

2013 WSU Variety Testing SW Winter Wheat Trial, Connell

| Variety Name <i>*Club 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 |
| ARS010729-1L | | | | 46 | 60.3 | 13.0 | 25 | 136 |
| Puma (WA 8134) | | 50 | 39 | 41 | 60.2 | 13.0 | 26 | 134 |
| WA 8152 | | | 39 | 41 | 60.8 | 14.0 | 30 | 133 |
| WA 8169 | | | | 41 | 57.1 | 13.8 | 28 | 137 |
| WA 8171 | | | | 40 | 59.0 | 13.0 | 29 | 135 |
| OR2071071 (Rosalyn) | | | 34 | 39 | 56.2 | 12.5 | 25 | 135 |
| WA 8151 | | | 34 | 39 | 59.5 | 13.5 | 26 | 136 |
| ARS010780-3C | | | 39 | 39 | 58.6 | 14.0 | 25 | 139 |
| Masami | 51 | 47 | 38 | 39 | 59.4 | 12.8 | 26 | 138 |
| Otto | 50 | 47 | 35 | 39 | 59.8 | 14.0 | 27 | 139 |
| WA 8143 | | 46 | 36 | 38 | 60.3 | 12.8 | 29 | 137 |
| Bobtail (OR0807P94) | | | 36 | 38 | 56.6 | 12.8 | 26 | 135 |
| 4J071246-1C | | | | 37 | 59.4 | 13.5 | 27 | 139 |
| Tubbs 06 | 47 | 42 | 35 | 36 | 59.5 | 13.5 | 29 | 134 |
| 03-29902A | | | | 36 | 59.1 | 13.6 | 25 | 136 |
| Coda | 50 | 48 | 36 | 36 | 59.6 | 14.8 | 26 | 138 |
| ARS990077-1C | | | 33 | 35 | 60.8 | 13.1 | 26 | 137 |
| WA 8153 | | | 31 | 35 | 60.4 | 13.5 | 28 | 135 |
| OR2080924 | | | | 35 | 55.7 | 13.6 | 23 | 136 |
| ARS-Selbu (ARS970161-3L) | | 48 | 34 | 35 | 59.6 | 14.0 | 28 | 138 |
| ARS97230-6C | | | | 34 | 59.4 | 13.8 | 26 | 139 |
| ARS-Crescent | | 44 | 34 | 34 | 59.0 | 12.9 | 27 | 139 |
| Kaseberg (OR2071628) | | 42 | 27 | 34 | 59.7 | 13.7 | 24 | 135 |
| Eltan | 47 | 40 | 32 | 34 | 60.3 | 13.4 | 27 | 138 |
| Eltan/Tubbs 06 | 49 | 43 | 34 | 34 | 59.0 | 14.0 | 28 | 135 |
| Xerpha | 50 | 45 | 39 | 33 | 58.6 | 14.1 | 26 | 138 |
| ARS010746-2C | | | | 33 | 57.7 | 13.0 | 24 | 140 |
| ARS98X402-1C | | | | 33 | 58.9 | 13.7 | 26 | 138 |
| WA 8170 | | | | 33 | 59.0 | 13.9 | 27 | 137 |
| JC1108 | | | | 33 | 57.9 | 12.5 | 29 | 136 |
| WA 8155 | | | 33 | 33 | 59.9 | 13.5 | 28 | 138 |
| WB-Junction | | | | 33 | 61.5 | 14.4 | 24 | 134 |
| Madsen | 46 | 46 | 33 | 32 | 59.3 | 14.8 | 25 | 136 |
| ARS-Amber | | 42 | 33 | 32 | 58.6 | 13.0 | 26 | 136 |
| Trifecta | | | | 31 | 60.8 | 14.5 | 26 | 134 |
| LWW-04-4009 | | | 34 | 31 | 59.6 | 13.0 | 24 | 139 |
| LWW10-1018 | | | | 30 | 56.2 | 13.7 | 26 | 137 |
| ORCF-103 | 46 | 39 | 32 | 30 | 59.7 | 14.6 | 25 | 137 |
| ARS-Chrystal | | 42 | 27 | 29 | 57.1 | 15.7 | 25 | 139 |
| WB-528 | 44 | 40 | 27 | 28 | 60.4 | 13.9 | 27 | 134 |
| Cara | 46 | 43 | 29 | 28 | 58.0 | 15.3 | 25 | 138 |
| Skiles | 47 | 45 | 27 | 27 | 58.1 | 15.6 | 23 | 136 |
| Stephens | 40 | 38 | 22 | 27 | 60.1 | 15.1 | 25 | 134 |
| 02-10606A | | | | 27 | 58.3 | 14.3 | 26 | 136 |
| 99-06202A | | | | 26 | 59.0 | 14.1 | 27 | 136 |
| Mary | 43 | 40 | 24 | 25 | 58.1 | 15.8 | 24 | 134 |
| Bruehl | 47 | 43 | 29 | 24 | 59.5 | 15.3 | 29 | 139 |

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|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | PLANT HT | HEAD DATE |
| C.V. % | 10 | 11 | 13 | 12 | 0.9 | 6.6 | 7 | 1 |
| LSD (.10) | 2 | 3 | 3 | 4 | 0.5 | 1.0 | 2 | 1 |
| Average | 47 | 44 | 33 | 34 | 59.1 | 13.8 | 26 | 137 |
| Highest | 51 | 52 | 39 | 46 | 61.5 | 15.8 | 30 | 140 |
| Lowest | 40 | 38 | 22 | 24 | 55.7 | 12.5 | 23 | 133 |

Connell Soft White Winter Wheat - Preliminary Data

1. Grain yield in the 2013 Connell soft white winter wheat trial averaged 34 bushels/acre, 13 bushels/acre lower than the 5-year average. The Connell nursery was located about six miles east of Connell, WA (D. Bauermeister, cooperator).
2. This nursery was seeded on 5 September, 2012 following fallow. Seed was placed at a 45#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 63#N/acre pre-plant applied. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 24 to 46 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold. The newly released WSU variety 'Puma' was the highest yielding named entry in the trial. 'Masami' was the top yielding entry across five years of results at this location. It is probable that some plants at this site experienced damaging frost. There was a low amount of stripe rust potential at this location and no fungicide was applied. This is the one site selected out of six in the <12" rainfall zone that did not receive fungicides for stripe rust control in 2013.
4. Test weights averaged 59.1 lbs./bu and ranged from 55.7 to 61.5 lbs./bu. Grain protein averaged 13.8% with a range of 12.5 to 15.8%. Plant height averaged 26 inches and there was no lodging. Late season water stress and the frost injury increased protein levels and lowered test weights. A springtime soil test showed ample N at this site.