

## 2013 WSU Variety Testing Hard Winter Wheat Trial, Dayton

Variety Name <i>*Hard White Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2013					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
Norwest 553	154	153	140	136	61.2	12.5	36	143	0
Keldin				130	60.1	12.8	40	145	47
LCS-Azimut		126	123	130	57.2	12.0	36	146	0
<i>OR2080236H</i>			129	129	59.2	13.3	37	148	0
<i>WA 8184</i>				128	60.4	12.7	44	145	0
<i>OR2080227H</i>			131	128	59.7	12.0	42	147	0
<i>OR2080229H</i>			125	124	59.0	13.8	42	149	3
Boundary	119	119	121	124	60.4	12.4	43	146	0
Genesis				123	58.5	12.4	36	140	8
WA 8185				122	61.5	13.2	39	149	0
LCS Colonia				121	57.8	12.8	40	151	0
<i>OR2080156H</i>		134	123	120	60.2	13.1	42	147	0
NSA06-4663				119	57.7	11.8	35	140	0
JC1103				118	60.1	13.1	44	149	17
WB-Arrowhead				118	60.3	12.8	44	148	37
WB-Rimrock				116	60.5	12.2	41	145	22
WA 8186				115	60.5	12.3	37	150	0
Eltan (SWW Check)	109	111	105	112	58.9	12.5	41	156	28
DAS 2				111	61.3	13.3	43	144	0
WA 8182				111	59.8	12.9	38	141	0
JC1102				111	61.1	12.8	42	149	0
DAS 1				108	59.2	13.3	43	141	8
AP503CL2				108	61.7	12.4	40	143	13
<i>JC1101</i>				107	61.6	12.4	44	147	0
<i>WA 8183</i>				105	58.9	13.0	42	146	0
Whetstone				105	61.2	12.9	43	142	0
Finley	99	92	87	89	61.1	13.6	48	152	75
Sprinter (WA 8118)		86	80	83	58.8	14.6	45	143	68
Farnum	91	84	78	80	58.3	14.6	45	155	73
Bauermeister	104	97	90	68	59.0	12.4	41	149	52
C.V. %	9	9	10	8	1.4	2.5	4	1	103
LSD (.10)	5	7	8	9	0.9	0.3	2	2	16
Average	114	116	111	113	59.8	12.9	41	147	15
Highest	154	153	140	136	61.7	14.6	48	156	75
Lowest	91	84	78	68	57.2	11.8	35	140	0

### Dayton Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 Dayton hard winter wheat trial averaged 113 bushels/acre, equivalent to the 5-year average for this location. The Dayton nursery was located about six miles northwest of Dayton, WA (J. Penner, cooperator).
2. This nursery was seeded on 1 October, 2012 following spring wheat. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill with openers set on 6-inch spacing. Base fertilizer was 175#N/acre applied at planting. Based on a spring soil test showing 185 lbs./acre available N, 65 lbs./acre of additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions were acceptable and emergence and stand establishment were good.
3. Yields ranged from 68 to 136 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 6 of the 30 entries in this trial. The variety 'Norwest 553' was the highest yielding named entry in the trial and was the highest yielding variety that had five years of data averaged for this location. It is probable that some plants at this site experienced damaging frost. There was low stripe rust potential at this location and fungicides were applied twice resulting in minimal impact from stripe rust in the trial.
4. Test weights averaged 59.8 lbs./bu and ranged from 57.2 to 61.7 lbs./bu. Grain protein averaged 12.9% with a range of 11.8 to 14.6%. Plant height averaged 41 inches and lodging averaged 15%, but ranged from 0 to 75%.