# 2011 WSU Variety Testing Hard Spring Wheat Trial, St. John

| Variety Name *Hard White Italized | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2011 YIELD (BU/A) | 2011 TEST WT (LBS/BU) | 2011 PROTEIN (%) | 2011 PLANT HT | 2011 HEAD DATE |
|---|---|---|---|---|---|---|---|---|
| **Lassik** | | 67 | 58 | **68** | 62.4 | 12.4 | 30 | 182 |
| WA 8123 | | | 53 | **68** | 62.5 | 12.0 | 34 | 180 |
| **Scarlet** | 62 | 62 | 54 | **67** | 61.7 | 12.1 | 35 | 182 |
| **WA 8074** | | 56 | 52 | **64** | 62.3 | 11.9 | 33 | 181 |
| **Buck Pronto** | 59 | 59 | 51 | **63** | 61.8 | 13.0 | 34 | 178 |
| Clear White 515 | | | | **63** | 60.8 | 12.9 | 30 | 181 |
| Patwin 515 | | | | **62** | 61.1 | 13.3 | 28 | 181 |
| WA 8133 | | | | **62** | 62.7 | 12.0 | 32 | 183 |
| **UI Winchester** | | 59 | 50 | **60** | 62.2 | 11.8 | 31 | 179 |
| **Kelse** | 57 | 57 | 46 | **59** | 62.3 | 12.2 | 34 | 183 |
| **Bullseye** | | 57 | 46 | 57 | **63.4** | 11.1 | 29 | 185 |
| **Hollis** | 58 | 54 | 45 | 56 | 61.6 | 13.4 | 43 | 183 |
| **Jefferson** | 58 | 57 | 47 | 55 | 61.1 | 11.9 | 32 | 184 |
| BR7030 | | | 49 | 54 | 62.6 | 11.7 | 32 | 181 |
| **WA 8148** | | | | 54 | 61.3 | 13.0 | 31 | 181 |
| Macon | | 52 | 41 | 53 | 61.0 | 10.7 | 33 | 181 |
| **Cerere** | | | | 53 | 60.8 | 10.8 | 30 | 185 |
| **WB-Fuzion** | | | 44 | 52 | 60.8 | 12.2 | 33 | 179 |
| **10Fx Inc.1** | | | | 52 | 62.2 | 11.7 | 30 | 183 |
| **Tara 2002** | 57 | 53 | 43 | 51 | 60.2 | 12.3 | 35 | 180 |
| **Westbred 926** | 54 | 51 | 43 | 50 | 60.5 | 12.2 | 32 | 179 |
| Otis | | 54 | 38 | 48 | 61.8 | 10.1 | 35 | 185 |
| **IDO702** | | | | 46 | 59.0 | 12.1 | 33 | 182 |
| **Hank** | 51 | 46 | 31 | 36 | 58.1 | 12.5 | 29 | 180 |
| **C.V.** | 17 | 15 | 16 | 12 | 1.0 | 5.3 | 6 | 0 |
| **LSD** | 4 | 5 | 6 | 9 | 0.6 | 0.7 | 2 | 0 |
| **Average** | 57 | 56 | 47 | 56 | 61.4 | 12.1 | 32 | 182 |
| **Highest** | 62 | 67 | 58 | 68 | 63.4 | 13.4 | 43 | 185 |
| **Lowest** | 51 | 46 | 31 | 36 | 58.1 | 10.1 | 28 | 178 |

St. John Hard Spring Wheat – Preliminary Data

1. Grain yield in the St. John hard spring wheat trial averaged 56 bushels/acre, nearly equal to the 5-year average. The St. John nursery was located about three mile east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 April, 2011 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 80#N/acre and soil test analysis showed an adequate level of N available. No additional N was applied to meet the hard protein target at projected yield levels. Spring seeding was late but establishment was good.
3. Yields ranged from 36 bu/acre to 68 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 24 entries are in this group. Lassik was the highest yielding named variety for 2011 and Scarlet was highest yielding over 5 years at this location. Wire worm was a factor in this trial as evident by the high rate Gaucho treatment in the soft trial. Wire worm distribution is not uniform and can contribute to variation in the trial. Stripe rust was a factor in this trial but no fungicide was applied. There appears to be 25% or more effect on yield by stripe rust for susceptible entries. The Lattice design was 253% efficient compared to an RCBD for yield.
4. Test weights were good with an average of 61.4 lb/bu and ranged from 58.1 to 63.4 lb/bu. Grain protein averaged 12.1% with a range of 10.1 to 13.4%. The average plant height was 32 inches with no lodging.