

2010 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT DUSTY, WA.

| Variety Name <i>*Club Italicized</i> | 5 YEAR AVERAGE (BU/A) | 3 YEAR AVERAGE (BU/A) | 2 YEAR AVERAGE (BU/A) | 2010 | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| <i>CARA</i> | -- | -- | 134 | 173 | 59.7 | 11.9 | 35 | 43 | 153 |
| OR2040726 | -- | -- | 117 | 159 | 60.4 | 11.8 | 38 | 41 | 148 |
| KCF9002 | -- | -- | | 159 | 60.4 | 12.3 | 67 | 44 | 152 |
| <i>CHUKAR +25%</i> | -- | -- | | 157 | 59.4 | 11.4 | 73 | 44 | 154 |
| GOETZE/SKILES | -- | -- | | 155 | 59.2 | 12.4 | 40 | 43 | 152 |
| AP 700 CL | -- | -- | 110 | 150 | 58.4 | 12.1 | 23 | 44 | 150 |
| SKILES | -- | -- | 123 | 150 | 59.2 | 12.7 | 62 | 42 | 153 |
| MADSEN | -- | -- | 114 | 149 | 59.1 | 11.8 | 13 | 43 | 153 |
| LEGION | -- | -- | 116 | 149 | 57.1 | 11.9 | 70 | 43 | 152 |
| ORCF-102 | -- | -- | 121 | 148 | 59.9 | 12.1 | 63 | 47 | 153 |
| BRUNDAGE 96 | -- | -- | 110 | 147 | 59.0 | 11.5 | 48 | 44 | 152 |
| BITTERROOT | -- | -- | 106 | 147 | 59.4 | 11.4 | 65 | 45 | 153 |
| <i>CARA +25%</i> | -- | -- | | 147 | 59.3 | 12.2 | 83 | 42 | 153 |
| BRUNEAU | -- | -- | 115 | 145 | 59.0 | 11.7 | 80 | 41 | 152 |
| SIMON | -- | -- | 102 | 144 | 59.2 | 11.8 | 35 | 44 | 152 |
| MADSEN/ROD | -- | -- | 114 | 143 | 58.4 | 11.7 | 33 | 43 | 154 |
| ARS960277L | -- | -- | 110 | 143 | 58.7 | 10.9 | 83 | 42 | 154 |
| <i>ARS970163-4C</i> | -- | -- | | 142 | 58.4 | 12.1 | 96 | 43 | 153 |
| <i>BRUEHL +25%</i> | -- | -- | | 141 | 55.5 | 11.4 | 91 | 40 | 155 |
| STEPHENS | -- | -- | 106 | 140 | 57.6 | 12.3 | 92 | 40 | 152 |
| <i>ARS970075-3C</i> | -- | -- | 112 | 138 | 60.2 | 12.0 | 90 | 44 | 153 |
| <i>ARS970071-3C</i> | -- | -- | 116 | 138 | 59.7 | 12.5 | 81 | 47 | 153 |
| OR2060395 | -- | -- | | 138 | 57.7 | 11.4 | 30 | 41 | 151 |
| <i>CHUKAR</i> | -- | -- | 117 | 137 | 59.0 | 11.5 | 67 | 44 | 154 |
| REA STEPHENS | -- | -- | | 137 | 60.4 | 12.5 | 82 | 48 | 151 |
| WB-528 | -- | -- | 100 | 136 | 60.1 | 12.2 | 52 | 43 | 148 |
| TUBBS 06 | -- | -- | 108 | 134 | 57.5 | 11.3 | 40 | 46 | 152 |
| BZ6W02-616 | -- | -- | 100 | 134 | 61.1 | 11.8 | 50 | 43 | 146 |
| UICF-BRUNDAGE | -- | -- | 111 | 133 | 58.7 | 11.6 | 13 | 42 | 152 |
| WA008115 | -- | -- | | 133 | 58.1 | 11.4 | 76 | 40 | 148 |
| WA008114 | -- | -- | | 131 | 58.8 | 11.1 | 52 | 41 | 148 |
| WA008116 | -- | -- | | 129 | 58.2 | 12.2 | 68 | 38 | 155 |
| ARS970170-2L | -- | -- | 111 | 126 | 56.6 | 12.3 | 88 | 43 | 155 |
| <i>CODA</i> | -- | -- | 101 | 125 | 61.4 | 12.4 | 80 | 45 | 155 |
| MASAMI | -- | -- | 104 | 125 | 56.5 | 12.0 | 90 | 42 | 156 |
| SALUTE | -- | -- | 109 | 125 | 57.1 | 12.1 | 88 | 45 | 151 |
| ROD/TUBBS06 | -- | -- | 103 | 123 | 57.0 | 11.5 | 80 | 45 | 152 |
| FINCH | -- | -- | 105 | 122 | 57.8 | 12.5 | 83 | 44 | 156 |
| LAMBERT | -- | -- | 98 | 121 | 57.8 | 11.0 | 32 | 45 | 151 |
| <i>ARS970184-1C</i> | -- | -- | | 120 | 56.6 | 11.9 | 86 | 43 | 154 |
| <i>BRUEHL</i> | -- | -- | 106 | 119 | 54.3 | 12.0 | 93 | 41 | 156 |
| ROD | -- | -- | 105 | 118 | 55.9 | 11.6 | 93 | 39 | 153 |
| WA008093 | -- | -- | 101 | 118 | 56.0 | 12.1 | 73 | 43 | 153 |
| KCF9003 | -- | -- | | 117 | 59.7 | 12.4 | 96 | 49 | 152 |
| WA008063 | -- | -- | 106 | 116 | 56.5 | 12.6 | 72 | 42 | 148 |
| WA008117 | -- | -- | | 116 | 57.3 | 12.6 | 88 | 37 | 155 |
| KCF9001 | -- | -- | | 116 | 58.9 | 12.4 | 99 | 45 | 155 |
| ELTAN/TUBBS06 | -- | -- | 102 | 114 | 57.2 | 11.7 | 88 | 43 | 153 |
| XERPHA | -- | -- | 107 | 110 | 57.3 | 11.3 | 80 | 40 | 153 |
| RJAMES | -- | -- | 101 | 107 | 55.3 | 11.5 | 98 | 36 | 154 |
| WA008094 | -- | -- | 95 | 107 | 58.9 | 11.9 | 85 | 42 | 155 |
| AP LEGACY | -- | -- | 105 | 105 | 56.8 | 11.3 | 90 | 44 | 152 |
| ID00-475-2DH | -- | -- | | 102 | 58.3 | 11.7 | 80 | 41 | 153 |
| GEORGE | -- | -- | 105 | 101 | 56.2 | 12.2 | 96 | 41 | 156 |

