

Agronomy Research and Information Center  
**AGRONOMY PROGRESS REPORT**  
Agricultural Experiment Station Cooperative Extension



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**2012 REGIONAL BARLEY, COMMON WHEAT, AND DURUM WHEAT  
PERFORMANCE TESTS IN CALIFORNIA<sup>1</sup>**

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University of California Cooperative Extension cereal evaluation tests were conducted in the Sacramento, San Joaquin, and Imperial Valleys; the intermountain valleys of northern California and in the south central coastal region in 2012. Entries in the tests included standard cultivars, new and soon-to be released cultivars, and advanced breeding lines from both public and private breeding programs. Fall-sown spring barley (35 entries) was evaluated at 7 sites and spring-sown spring barley (37 entries) was evaluated at three sites. Fall-sown winter wheat (46 entries) was evaluated at two sites; fall-sown spring wheat (38 entries), at 10 sites (not all entries were evaluated at all sites); and spring-sown spring wheat (35 entries), at three sites. Durum wheat (31 entries) was evaluated at 5 sites (not all entries were evaluated at all sites).

Tests were conducted at University of California Field Stations or in fields of cooperating growers. Tests were sown at seeding rates of 1.2 million seeds per acre for common and durum wheat tests (equivalent to 92 to 145 lbs/acre for common wheat, and from 107 to 174 lbs/acre for durum wheat, depending on the entry) if irrigation was planned. For rainfed environments seed rates were 1.0 million seeds per acre (equivalent to 76 to 129 lbs/acre for wheat and barley).

Randomized complete block designs with four replications were used for all tests except the spring-sown spring barley tests for which three replications were used. Each plot was nine drill rows wide (5 to 6-inch row spacing) and 20 feet long, except at the UC Desert Research and Extension Center (Imperial) where plots were 16 feet long. Grain was harvested with a Wintersteiger Seedmaster Universal 150 plot combine. Foliar diseases were assessed at the soft-to-medium dough stage of growth by estimating the percentages of areas of penultimate leaves (flag-1 leaf) affected. BYD assessments, however, were based on the percentage of plants showing symptoms. Black point was assessed on grain samples of durum wheat after harvest. Yield, test weight, kernel weight, plant height, days to heading and maturity, lodging, shattering, disease reaction, and grain quality were determined as indicated in the tables. Information regarding each site is given in Table 1.

The California small grain crop in 2012 consisted of 737,000 acres of wheat (including 137,000 acres of durum), 120,000 acres of barley, and 230,000 acres of oat (<http://quickstats.nass.usda.gov>). Total 2012 estimated wheat planted in California was similar to that in last year's estimated plantings with a slight increase in the proportion of durum varieties.

<sup>1</sup>These tests were conducted by the UC Davis Department of Plant Sciences. Land for the tests, the grain produced and other facilities were contributed by cooperating growers identified in Table 1. Quality evaluations were provided by the California Wheat Commission (CWC) quality laboratory. The assistance of growers and the CWC quality laboratory is acknowledged with appreciation. The regional testing program is supported in part by funds provided by the California Crop Improvement Association and the California Wheat Commission.

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COMMON WHEAT: Red wheat estimated planted acreage was 494,000 acres and white wheats were planted in 106,000 (67,000 acres of hard white and 39,000 acres of soft whites).

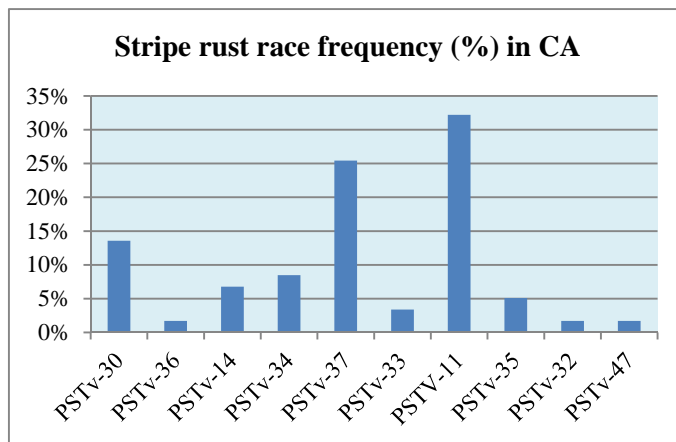
Overall, PR1404, Joaquin, Redwing topped the list of hard red varieties planted throughout the state. Joaquin showed a decrease in its planting relative to the previous year due to its susceptibility to stripe rust. Blanca Grande 515, Patwin and WB Cristallo had the largest acreage of Hard White wheat. Alpowa and Yamhill were the most widely planted varieties among the Soft white wheat.

DESERT DURUM®: Desert Durum® wheat plantings were up from the previous year reaching 96,500 acres in Imperial Valley and 40,000 acres in the San Joaquin Valley region. Orita and Desert King were the predominant varieties planted in Imperial Valley this year, whereas Volante dominated plantings in San Joaquin Valley. [http://smallgrains.ucdavis.edu/CWC\\_Wheat\\_Var\\_Survey\\_2012.pdf](http://smallgrains.ucdavis.edu/CWC_Wheat_Var_Survey_2012.pdf)

In 2012, the growing season was very dry from October through early March, and then above average amounts of rain occurred in March and April. The late rains resulted in near normal yields for much of the rainfed portion of the crop where plant stands survived the initial water stress. Total precipitation in the Central Valley was about 60-70% of average.

Stripe rust occurred throughout the Central Valley, but reached high severity in nurseries on few susceptible varieties. Stripe rust was most severe in nurseries in the Sacramento/San Joaquin Delta, at the UC Davis Agronomy Farm, and, later in the growing season, in the San Joaquin Valley in Fresno and Kings Counties. Among varieties that are grown on significant acreage in California, Joaquin was the most severely affected. Among previously resistant varieties, Redwing and WB Cristallo showed moderately severe to severe levels of stripe rust at a couple of sites in both the Sacramento Valley and the San Joaquin Valley. Also, for the first time, infection (though only of moderate severity) was detected on the variety Blanca Fuerte.

In addition to stripe rust, other foliar diseases on small grain crops were observed this season. Barley yellow dwarf (BYD), a virus transmitted by aphids, was widespread on wheat and barley throughout the Central Valley, and reached moderately severe to severe levels on many of the entries in the UC Regional nurseries. In many cases BYD seemed to affect the crops more than stripe rust. Powdery mildew reached moderate severity on a few varieties in both barley and wheat nurseries in the Central Valley. As a consequence of the initial dry winter, Russian wheat aphid-infested plants were frequently seen early in the growing season. Incidence was low, however, so no measurable yield reduction was likely.



The 2011 stripe rust race analysis was performed by Dr. X. Chen using 62 wheat and barley stripe rust samples collected in California from infected wheat varieties. Ten different wheat stripe rust races were identified and their frequencies are presented in Figure 1. More than 50% of the samples were classified as races PsTv-11 (32%) and PSTv-37 (25%) (Fig 1). Resistance genes *Yr5* and *Yr15* continued to be effective against current wheat stripe rust races but *Yr17* was susceptible to more than 90% of the samples collected in California. Virulence on *Yr10* was not detected in the 2011 California

samples but is frequent in other regions of the USA.

Among the 10 samples of barley stripe rust, 50% of them were classified as PSH-33 and the other five have frequencies of 10%. One single race designated as PSTv-31 was detected in the three Triticale samples submitted for analysis.

## COMMON WHEAT

**Fall-sown spring wheat:** The fall-sown spring wheat and triticale test contained 38 entries (16 wheat cultivars, and 22 advanced lines). Entries in the test, type, background, and seed sources are shown in Table 2. Yield, agronomic performance, and quality data are given in Tables 3-18. This test was grown in 10 sites, 8 irrigated and 2 rainfed. Not all entries were grown in all locations. In Fresno and the SJ Delta sites, some of the plots were accidentally harvested by those in charge of the land before we had a chance to harvest our materials. At our Kings county trial, many entries had poor emergence. The cause of poor emergence is unknown, but has been seen to varying degrees in prior seasons in the area. In the UC Davis trial, high levels of smut and a missed irrigation led to poor yield and quality.

