	8.5	30	142	120		
Keldin	92	63.2	9.1	36	142	111	115	96
LCS Evina	88	62.0	10.2	40	146	104		83
WB-Arrowhead	88	63.1	10.2	38	141	110	110	93
WB4311	88	62.9	10.8	34	139	101		
Rebelde	84	63.4	10.0	31	140	106		
Metropolis	84	62.8	11.6	32	139	99		
Langin	83	62.0	9.4	31	138			
Mandala	75	63.0	10.1	39	145	87		
Whetstone	68	60.5	9.6	31	139	99	100	83
<i>Experimental Lines</i>								
WA 8268	104	61.9	10.3	35	143	120		
WA 8289	101	61.2	9.0	33	142			
XB4542	97	63.5	9.2	41	140			
OR2130118H	96	64.0	10.4	33	141			
WA 8288	96	61.2	9.9	32	144			
NSA12-2472	95	60.1	8.5	37	138			
WA 8294	95	60.8	10.7	36	142			
LWW14-73915	93	60.8	10.1	34	138	118		
OR2110679	89	61.9	9.9	35	140			
OR2120358H	88	61.6	10.0	32	142			
OR2130021R	87	62.5	10.6	33	145	106		
CO12D2011	84	64.6	10.3	34	138			
YS-401	82	61.9	10.1	40	138			
OR2140074R	77	60.0	9.5	32	143			
C.V. %	7	1.2	7.4	4	1	6	7	7
LSD (0.05)	9	1.0	1.0	2	1	6	5	4
Average	91	61.9	9.9	34	141	109	113	92
Highest	107	64.6	11.6	41	146	125	120	101
Lowest	68	59.2	8.5	30	138	87	100	83

Agronomic Information

Planting Date:	10/11/2017
Harvest Date:	8/1/2018
Seeding Rate (seeds/ft ²):	21
Previous Crop:	Chickpeas
Spring soil test:	
N (lb/ac) 4-ft sample	155
P (ppm-bicarb) 2-ft sample	80
S (lb/ac) 2-ft sample	25
pH (top 6 inches)	5.54

Herbicide:

Herbicides and fungicides applied by grower

Trial Notes:

- The Dayton nursery was located about 10 miles northwest of Dayton, WA.
- The nursery was fertilized at 125N 15P 15S 10Cl. An additional 125N was applied in the spring after soil sampling.
- Overall yield was 27% less than 2017 and grain test weight was 1.9 lb/bu less than last year. Despite additional top-dress nitrogen, protein levels were still low.

Cooperator J Penner