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|---|-----------------------------|-----------------------------|-----------------------------|-----------------|---------------------|----------------|----------------|-------------|--------------|
| | | | | YIELD (BU/A) | TEST WT (LBS/BU) | PROTEIN (%) | LODGING (%) | PLANT HT | HEAD DATE |
| ELTAN/MADSEN | -- | -- | 88 | 96 | 56.1 | 12.7 | 96 | 42 | 154 |
| ORCF-103 | -- | -- | 99 | 94 | 56.0 | 12.0 | 95 | 40 | 155 |
| WA008092 | -- | -- | 95 | 93 | 56.6 | 12.5 | 98 | 42 | 157 |
| ELTAN | -- | -- | 91 | 92 | 57.4 | 11.8 | 98 | 40 | 156 |
| DH99-55-2 (Soft Red) | -- | -- | | 85 | 57.0 | 10.7 | 88 | 46 | 151 |
| CDC PTARMIGAN | -- | -- | 75 | 76 | 56.6 | 10.7 | 96 | 47 | 153 |
| C.V. % | -- | -- | 10 | 10 | 1.6 | 4.0 | 34 | 4 | 1 |
| LSD '@ .10' | -- | -- | 10 | 17 | 1.3 | 0.6 | 34 | 2 | 1 |
| Average | -- | -- | 106 | 128 | 58.1 | 11.9 | 72 | 43 | 153 |
| Highest | -- | -- | 134 | 173 | 61.4 | 12.7 | 99 | 49 | 157 |
| Lowest | -- | -- | 75 | 76 | 54.3 | 10.7 | 13 | 36 | 146 |

Dusty Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Dusty soft white winter wheat trial averaged 128 bushels/acre, 44 bushels/acre higher than last year's average. The Dusty nursery was located about four miles northwest of Dusty, WA (Bob Morasch, Cooperator).
2. This nursery was seeded on 14 September, 2009 following summer fallow. Seed was placed at an 85#/acre seeding rate using a hoe opener plot drill set on 9-inch spacing. Base fertilizer was 69#N. Fall seeding and overwinter conditions were good. Lodging developed in the trial during reproductive stages with all entries experiencing some amount of lodging. Stripe rust also developed in the trial, and although it was not as severe as some locations, susceptible cultivars suffered losses.
3. Yields ranged from 76 bu/ac to 173 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. The club variety Cara was the highest yielding entry in the trial and had a low lodging rating and good stripe rust resistance. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 152% for yield. The CV was 9.9% and would have been much higher if the lattice design was not used.
4. Test weights were okay for the top performing cultivars with an average of 58.1 lb/bu and ranged from 54.3 to 61.4 lb/bu. The large test weight range reflects the lodging and stripe rust levels in this trial. Lodging ranged from 13 to 99%.
5. Grain protein averaged 11.9% with a range of 10.7 to 12.7%. Plant height averaged 43 inches.