**Yield potential:** In 2012, average grain yields ranged from 3,610 lb/acre at the San Joaquin/Sacramento Delta trial to 7,160 lb/acre in Imperial Valley. Several entries from Syngenta arrived late for inclusion in all the testing locations in the Sacramento Valley, which distorts the average values for the valley. We provide adjusted means (least square means) in Table 18 to try to compensate for differences in yield in the missing locations, but still some caution is required in the interpretation of the 2012 averages across the Sacramento Valley. To avoid this problem the discussion of the Sacramento data is limited to the Davis location that included all the accessions. In this location, WB-Patron, Wincal 09196, Atomo and UC1713 and UC1714 showed the highest yield potential. In the San Joaquin Valley, Lassik, Atomo and WB DA905-10 were the highest yielding lines. In Imperial Valley, APB NM-1, Atomo and Joaquin were the highest yielding varieties. Among the rainfed trials, entries Atomo and WB SJ907-229 showed the highest yield potential.

When the three year period from 2010-2012 is considered, in the Sacramento Valley, Blanca Fuerte, WB DA905-10 and Red were the highest yielding varieties. In the San Joaquin Valley (2010-12), Redwing, WB DA905-10 and Cal Rojo were the highest yielding entries. In the Imperial Valley (2010-12), WB DA905-10 and Blanca Fuerte were the highest yielding varieties (Table 18)

**Disease resistance:** Most stripe infections observed in 2012 were on known susceptible lines (e.g. Anza, Joaquin, and Mika). Several lines however showed an increased infection from years past. These lines include: Atomo, Redwing, WB-Cristallo, WB DA905-10, and WWW CABR3509W (Table 13).

**Quality:** Grain protein content was measured from three sites in the Sacramento Valley, three sites in the San Joaquin Valley, and from one site in Imperial Valley. Average grain protein content ranged from 9.9% to 12.7% for samples from the Sacramento Valley, from 10.7% to 13.8% for samples from the San Joaquin Valley, and from 10.9% to 14.9% for samples from Imperial Valley. Among released varieties, WB-Rockland had the highest average grain protein content overall. Among experimental varieties, WB Joaquin Oro had the highest overall grain protein content (Table 14). Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from Kings (Table 15), Davis (Table 16), and Imperial (Table 17) show that most established bread-wheat varieties and many experimental lines produced high loaf volumes and very good to excellent bread scores (Scores 7-10).

**Fall-sown winter wheat:** Entries for the fall-sown winter wheat test (Oregon Winter Elite Yield Trial) were provided by Mike Flowers (Extension Specialist, Oregon State University). One additional line was added to the test. The test contained 46 entries (18 cultivars and 28 advanced lines). This test was evaluated at two sites, Montague (Siskiyou County) (Table 25), and Tulelake (Modoc County) (Table 26). Entries in the test, type, and seed sources are shown in Table 24.

**Yield potential:** Average grain yields ranged from 6,080 lb/acre in Montague to 6,640 lb/acre in Tulelake. The highest yielding variety in Siskiyou was Mary and the highest yielding variety in Tulelake was YS 215. Overall, Mary was the highest yielding line among the two sites. (Table 27)

**Spring-sown spring wheat:** The spring-sown spring wheat test (Oregon Spring Wheat Elite Yield Trial)

was provided by Mike Flowers (Extension Specialist, Oregon State University). The test contained 35 entries (Table 19), and was evaluated at three sites, Susanville (Lassen County), Tulelake (Modoc County), and Fort Jones (Siskiyou County) (Tables 20-22). Average grain yields ranged from 3,080 lb/acre in Lassen to 7,490 lb/acre in Tulelake. IDO 694 was the highest yield line in Lassen, and IDO 559 was the highest yielding line at both Tulelake and Siskiyou. Overall, IDO 559 was the highest yielding variety among the three sites (Table 23).

## **DURUM WHEAT**

The durum wheat test contained 31 entries (11 cultivars and 20 advanced lines). This Test was planted in 5 locations. Entries in the test, their backgrounds, and seed sources are shown in Table 28. Yield, agronomic performance, and quality data are given in Tables 29-38. In Fresno, some of the plots were accidentally harvested by those in charge of the land before we had a chance to harvest our materials. At our Kings county trial, many entries had poor emergence. The cause of poor emergence is unknown, but has been seen to varying degrees in prior seasons in the area.

***Yield potential:*** Average grain yields ranged from 4,960 lb/acre at the Kern County site to 7,300 lb/acre at Imperial Valley. Topper and Duraking were the two highest yielding varieties in the San Joaquin Valley, and Kiko Nick and Aliror were the two highest yielding varieties at Imperial Valley. Of the varieties that have been tested over the last 3 years (2010-2012), Topper and Desert King have been the highest yielding varieties in the San Joaquin Valley, and Tipai and Orita have been the highest yielding lines in the Imperial Valley (Table 38).

***Quality:*** Grain protein content of samples from four locations in the Central Valley and one location in Imperial Valley was measured and reported in Table 34. Average grain protein content ranged from 10.6% to 12.8% for samples from the Central Valley, and from 12.9% to 16.2% for samples from Imperial Valley. Among released varieties, Saragolla had the highest average grain protein content in the Central Valley and Crown had the highest average grain protein content in Imperial Valley. Among experimental varieties, UC 1691 had the highest overall grain protein content in the Central Valley and 06D2410 had the highest average grain protein content in Imperial Valley (Table 34). The evaluation of the protein data needs to take into account the yield potential of the lines, since lines with low yield tend to have higher grain protein content. Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from Kings and Imperial (Tables 35-36) showed that of the released entries, Helios and Havasu showed the best color scores.

## **BARLEY**

***Fall-sown spring barley:*** The fall-sown spring barley test contained 35 entries (7 cultivars and 28 advanced lines). This test was planted in 7 locations, (2 irrigated and 5 rainfed). Entries in the test, type of barley, their backgrounds, and seed sources are shown in Table 39. Yield and agronomic performance data are given in Tables 40-48. In Fresno, some of the plots were accidentally harvested by those in charge of the land before we had a chance to harvest our materials. In Tulare, low amounts of rain and competition from wild oats reduced stand and yield. In Tehama, planting depth was variable due to hard areas of land. This coupled with weed competition and low precipitation led to poor stand and yield.

***Yield potential:*** Average yields ranged from 1,570 lb/acre at the Tulare site to 6,360 at the Clarksburg site. In 2012, UCD B372 and UCD B398 were the two highest yielding barley lines in the Sacramento Valley irrigated sites, UCD 1286 and UCD B369 were the two highest yielding barley varieties in the San Joaquin Valley irrigated site, and UCD 1280 and UCD B366 were the highest yielding barley varieties among the rainfed trials (Table 48).

**Spring-sown spring barley:** The Intermountain spring barley test included commonly grown cultivars as well as advanced lines from UCD and recently recommended malting lines from the American Malting Barley Association. The Spring Barley test contained 37 entries (13 cultivars and 24 advanced lines). This test was planted in 3 locations. Entries in the test, type of barley, their backgrounds, and seed sources are shown in Table 49. Yield and agronomic performance data are given in Tables 50-53. Also included at Tulelake was the Western Regional Spring Barley Nursery (WRSBN), which was provided by Dr. Charles A. Erickson, Agronomist, National Small Grains Collection USDA-ARS, and contained 36 entries. Entries in the test, type, backgrounds, and seed sources are shown in Table 54. Yield and agronomic performance data are given in Table 55.

**Yield potential:** Average yields ranged from 2,850 lb/acre in Lassen to 7,720 lb/acre in Tulelake. Over all locations in 2012, entries UCD 1339 and UCD 10B yielded the highest. When looking at the average yield over the last three years, entries TLB 148 and UCD 10B were the highest yielding varieties. Among the WRSBN varieties, UT6R2120-14 and Steptoe were the highest yielding varieties.

