

2010 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT WALLA WALLA, WA.

| Variety Name *Club Italized | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2010 | | | | |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | PLANT HT | HEAD DATE |
| ALTURAS | 66 | 79 | 100 | 103 | 57.6 | 13.6 | 42 | 154 |
| WA008106 | | | 102 | 103 | 60.1 | 12.8 | 47 | 154 |
| IDO599 | | | | 100 | 54.7 | 13.9 | 41 | 153 |
| IDO671 | | | | 95 | 58.0 | 13.6 | 42 | 155 |
| WA008124 | | | | 92 | 55.7 | 14.5 | 44 | 160 |
| IDO669 | | | | 92 | 57.7 | 14.3 | 45 | 158 |
| DIVA | | 77 | 92 | 90 | 56.5 | 13.5 | 41 | 158 |
| JD | | 73 | 89 | 86 | 58.3 | 14.3 | 45 | 159 |
| WA008089 | | 78 | 94 | 85 | 56.6 | 13.6 | 43 | 158 |
| EDEN +25% | | | 89 | 83 | 57.6 | 13.6 | 41 | 158 |
| JD +25% | | | 90 | 82 | 58.3 | 14.1 | 44 | 158 |
| EDEN | 61 | 73 | 88 | 79 | 58.1 | 13.4 | 41 | 158 |
| BABE | | 75 | 91 | 79 | 56.2 | 14.4 | 41 | 157 |
| CATALDO | 60 | 69 | 84 | 78 | 54.7 | 14.0 | 42 | 153 |
| WA008110 | | | | 75 | 55.0 | 15.0 | 40 | 161 |
| LOUISE | 65 | 72 | 85 | 74 | 54.2 | 13.9 | 43 | 159 |
| WHIT | 59 | 71 | 84 | 74 | 54.7 | 14.3 | 41 | 154 |
| WA008105 | | | | 74 | 56.5 | 13.7 | 39 | 156 |
| WA008107 | | | | 71 | 55.9 | 15.5 | 41 | 156 |
| NICK | 61 | 71 | 83 | 70 | 54.8 | 14.3 | 43 | 153 |
| ALPOWA | 61 | 69 | 83 | 67 | 54.7 | 14.4 | 39 | 159 |
| WAKANZ | 62 | 71 | 82 | 66 | 51.2 | 15.0 | 39 | 159 |
| WA008113 | | | | 66 | 54.8 | 14.3 | 42 | 159 |
| ZAK | 61 | 66 | 73 | 51 | 54.0 | 15.2 | 40 | 160 |
| C.V. % | 8 | 9 | 9 | 11 | 2.2 | 2.9 | 2 | 1 |
| LSD '@ .10' | 3 | 5 | 7 | 13 | 1.7 | 0.6 | 1 | 1 |
| Average | 62 | 73 | 88 | 81 | 56.1 | 14.1 | 42 | 157 |
| Highest | 66 | 79 | 102 | 103 | 60.1 | 15.5 | 47 | 161 |
| Lowest | 59 | 66 | 73 | 51 | 51.2 | 12.8 | 39 | 153 |

Walla Walla Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Walla Walla soft white spring wheat trial averaged 81 bushels/acre and that was 19 bushels/acre higher than the 5-year average for this site. The Walla Walla nursery was located just east of Waitsburg, WA (Glen Smith, cooperator).
2. This nursery was seeded on 5 March, 2010 following spring wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 142#N/acre and an early spring soil test showed an additional 619#N/acre in the top 4 foot profile. Spring seeding and growing conditions were good, but stripe rust was severe.
3. Yields ranged from 51 bu/ac to 103 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 24 entries are in this group. Alturas was the highest yielding named variety in the trail. The lattice RCBD experimental design did little to improve variation allocation during statistical analysis for yield. Stripe rust was a strong factor in this trial with high infection levels for susceptible varieties before heading and all varieties showed infection.
4. Test weights averaged 56.1 lb/bu and ranged from 51.2 to 60.1 lb/bu. Grain protein averaged 14.1% with a range of 12.8 to 15.5%. The average plant height was 42 inches. High fertility and stripe rust contributed to low test weights, high protein and tall plants.