## List of Tables

|   |         |
|---|---------|
| Table 1. Site Characteristics For UC Regional Cereal Evaluation Tests, 2012 | Page 7  |
| <b>Regional Common Wheat</b>  |         |
| Table 2. 2012 UC Regional Common Wheat Entry List                           | Page 8  |
| Table 3. 2012 Colusa Common Wheat   | Page 9  |
| Table 4. 2012 UC Davis Common Wheat   | Page 10 |
| Table 5. 2012 Sacramento/San Joaquin Delta Common Wheat                     | Page 11 |
| Table 6. 2012 Fresno Common Wheat   | Page 12 |
| Table 7. 2012 Kings Common Wheat  | Page 13 |
| Table 8. 2012 Kern Common Wheat   | Page 14 |
| Table 9. 2012 Imperial Common Wheat   | Page 15 |
| Table 10. 2012 Clarksburg Common Wheat                                      | Page 16 |
| Table 11. 2012 Rainfed Tulare Common Wheat                                  | Page 17 |
| Table 12. 2012 Rainfed UC Davis Common Wheat                                | Page 18 |
| Table 13. 2012 Stripe Rust Summary Common Wheat                             | Page 19 |
| Table 14. 2012 Common Wheat Grain Protein Summary                           | Page 20 |
| Table 15. 2012 Kings Common Wheat Quality                                   | Page 21 |
| Table 16. 2012 Davis Common Wheat Quality                                   | Page 22 |
| Table 17. 2012 Imperial Common Wheat Quality                                | Page 23 |
| Table 18. 2010-12 Common Wheat Yield Summary                                | Page 24 |
| <b>Intermountain Spring Wheat</b>   |         |
| Table 19. 2012 Intermountain Spring Wheat Entry List                        | Page 25 |
| Table 20. 2012 Lassen Intermountain Spring Wheat                            | Page 26 |
| Table 21. 2012 Tulelake Intermountain Spring Wheat                          | Page 27 |
| Table 22. 2012 Siskiyou Intermountain Spring Wheat                          | Page 28 |
| Table 23. 2012 Intermountain Spring Wheat Yield Summary                     | Page 29 |
| <b>Intermountain Winter Wheat</b>   |         |
| Table 24. 2012 Intermountain Winter Wheat Entry List                        | Page 30 |
| Table 25. 2012 Siskiyou Intermountain Winter Wheat                          | Page 31 |
| Table 26. 2012 Tulelake Intermountain Winter Wheat                          | Page 32 |
| Table 27. 2012 Intermountain Winter Wheat Yield Summary                     | Page 33 |
| <b>Regional Durum Wheat</b>   |         |
| Table 28. 2012 UC Regional Durum Wheat Entry List                           | Page 34 |
| Table 29. 2012 UC Davis Durum Wheat   | Page 35 |
| Table 30. 2012 Fresno Durum Wheat   | Page 36 |
| Table 31. 2012 Kings Durum Wheat  | Page 37 |
| Table 32. 2012 Kern Durum Wheat   | Page 38 |
| Table 33. 2012 Imperial Durum Wheat   | Page 39 |
| Table 34. 2012 Durum Wheat Grain Protein Summary                            | Page 40 |
| Table 35. 2012 Kings Durum Wheat Quality                                    | Page 41 |
| Table 36. 2012 Imperial Durum Wheat Quality                                 | Page 42 |
| Table 37. 2012 Durum Wheat Stripe Rust Summary                              | Page 43 |
| Table 38. 2010-12 Durum Wheat Yield Summary                                 | Page 44 |
| <b>Regional Barley (fall-sown)</b>  |         |
| Table 39. 2012 UC Regional Barley Entry List                                | Page 45 |
| Table 40. 2012 Clarksburg Barley  | Page 46 |
| Table 41. 2012 Fresno Barley  | Page 47 |
| Table 42. 2012 UC Davis Barley  | Page 48 |
| Table 43. 2012 Chico Barley   | Page 49 |
| Table 44. 2012 Rainfed Tehama Barley  | Page 50 |
| Table 45. 2012 Rainfed San Luis Obispo Barley                               | Page 51 |
| Table 46. 2012 Rainfed Tulare Barley  | Page 52 |
| Table 47. 2012 Barley Stripe Rust Summary                                   | Page 53 |
| Table 48. 2010-12 Barley Yield Summary                                      | Page 54 |
| <b>Intermountain Barley (spring-sown)</b>                                   |         |
| Table 49. 2012 Intermountain Spring Barley Entry List                       | Page 55 |
| Table 50. 2012 Lassen Intermountain Spring Barley                           | Page 56 |
| Table 51. 2012 Siskiyou Intermountain Spring Barley                         | Page 57 |
| Table 52. 2012 Tulelake Intermountain Spring Barley                         | Page 58 |
| Table 53. 2010-12 Intermountain Spring Barley Yield Summary                 | Page 59 |
| Table 54. 2012 Western Regional Spring Barley Entry List                    | Page 60 |
| Table 55. 2012 Tulelake Western Regional Spring Barley                      | Page 61 |

**Table 1. SITE CHARACTERISTICS FOR UC REGIONAL CEREAL EVALUATION TESTS, 2012**

| LOCATION   | TESTS                                | SOWING DATE | SOIL TYPE   | 2011 CROP                 | FERTILIZATION  | IRRIGATION  | RAIN year (in) |
|--|--------------------------------------|-------------|---|---------------------------|--|---|----------------|
| <b>REGIONAL:</b>   |                                      |             |   |                           |  |   |                |
| Butte Co., Sierra Nevada Brewing Chico                                 | Barley                               | 12/12/11    | Chico loam  | Barley                    | 300 lb/ac True Organics feather meal, 12-3-0   | None  | 5.2            |
| Colusa Co., Erdman Farm, Grimes  | Wheat                                | 11/10/11    | Scribner silt loam                                | Tomatoes                  | 120-125# N (NH3)   | None  | 12.0           |
| Fresno Co., UC Westside REC, Five Points                               | Wheat<br>Durum<br>Barley             | 12/6/11     | Panoche Clay loam                                 | Tomatoes                  | 120# N (Urea) preplant<br>Topdress: 50# N (urea) at tillering; 40# N (urea) at boot stage  | Barley: Flood 3X (18" total)<br>Wheat:Flood 4X (24" total)    | 3.1            |
| Imperial Co., UC Desert REC, El Centro                                 | Wheat<br>Durum                       | 12/19/11    | Imperial-Glenbar silty clay loam                  | Alfalfa                   | Preplant: 100# N<br>310# N (anhydrous ammonia in 4 irrigations)  | Flood 6X (48" total)  | 0.5            |
| Kern Co., J.G. Boswell Co. Kern Lake                                   | Wheat<br>Durum                       | 12/4/11     | Millox Clay and Zalvidea Sandy loam               | Cotton                    | Preplant: 400 lb/acre 5.5-26-31, 180# N (NH3);<br>177# N (NH3) between 4 irrigations   | Flood: 4X (32" total)   | 5.0            |
| Kings Co., Boyets Farms Corcoran                                       | Wheat<br>Durum                       | 12/3/11     | Armona Loam and Gepford Clay                      | Cotton                    | Preplant: 100# 11-52-0 and 100# N (urea)<br>Topdress: 2X 50# N (urea, UN-32) with irrigation;<br>100# N (urea, UN-32) with last irrigation | Flood: 4X (28" total)   | 4.3            |
| San Joaquin Co, Victoria Island Farms Sac-San Joaquin Delta (Stockton) | Wheat                                | 12/9/11     | Egbert muck                                       | Tomatoes                  | 150# 11-52-0 Preplant ; 100# Urea topdress   | Furrow 2X (6" total)  | 6.5            |
| San Luis Obispo Co., White Ranch Shandon                               | Barley                               | 12/5/11     | Pico-San Emigdio-Sorrento loamy sand to fine sand | Fallow                    | None   | None  | 6.0            |
| Tehama Co., Endres Ranch Corning                                       | Barley                               | 12/12/11    | Maywood loam                                      | Fallow                    | None   | None  | 16.5           |
| Tulare Co., Changala Farms Ducor                                       | Wheat<br>Barley                      | 12/4/11     | Centerville clay                                  | Fallow                    | Topdress: 50# N (urea) at tillering; 40# N (urea) at boot stage  | None  | 5.0            |
| Yolo Co., UC Davis Agr. Farm Davis                                     | Wheat<br>Durum<br>Barley<br>RF Wheat | 11/11/11    | Yolo loam   | Corn                      | 60#N (urea) with 1% sulfur preplant<br>Topdress (at tillering): 60#N (wheat), 50# N (barley)<br>Topdress (at jointing): 50#N (wheat)       | Wheat: Flood 2X (20" total)<br>Barley: Flood 1X (10" total)   | 10.9           |
| Yolo Co., Joe Perry Farm Clarksburg                                    | Wheat<br>Barley                      | 11/9/11     | Clay loam class 3                                 | Safflower                 | 120# (aqua) Preplant; 100# N (urea) topdress   | Flood 1X (2" total)   | 6.6            |
| <b>INTERMOUNTAIN:</b>  |                                      |             |   |                           |  |   |                |
| Siskiyou Co., Bryan/Morris Ranch Fort Jones                            | Wheat<br>Barley                      | 4/18/12     | Settlemyer loam                                   | Orchard Grass/<br>Alfalfa | Preplant: 120 pounds of N from urea;<br>Topdress: 36 lbs N from CAN 27 at flowering  | Sprinkler 9X (10" total)                                      | 5.2            |
| Siskiyou Co., Peters Ranch Montague                                    | Winter Wheat                         | 10/22/11    | Clay loam   | Fallow                    | 140 lbs of N at planting   | Flood 2X (14" total)  | 7.7            |
| Lassen Co., Sierra-Cascade Nursery Susanville                          | Wheat<br>Barley                      | 4/19/12     | Sandy loam  | Strawberries              | 400# ammonium sulfate after germination  | Sprinkler 7X (16" total)                                      | 2.8            |
| Siskiyou Co., UC Intermountain REC, Tulelake                           | Winter Wheat                         | 11/1/11     | Tule basin mucky silty clay loam                  | Sudan grass               | 600 #/a 21-0-0   | Sprinkler (17.5" total)                                       | 4.3            |
| Siskiyou Co., UC Intermountain REC, Tulelake                           | Spring Barley<br>Spring Wheat        | 4/17/12     | Tule basin mucky silty clay loam                  | Sudan grass               | 450 #/a 21-0-0<br>600 #/a 21-0-0   | Sprinkler: Barley 17.5" total<br>Sprinkler: Wheat 17.5" total | 2.1            |

2012 UC REGIONAL COMMON WHEAT LIST

| Entry                 | Name              | Type | Parentage  | Source         | Grown At                           |
|-----------------------|-------------------|------|--|----------------|------------------------------------|
| <b>CULTIVARS</b>      |                   |      |  |                |                                    |
| 20                    | ANZA              | HRS  | LR/N10B//3*ANE   | UC             | ALL                                |
| 788                   | EXPRESS           | HRS  | VEE-BH1146   | WB (MONSANTO)  | ALL                                |
| 1340                  | MIKA              | HRS  | HRS MSFRS QUALITY POP  | WWW            | ALL                                |
| 1424                  | JOAQUIN           | HRS  | ELDON/YU994-199  | WB (MONSANTO)  | ALL                                |
| 1478                  | CAL ROJO          | HRS  | CMT1171-4//PFAU'S/VEE#5/3/BONUS                              | RSI (SYNGENTA) | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1521                  | REDWING           | HRS  | CMT Synthetic/1065-3/3/UCSR/PB775// Express                  | RSI (SYNGENTA) | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1522                  | BLANCA ROYALE     | HWS  | CLEO/2INIA//W444/3/DWL5046/2*CELAYA/4/UCSR/PB775/5/STANDER   | RSI (SYNGENTA) | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1523                  | BLANCA FUERTE     | HWS  | SERRA/4/VS73.600/MRL/3/BOW//YR/TRF/5/RSI5/6/PH989-188/1065-3 | RSI (SYNGENTA) | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1548                  | WB-CRISTALLO      | HWS  | STANDER/EXPRESS//PLATA                                       | WB (MONSANTO)  | ALL                                |
| 1650                  | WB-ROCKLAND       | HRS  | BC1 SOLANO YR15, Yr17  | WB (MONSANTO)  | ALL                                |
| 1657                  | BLANCA GRANDE 515 | HWS  | Blanca Grande Yr5, Yr15                                      | RSI (SYNGENTA) | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1667                  | NEW DIRKWIN       | SWS  | Dirkwin Yr5, Yr15, 2NS                                       | BAGLIETTO      | ALL                                |
| 1680                  | PATWIN 515        | HWS  | PATWIN Yr5, Yr15   | UC             | ALL                                |
| 1729                  | WB-PERLA          | HWS  |  | WB (MONSANTO)  | ALL                                |
| 1731                  | WB-PATRON         | HRS  |  | WB (MONSANTO)  | ALL                                |
| <b>ADVANCED LINES</b> |                   |      |  |                |                                    |
| 1624                  | WB DA905-10       | HRS  | 993-191/998-5//SUMMIT/DASH 12                                | WB (MONSANTO)  | ALL                                |
| 1679                  | CLEAR WHITE 515   | HWS  | Clear White 515 HP Yr5, Yr15, 2NS, Gpc                       | UC             | ALL                                |
| 1684                  | WWW CABR3509W     | HWS  | MSFRS HARD WHITE SPRING MSFRS POP                            | WWW            | ALL                                |
| 1686                  | 08SB100           | HRS  |  | LIMAGRAIN      | ALL                                |
| 1688                  | 08SB0658-B        | HWS  |  | LIMAGRAIN      | ALL                                |
| 1710                  | UC 1710           | HWS  | WEAVER//VEE/PJN/3/MILAN                                      | UC             | ALL                                |
| 1711                  | UC 1711           | HRS  | UC1357/KERN Lr37   | UC             | ALL                                |
| 1712                  | UC 1712           | HRS  | UC1037 5+10 Gpc/UC1357                                       | UC             | ALL                                |
| 1713                  | UC 1713           | HRS  | RED RIVER 68//SERRA/UC1161                                   | UC             | ALL                                |
| 1714                  | UC 1714           | HRS  | RED RIVER 68//SERRA/UC1161                                   | UC             | ALL                                |
| 1715                  | UC 1715           | HRS  | EXPRESS*6/Lr37/RED RIVER 68//SERRA                           | UC             | ALL                                |
| 1716                  | WINCAL 09196      | HRW  | PERILA 'S' / TADINIA // PORTOLA 87W /// KERN                 | UC             | ALL                                |
| 1723                  | ATOMO             | HWS  |  | LIMAGRAIN      | ALL                                |
| 1724                  | 08SB0073          | HRS  |  | LIMAGRAIN      | ALL                                |
| 1725                  | ATREVIDO          | HRS  |  | LIMAGRAIN      | ALL                                |
| 1726                  | 08SB0738          | HWS  |  | LIMAGRAIN      | ALL                                |
| 1727                  | 08SB0008-B        | HRS  |  | LIMAGRAIN      | ALL                                |
| 1728                  | WB-JOAQUIN ORO    | HRS  |  | WB (MONSANTO)  | ALL                                |
| 1730                  | WB SJ907-229      | HRS  |  | WB (MONSANTO)  | ALL                                |
| 1732                  | WWW BR2308W       | HWS  | MSFRS HARD WHITE SPRING MSFRS POP                            | WWW            | ALL                                |
| 1734                  | APB W9-3AL        | HRS  |  | APB            | ALL                                |
| 1737                  | APB NM-1          | HRS  |  | APB            | ALL (EXCEPT CLARKSBURG AND COLUSA) |
| 1738                  | APB MC-1          | HRS  |  | APB            | ALL (EXCEPT CLARKSBURG AND COLUSA) |

38 ENTRIES

**TYPE:** HRS = Hard Red Spring; HWS = Hard White Spring; HRW = Hard Red Winter; HWW = Hard White Winter; TRIT = Triticale  
**SOURCE:** ALLSTAR = All-Star Seed Co.; APB = Arizona Plant Breeders; RSI = Resource Seeds, Inc.; UC = University of California;  
 UCR = Giles Waines, University of California, Riverside;  
 WSU = Washington State University (via Baglietto Seeds); WB = Westbred LLC; WWW = World Wide Wheat  
 BAGLIETTO = Baglietto Seeds, Inc.; LIMAGRAIN = Limagrain Seeds



## 2012 Colusa Common Wheat Trial

| Entry                 | Name            | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging<br>Harvest | Shatter | Stripe<br>Rust<br>5/7 | BYDV | Septoria | Powdery<br>Mildew | Protein<br>% |
|-----------------------|-----------------|---------------------|---------------------|------------------|--------------------|---------|-----------------------|------|----------|-------------------|--------------|
| <b>CULTIVARS</b>      |                 |                     |                     |                  |                    |         |                       |      |          |                   |              |
| 20                    | ANZA            | 6190 (14)           | 64.2                | 40               | 1.0                | 2.0     | 3.8                   | 1.8  | 1.0      | 1.0               | 10.37        |
| 788                   | EXPRESS         | 5520 (24)           | 62.5                | 41               | 1.0                | 2.3     | 3.3                   | 2.5  | 1.0      | 1.0               | 11.54        |
| 1340                  | MIKA            | 5920 (18)           | 64.1                | 46               | 2.8                | 1.8     | 4.0                   | 1.3  | 1.0      | 1.8               | 12.14        |
| 1419                  | PATWIN*         | 5450 (26)           | nd                  | 37               | 1.0                | 1.8     | 1.0                   | 1.8  | 1.0      | 1.0               | nd           |
| 1424                  | JOAQUIN         | 5730 (19)           | 61.3                | 35               | 1.0                | 1.3     | 6.0                   | 2.0  | 4.5      | 1.5               | 11.26        |
| 1495                  | LASSIK*         | 6640 (8)            | nd                  | 39               | 1.0                | 1.5     | 1.0                   | 2.3  | 1.0      | 1.0               | nd           |
| 1548                  | WB-CRISTALLO    | 5580 (22)           | 63.3                | 37               | 1.0                | 1.8     | 2.8                   | 1.8  | 1.0      | 1.0               | 11.04        |
| 1650                  | WB-ROCKLAND     | 5540 (23)           | 63.7                | 35               | 1.0                | 1.3     | 1.3                   | 2.8  | 1.0      | 1.3               | 10.48        |
| 1667                  | NEW DIRKWIN     | 5630 (20)           | 60.8                | 44               | 1.0                | 1.5     | 1.0                   | 2.3  | 1.0      | 1.0               | 10.98        |
| 1680                  | PATWIN 515      | 6210 (12)           | 62.8                | 34               | 1.0                | 1.0     | 1.0                   | 2.3  | 1.0      | 1.5               | 11.92        |
| 1729                  | WB-PERLA        | 5610 (21)           | 63.1                | 37               | 1.0                | 1.0     | 1.0                   | 3.0  | 1.0      | 1.0               | 11.76        |
| 1731                  | WB-PATRON       | 6950 (5)            | 63.2                | 41               | 1.0                | 1.3     | 1.0                   | 1.5  | 1.0      | 1.0               | 11.16        |
| <b>ADVANCED LINES</b> |                 |                     |                     |                  |                    |         |                       |      |          |                   |              |
| 1624                  | WB DA905-10     | 6340 (10)           | 61.0                | 38               | 1.0                | 1.3     | 4.3                   | 2.0  | 1.0      | 1.0               | 10.40        |
| 1679                  | CLEAR WHITE 515 | 6000 (17)           | 63.4                | 37               | 1.0                | 1.3     | 1.0                   | 1.8  | 1.0      | 1.0               | 10.94        |
| 1684                  | WWW CABR3509W   | 5430 (27)           | 64.0                | 39               | 1.0                | 2.5     | 2.3                   | 2.3  | 3.0      | 1.0               | 10.25        |
| 1686                  | 08SB100         | 5240 (30)           | 63.9                | 39               | 1.0                | 1.5     | 1.0                   | 2.3  | 1.0      | 1.0               | 11.32        |
| 1688                  | 08SB0658-B      | 5340 (28)           | 63.9                | 36               | 1.0                | 3.3     | 1.3                   | 1.5  | 1.0      | 1.0               | 9.83         |
| 1710                  | UC 1710         | 5050 (33)           | 63.6                | 36               | 1.0                | 2.0     | 1.0                   | 2.0  | 1.0      | 1.0               | 11.62        |
| 1711                  | UC 1711         | 6780 (6)            | 64.6                | 34               | 1.0                | 1.5     | 1.8                   | 2.0  | 1.0      | 1.0               | 11.04        |
| 1712                  | UC 1712         | 6420 (9)            | 62.7                | 32               | 1.0                | 1.0     | 1.5                   | 2.0  | 1.0      | 1.3               | 10.52        |
| 1713                  | UC 1713         | 6210 (13)           | 63.7                | 36               | 1.0                | 1.8     | 1.0                   | 1.3  | 1.0      | 1.0               | 10.63        |
| 1714                  | UC 1714         | 5480 (25)           | 62.3                | 38               | 1.0                | 2.5     | 1.0                   | 1.0  | 1.0      | 1.0               | 12.22        |
| 1715                  | UC 1715         | 7150 (2)            | 61.7                | 38               | 1.0                | 1.0     | 1.0                   | 1.3  | 1.0      | 1.0               | 11.11        |
| 1716                  | WINCAL 09196    | 7090 (3)            | 63.2                | 35               | 1.3                | 1.0     | 1.5                   | 1.8  | 1.0      | 1.0               | 9.89         |
| 1723                  | ATOMO           | 7810 (1)            | 65.1                | 37               | 1.0                | 1.3     | 1.0                   | 2.3  | 1.0      | 1.0               | 9.20         |
| 1724                  | 08SB0073        | 6320 (11)           | 62.7                | 37               | 1.0                | 1.0     | 1.0                   | 2.5  | 1.5      | 1.0               | 11.17        |
| 1725                  | ATREVIDO        | 6120 (15)           | 62.6                | 40               | 1.0                | 2.0     | 1.3                   | 2.5  | 1.0      | 1.0               | 11.04        |
| 1726                  | 08SB0738        | 6100 (16)           | 63.9                | 36               | 1.0                | 1.0     | 1.0                   | 1.5  | 1.0      | 1.0               | 10.82        |
| 1727                  | 08SB0008-B      | 6980 (4)            | 62.1                | 36               | 1.0                | 1.0     | 1.8                   | 1.8  | 1.3      | 1.0               | 11.51        |
| 1728                  | WB-JOAQUIN ORO  | 5230 (32)           | 63.4                | 37               | 1.0                | 1.3     | 1.0                   | 2.8  | 1.3      | 1.8               | 13.38        |
| 1730                  | WB SJ907-229    | 6760 (7)            | 64.4                | 38               | 1.0                | 1.0     | 1.0                   | 2.5  | 1.0      | 1.3               | 11.79        |
| 1732                  | WWW BR2308W     | 5240 (31)           | 63.1                | 39               | 1.3                | 2.5     | 2.5                   | 3.3  | 2.5      | 1.0               | 10.04        |
| 1734                  | APB W9-3AL      | 5310 (29)           | 62.0                | 36               | 1.0                | 2.0     | 1.0                   | 3.3  | 1.0      | 1.0               | 12.02        |
|                       | MEAN            | 6040                | 63.1                | 37               | 1.1                | 1.6     | 1.7                   | 2.1  | 1.2      | 1.1               | 11.08        |
|                       | CV              | 12                  | 1.9                 | 3.6              | 19.3               | 37.6    | 37.5                  | 40.8 | 20.3     | 34.4              |              |
|                       | LSD (.05)       | 1010                | ns                  | 3                | 0.3                | 0.8     | 0.9                   | 1.2  | 0.4      | ns                |              |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%,

3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

\*Values are from an adjacent trial that we conducted under the exact same conditions

Protein is expressed at 12% moisture

## 2012 Davis Common Wheat Trial

| Entry                 | Name             | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Days To               |          | Shatter | Stripe |      | BYDV | Protein<br>% |
|-----------------------|------------------|---------------------|---------------------|------------------|------------------|-----------------------|----------|---------|--------|------|------|--------------|
|                       |                  |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Heading<br>From (3/1) | Maturity |         | Rust   |      |      |              |
|                       |                  |                     |                     |                  |                  |                       |          |         | 5/4    | 5/16 |      |              |
| <u>CULTIVARS</u>      |                  |                     |                     |                  |                  |                       |          |         |        |      |      |              |
| 20                    | ANZA             | 5420 (10)           | 63.6                | 39.7             | 36               | 48                    | 89       | 1.3     | 4.0    | 5.0  | 1.3  | 9.92         |
| 788                   | EXPRESS          | 5120 (20)           | 62.6                | 39.9             | 38               | 46                    | 84       | 1.3     | 1.5    | 1.5  | 2.8  | 10.62        |
| 1340                  | MIKA             | 4350 (36)           | 63.0                | 37.3             | 40               | 49                    | 89       | 1.3     | 5.0    | 5.8  | 1.5  | 11.38        |
| 1419                  | PATWIN*          | 3650 (39)           | 54.7                | -                | 34               | 49                    | 84       | 1.1     | 1.0    | 1.0  | 1.7  | -            |
| 1424                  | JOAQUIN          | 4540 (33)           | 63.6                | 41.5             | 36               | 37                    | 82       | 1.0     | 5.0    | 6.5  | 2.3  | 11.10        |
| 1478                  | CAL ROJO         | 5290 (14)           | 59.3                | 41.2             | 33               | 43                    | 81       | 1.0     | 1.0    | 1.0  | 1.5  | -            |
| 1495                  | LASSIK*          | 4200 (37)           | 60.3                | -                | 37               | 45                    | 83       | 1.4     | 1.0    | 1.0  | 1.4  | -            |
| 1521                  | REDWING          | 5110 (22)           | 59.9                | 39.9             | 32               | 45                    | 84       | 1.3     | 2.8    | 3.3  | 1.8  | -            |
| 1522                  | BLANCA ROYALE    | 4630 (31)           | 60.2                | 39.6             | 33               | 43                    | 84       | 1.3     | 1.0    | 1.0  | 1.3  | -            |
| 1523                  | BLANCA FUERTE    | 4640 (30)           | 61.7                | 46.2             | 33               | 48                    | 85       | 1.3     | 1.0    | 1.0  | 1.8  | -            |
| 1548                  | WB-CRISTALLO     | 5360 (13)           | 60.5                | 40.5             | 35               | 48                    | 85       | 1.0     | 2.5    | 2.5  | 2.0  | 10.10        |
| 1650                  | WB-ROCKLAND      | 4690 (29)           | 59.8                | 41.6             | 35               | 43                    | 81       | 1.3     | 1.0    | 1.0  | 2.5  | 13.00        |
| 1657                  | BLANCA GRANDE 51 | 3470 (40)           | 55.6                | 36.5             | 34               | 43                    | 81       | 1.3     | 1.3    | 1.3  | 2.0  | -            |
| 1667                  | NEW DIRKWIN      | 4720 (28)           | 59.0                | 39.3             | 42               | 56                    | 93       | 1.3     | 1.0    | 1.0  | 1.5  | 9.71         |
| 1680                  | PATWIN 515       | 5440 (9)            | 62.1                | 37.6             | 32               | 49                    | 85       | 1.0     | 1.0    | 1.0  | 1.5  | 10.14        |
| 1729                  | WB-PERLA         | 4490 (34)           | 62.8                | 41.2             | 35               | 35                    | 81       | 1.0     | 1.0    | 1.0  | 3.0  | 12.20        |
| 1731                  | WB-PATRON        | 5920 (1)            | 63.3                | 45.3             | 38               | 47                    | 86       | 1.3     | 1.0    | 1.0  | 3.5  | 9.56         |
| <u>ADVANCED LINES</u> |                  |                     |                     |                  |                  |                       |          |         |        |      |      |              |
| 1624                  | WB DA905-10      | 5400 (12)           | 62.8                | 39.4             | 37               | 44                    | 86       | 1.0     | 3.8    | 5.8  | 2.3  | 9.73         |
| 1679                  | CLEAR WHITE 515  | 4860 (27)           | 61.8                | 38.5             | 38               | 40                    | 79       | 1.3     | 1.0    | 1.0  | 2.3  | 11.93        |
| 1684                  | WWW CABR3509W    | 5000 (24)           | 60.2                | 42.2             | 37               | 45                    | 84       | 1.8     | 3.5    | 5.3  | 2.3  | 9.01         |
| 1686                  | 08SB100          | 5000 (24)           | 63.6                | 41.5             | 37               | 49                    | 88       | 1.0     | 1.0    | 1.0  | 1.5  | 11.48        |
| 1688                  | 08SB0658-B       | 5190 (18)           | 63.5                | 42.1             | 35               | 47                    | 88       | 2.0     | 1.0    | 1.0  | 1.8  | 9.82         |
| 1710                  | UC 1710          | 5130 (19)           | 63.2                | 40.4             | 37               | 50                    | 88       | 1.5     | 1.0    | 1.0  | 1.5  | 10.82        |
| 1711                  | UC 1711          | 5280 (15)           | 63.6                | 45.7             | 31               | 49                    | 85       | 1.0     | 2.3    | 2.8  | 2.8  | 11.01        |
| 1712                  | UC 1712          | 5410 (11)           | 59.9                | 50.3             | 33               | 46                    | 83       | 1.0     | 4.3    | 3.5  | 1.8  | 10.78        |
| 1713                  | UC 1713          | 5890 (3)            | 63.0                | 40.0             | 36               | 47                    | 86       | 1.5     | 1.0    | 1.0  | 1.0  | 10.27        |
| 1714                  | UC 1714          | 5710 (5)            | 62.9                | 39.7             | 35               | 47                    | 86       | 1.5     | 1.0    | 1.0  | 1.0  | 11.44        |
| 1715                  | UC 1715          | 5270 (16)           | 60.8                | 40.7             | 36               | 45                    | 82       | 1.0     | 1.0    | 1.0  | 2.3  | 10.62        |
| 1716                  | WINCAL 09196     | 5910 (2)            | 63.8                | 37.9             | 33               | 52                    | 90       | 1.0     | 1.0    | 1.0  | 1.0  | 9.08         |
| 1723                  | ATOMO            | 5800 (4)            | 64.2                | 41.9             | 36               | 42                    | 82       | 1.8     | 1.3    | 2.3  | 1.8  | 10.29        |
| 1724                  | 08SB0073         | 5250 (17)           | 62.2                | 43.7             | 34               | 46                    | 83       | 1.0     | 1.0    | 1.0  | 2.3  | 11.33        |
| 1725                  | ATREVIDO         | 5060 (23)           | 63.6                | 48.1             | 38               | 48                    | 87       | 2.3     | 1.0    | 1.0  | 2.0  | 9.79         |
| 1726                  | 08SB0738         | 5600 (7)            | 63.2                | 39.8             | 36               | 49                    | 88       | 1.3     | 1.0    | 1.0  | 1.0  | 9.86         |
| 1727                  | 08SB0008-B       | 5670 (6)            | 62.2                | 46.5             | 35               | 47                    | 87       | 1.3     | 1.8    | 2.3  | 2.3  | 10.25        |
| 1728                  | WB-JOAQUIN ORO   | 4040 (38)           | 63.9                | 42.2             | 34               | 33                    | 80       | 1.0     | 1.0    | 1.3  | 1.5  | 12.02        |
| 1730                  | WB SJ907-229     | 5120 (20)           | 63.6                | 40.0             | 37               | 46                    | 85       | 1.0     | 1.0    | 1.0  | 2.8  | 11.62        |
| 1732                  | WWW BR2308W      | 5530 (8)            | 63.3                | 42.6             | 38               | 48                    | 88       | 1.3     | 3.5    | 5.8  | 2.3  | 8.70         |
| 1734                  | APB W9-3AL       | 4990 (26)           | 61.4                | 42.3             | 36               | 48                    | 84       | 1.8     | 1.0    | 1.0  | 2.8  | 10.28        |
| 1737                  | APB NM-1         | 4620 (32)           | 60.2                | -                | 31               | 46                    | 81       | 1.0     | -      | -    | -    | 10.66        |
| 1738                  | APB MC-1         | 4420 (35)           | 62.3                | -                | 33               | 50                    | 90       | 1.0     | -      | -    | -    | 10.69        |
|                       | MEAN             | 5030                | 61.8                | 41.5             | 35               | 46                    | 85       | 1.2     | 1.8    | 2.1  | 1.9  | 10.58        |
|                       | CV               | 7.6                 | 2.9                 | 3.5              | 3.8              | 4.2                   | 2.2      | 37.1    | 22.5   | 32.0 | 33.9 |              |
|                       | LSD (.05)        | 540                 | 3.6                 | 2.9              | 2                | 3                     | 3        | 0.6     | 0.6    | 0.9  | 0.9  |              |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

\*Data was used from an adjacent trial under the exact same conditions

Protein is expressed at 12% moisture

2012 Delta Common Wheat Trial

| Entry                 | Name             | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging<br>Harvest | Stripe<br>Rust<br>5/11 | BYDV | Powdery<br>Mildew |
|-----------------------|------------------|---------------------|---------------------|------------------|--------------------|------------------------|------|-------------------|
| <b>CULTIVARS</b>      |                  |                     |                     |                  |                    |                        |      |                   |
| 20                    | ANZA             | 2450 (34)           | 60.8                | 31               | 1.3                | 4.8                    | 1.8  | 1.3               |
| 788                   | EXPRESS          | 2620 (33)           | 59.0                | 35               | 1.2                | 2.3                    | 3.8  | 1.0               |
| 1340                  | MIKA             | 1090 (35)           | 58.7                | 35               | 2.1                | 4.8                    | 4.3  | 1.0               |
| 1424                  | JOAQUIN          | 3500 (22)           | 57.1                | 36               | 2.1                | 7.0                    | 2.0  | 1.0               |
| 1478                  | CAL ROJO         | 2710 (31)           | 58.6                | 27               | 1.0                | 1.0                    | 2.8  | 1.0               |
| 1521                  | REDWING          | 3430 (23)           | 57.8                | 28               | 1.0                | 5.0                    | 1.8  | 1.0               |
| 1522                  | BLANCA ROYALE    | -                   | -                   | -                | -                  | 1.0                    | 3.0  | 1.3               |
| 1523                  | BLANCA FUERTE    | 3670 (18)           | 62.7                | 28               | 1.7                | 2.5                    | 2.5  | 2.3               |
| 1548                  | WB-CRISTALLO     | 3400 (24)           | 59.3                | 30               | 1.0                | 5.3                    | 2.3  | 1.0               |
| 1650                  | WB-ROCKLAND      | 4450 (9)            | 61.4                | 34               | 1.3                | 1.0                    | 3.3  | 1.5               |
| 1657                  | BLANCA GRANDE 51 | -                   | -                   | -                | -                  | 1.0                    | 1.3  | 1.8               |
| 1667                  | NEW DIRKWIN      | 2640 (32)           | 57.2                | 35               | 1.7                | 1.0                    | 2.8  | 1.0               |
| 1680                  | PATWIN 515       | 3160 (28)           | 59.2                | 28               | 1.0                | 1.0                    | 2.0  | 2.3               |
| 1729                  | WB-PERLA         | 2980 (29)           | 60.8                | 31               | 1.5                | 1.5                    | 3.0  | 1.0               |
| 1731                  | WB-PATRON        | 3340 (26)           | 59.1                | 36               | 1.3                | 1.0                    | 3.5  | 1.0               |
| <b>ADVANCED LINES</b> |                  |                     |                     |                  |                    |                        |      |                   |
| 1624                  | WB DA905-10      | 5580 (1)            | 60.4                | 36               | 2.1                | 4.3                    | 1.8  | 1.3               |
| 1679                  | CLEAR WHITE 515  | 4780 (2)            | 59.9                | 37               | 2.1                | 1.0                    | 3.3  | 1.8               |
| 1684                  | WWW CABR3509W    | 3170 (27)           | 59.9                | 33               | 1.5                | 3.8                    | 3.5  | 1.0               |
| 1686                  | 08SB100          | -                   | -                   | -                | -                  | 1.0                    | 3.0  | 1.0               |
| 1688                  | 08SB0658-B       | 4760 (3)            | 59.6                | 38               | 2.1                | 2.0                    | 2.0  | 1.0               |
| 1710                  | UC 1710          | 2960 (30)           | 61.4                | 30               | 1.7                | 1.0                    | 2.0  | 1.0               |
| 1711                  | UC 1711          | 4380 (10)           | 61.9                | 27               | 1.2                | 2.0                    | 3.5  | 2.3               |
| 1712                  | UC 1712          | 3380 (25)           | 58.4                | 29               | 1.0                | 4.0                    | 1.8  | 1.3               |
| 1713                  | UC 1713          | 4580 (7)            | 60.6                | 30               | 1.7                | 1.0                    | 1.5  | 2.5               |
| 1714                  | UC 1714          | 4740 (4)            | 60.0                | 28               | 1.1                | 1.3                    | 1.3  | 1.3               |
| 1715                  | UC 1715          | 3780 (17)           | 58.1                | 34               | 1.8                | 1.3                    | 3.5  | 1.0               |
| 1716                  | WINCAL 09196     | 3870 (16)           | 59.9                | 29               | 1.2                | 3.5                    | 2.3  | 1.3               |
| 1723                  | ATOMO            | 4300 (11)           | 60.7                | 29               | 1.4                | 3.8                    | 2.8  | 1.0               |
| 1724                  | 08SB0073         | 3640 (20)           | 59.0                | 26               | 1.1                | 1.8                    | 3.0  | 1.3               |
| 1725                  | ATREVIDO         | 4660 (5)            | 61.1                | 33               | 1.8                | 1.0                    | 3.0  | 1.0               |
| 1726                  | 08SB0738         | 4570 (8)            | 61.4                | 34               | 1.1                | 1.0                    | 2.3  | 1.0               |
| 1727                  | 08SB0008-B       | 3990 (14)           | 58.5                | 31               | 1.1                | 3.8                    | 2.3  | 1.0               |
| 1728                  | WB-JOAQUIN ORO   | 4630 (6)            | 62.1                | 34               | 2.5                | 1.0                    | 3.0  | 1.8               |
| 1730                  | WB SJ907-229     | 3950 (15)           | 62.0                | 33               | 1.2                | 1.0                    | 5.0  | 1.3               |
| 1732                  | WWW BR2308W      | 4000 (13)           | 60.2                | 35               | 1.6                | 4.0                    | 4.3  | 1.0               |
| 1734                  | APB W9-3AL       | 4020 (12)           | 59.7                | 31               | 1.5                | 1.0                    | 3.0  | 1.0               |
| 1737                  | APB NM-1         | 3670 (19)           | 61.0                | 34               | 2.1                | 1.3                    | 3.3  | 2.3               |
| 1738                  | APB MC-1         | 3590 (21)           | 59.1                | 28               | 1.2                | 2.5                    | 2.3  | 1.0               |
|                       | MEAN             | 3610                | 60.0                | 31               | 1.5                | 2.3                    | 2.7  | 1.3               |
|                       | CV               | 19.2                | 1.6                 | 7.6              | 31.9               | 26.0                   | 27.5 | 30.8              |
|                       | LSD (.05)        | 1000                | 1.4                 | 3                | ns                 | 0.8                    | 1.0  | 0.6               |

Rating scale for diseases (area of flag-1 leaf affected), and lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms. Numbers in parentheses indicate relative rank in column.

2012 Fresno Common Wheat Trial

| Entry                 | Name             | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Shatter | Stripe<br>Rust<br>5/21 | BYDV<br>5/21 | Protein<br>% |
|-----------------------|------------------|---------------------|---------------------|------------------|------------------|---------|------------------------|--------------|--------------|
|                       |                  |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) |         |                        |              |              |
| <b>CULTIVARS</b>      |                  |                     |                     |                  |                  |         |                        |              |              |
| 20                    | ANZA             | 5460 (13)           | 62.1                | 39.7             | 40               | 1.5     | 4.8                    | 1.3          | 9.64         |
| 788                   | EXPRESS          | 5030 (28)           | 63.4                | 41.9             | 38               | 1.0     | 1.0                    | 2.3          | 11.37        |
| 1340                  | MIKA             | 4190 (38)           | 62.3                | 35.2             | 43               | 1.7     | 4.3                    | 3.0          | 11.33        |
| 1424                  | JOAQUIN          | 5120 (23)           | 63.7                | 46.4             | 38               | 1.0     | 7.5                    | 2.5          | 11.82        |
| 1478                  | CAL ROJO         | 4490 (35)           | 62.3                | 43.0             | 34               | 1.0     | 1.0                    | 2.3          | 10.20        |
| 1521                  | REDWING          | 4760 (32)           | 60.8                | 41.8             | 29               | 1.0     | 1.8                    | 1.3          | 11.42        |
| 1522                  | BLANCA ROYALE    | 5290 (17)           | 64.0                | 42.4             | 34               | 1.0     | 1.0                    | 1.3          | 10.84        |
| 1523                  | BLANCA FUERTE    | 5470 (12)           | 65.9                | 46.9             | 33               | 1.0     | 1.0                    | 1.3          | 9.93         |
| 1548                  | WB-CRISTALLO     | 5350 (14)           | 63.3                | 42.2             | 38               | 1.0     | 2.0                    | 1.3          | 11.45        |
| 1650                  | WB-ROCKLAND      | 4770 (31)           | 63.8                | 43.5             | 38               | 1.0     | 1.0                    | 2.0          | 13.31        |
| 1657                  | BLANCA GRANDE 51 | 5160 (22)           | 65.7                | 46.2             | 38               | 1.3     | 1.0                    | 1.0          | 11.73        |
| 1667                  | NEW DIRKWIN      | 4440 (37)           | 58.3                | 38.5             | 45               | 2.0     | 1.0                    | 1.3          | 10.45        |
| 1680                  | PATWIN 515       | 5260 (18)           | 62.2                | 38.2             | 33               | 1.0     | 1.3                    | 1.3          | 10.99        |
| 1729                  | WB-PERLA         | 5310 (16)           | 63.8                | 44.9             | 38               | 1.0     | 1.0                    | 1.8          | 12.41        |
| 1731                  | WB-PATRON        | 5310 (15)           | 63.3                | 47.1             | 39               | 1.7     | 1.0                    | 2.5          | 11.20        |
| <b>ADVANCED LINES</b> |                  |                     |                     |                  |                  |         |                        |              |              |
| 1624                  | WB DA905-10      | 5770 (3)            | 63.1                | 42.9             | 38               | 1.0     | 3.0                    | 1.0          | 10.43        |
| 1679                  | CLEAR WHITE 515  | 4860 (30)           | 62.2                | 42.6             | 41               | 1.0     | 1.0                    | 1.8          | 11.55        |
| 1684                  | WWW CABR3509W    | 5240 (20)           | 64.0                | 48.0             | 36               | 1.0     | 2.0                    | 1.3          | 10.43        |
| 1686                  | 08SB100          | 4680 (33)           | 63.5                | 40.9             | 40               | 1.0     | 1.0                    | 2.3          | 11.90        |
| 1688                  | 08SB0658-B       | 5780 (2)            | 64.0                | 41.7             | 41               | 1.5     | 1.0                    | 1.0          | 11.11        |
| 1710                  | UC 1710          | 4550 (34)           | 63.4                | 41.3             | 38               | 1.0     | 1.0                    | 1.5          | 12.23        |
| 1711                  | UC 1711          | 5540 (7)            | 64.0                | 46.2             | 32               | 1.0     | 1.0                    | 1.5          | 10.24        |
| 1712                  | UC 1712          | 5510 (10)           | 63.3                | 50.6             | 34               | 1.0     | 1.8                    | 1.8          | 11.10        |
| 1713                  | UC 1713          | 5050 (27)           | 63.1                | 43.1             | 36               | 1.3     | 1.0                    | 1.0          | 11.68        |
| 1714                  | UC 1714          | 5050 (26)           | 62.6                | 40.9             | 39               | 1.5     | 1.0                    | 1.0          | 11.28        |
| 1715                  | UC 1715          | 4970 (29)           | 60.6                | 42.8             | 38               | 1.0     | 1.0                    | 1.8          | 12.68        |
| 1716                  | WINCAL 09196     | 5260 (19)           | 63.9                | 37.4             | 34               | 1.0     | 1.5                    | 1.0          | 10.89        |
| 1723                  | ATOMO            | 5580 (6)            | 64.8                | 42.2             | 37               | 1.0     | 1.5                    | 1.5          | 10.89        |
| 1724                  | 08SB0073         | 5100 (24)           | 62.1                | 45.2             | 35               | 1.0     | 1.0                    | 1.8          | 10.46        |
| 1725                  | ATREVIDO         | 5480 (11)           | 63.1                | 47.1             | 40               | 1.3     | 1.5                    | 1.3          | 10.40        |
| 1726                  | 08SB0738         | 5530 (9)            | 63.4                | 40.5             | 38               | 1.0     | 1.0                    | 1.0          | 10.46        |
| 1727                  | 08SB0008-B       | 5530 (8)            | 62.2                | 51.1             | 34               | 1.0     | 1.8                    | 1.3          | 11.51        |
| 1728                  | WB-JOAQUIN ORO   | 5090 (25)           | 64.1                | 47.6             | 36               | 1.0     | 1.0                    | 1.5          | 12.80        |
| 1730                  | WB SJ907-229     | 6090 (1)            | 64.3                | 42.6             | 37               | 1.0     | 1.3                    | 1.5          | 12.50        |
| 1732                  | WWW BR2308W      | 5590 (5)            | 63.9                | 45.1             | 37               | 1.0     | 2.5                    | 1.3          | 10.11        |
| 1734                  | APB W9-3AL       | 5190 (21)           | 62.8                | 46.1             | 36               | 1.0     | 1.0                    | 1.5          | 12.01        |
| 1737                  | APB NM-1         | 5630 (4)            | 63.5                | 48.3             | 40               | 1.0     | 1.0                    | 1.5          | 9.62         |
| 1738                  | APB MC-1         | 4460 (36)           | 62.5                | 47.4             | 33               | 1.0     | 1.0                    | 1.8          | 10.84        |
|                       | MEAN             | 5190                | 63.0                | 42.8             | 37               | 1.1     | 1.6                    | 1.5          | 11.19        |
|                       | CV               | 8.1                 | 0.7                 | 3.3              | 4.7              | 22.8    | 45.4                   | 50.7         |              |
|                       | LSD (.05)        | 590                 | 0.6                 | 2.0              | 3                | 0.4     | 1.0                    | 1.1          |              |

Rating scale for diseases (area of flag-1 leaf affected), and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

## 2012 Kings Common Wheat Trial

| Entry                 | Name              | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000<br>Kernel Wt<br>(g) | Plant Ht<br>(in) | Shatter | Stripe<br>Rust<br>4/30 | BYDV | Protein<br>% |
|-----------------------|-------------------|---------------------|---------------------|--------------------------|------------------|---------|------------------------|------|--------------|
| <b>CULTIVARS</b>      |                   |                     |                     |                          |                  |         |                        |      |              |
| 20                    | ANZA              | 5750 (28)           | 63.0                | 37.0                     | 35               | 1.0     | 5.0                    | 1.8  | 11.83        |
| 788                   | EXPRESS           | 6110 (21)           | 63.5                | 41.7                     | 39               | 1.0     | 1.0                    | 2.5  | 14.29        |
| 1340                  | MIKA              | 4320 (37)           | 60.4                | 33.5                     | 36               | 1.0     | 1.8                    | 3.0  | 14.19        |
| 1419                  | PATWIN*           | 6670 (9)            | 60.9                | -                        | 31               | 1.0     | 1.0                    | 1.5  | -            |
| 1424                  | JOAQUIN           | 6200 (17)           | 63.8                | 45.9                     | 37               | 1.0     | 7.5                    | 1.3  | 14.39        |
| 1478                  | CAL ROJO          | -                   | 59.9                | 36.5                     | 28               | 1.0     | 1.0                    | 2.0  | 13.50        |
| 1495                  | LASSIK*           | 7170 (2)            | 61.7                | -                        | 34               | 1.0     | 1.0                    | 2.0  | -            |
| 1521                  | REDWING           | -                   | 57.4                | 36.8                     | 26               | 1.0     | 3.5                    | 2.0  | 13.90        |
| 1522                  | BLANCA ROYALE     | 6500 (12)           | 62.8                | 38.2                     | 34               | 1.0     | 1.0                    | 1.5  | 13.19        |
| 1523                  | BLANCA FUERTE     | 6800 (7)            | 64.7                | 44.1                     | 34               | 1.0     | 1.0                    | 1.3  | 12.00        |
| 1548                  | WB-CRISTALLO      | 6630 (10)           | 63.5                | 42.5                     | 37               | 1.0     | 2.0                    | 1.5  | 13.52        |
| 1650                  | WB-ROCKLAND       | 6120 (20)           | 63.4                | 44.0                     | 36               | 1.0     | 1.0                    | 1.3  | 15.15        |
| 1657                  | BLANCA GRANDE 515 | 6400 (13)           | 65.0                | 44.2                     | 39               | 1.0     | 1.0                    | 1.3  | 14.27        |
| 1667                  | NEW DIRKWIN       | 4580 (36)           | 58.1                | 38.0                     | 42               | 1.3     | 1.0                    | 1.8  | 12.96        |
| 1680                  | PATWIN 515        | 6960 (4)            | 61.3                | 35.6                     | 31               | 1.0     | 1.0                    | 1.3  | 13.02        |
| 1729                  | WB-PERLA          | 6020 (24)           | 63.8                | 44.1                     | 37               | 1.0     | 1.5                    | 2.0  | 14.59        |
| 1731                  | WB-PATRON         | 6880 (6)            | 62.9                | 47.2                     | 39               | 1.0     | 1.0                    | 1.3  | 12.96        |
| <b>ADVANCED LINES</b> |                   |                     |                     |                          |                  |         |                        |      |              |
| 1624                  | WB DA905-10       | 6800 (7)            | 63.1                | 43.0                     | 38               | 1.0     | 2.0                    | 1.3  | 13.25        |
| 1679                  | CLEAR WHITE 515   | 5530 (32)           | 60.8                | 39.9                     | 40               | 1.0     | 1.0                    | 2.5  | 14.50        |
| 1684                  | WWW CABR3509W     | 6070 (23)           | 63.0                | 42.5                     | 35               | 1.0     | 2.8                    | 2.0  | 12.90        |
| 1686                  | 08SB100           | 5620 (30)           | 62.4                | 38.3                     | 37               | 1.0     | 1.0                    | 2.3  | 13.52        |
| 1688                  | 08SB0658-B        | 6900 (5)            | 63.1                | 39.0                     | 39               | 1.0     | 1.0                    | 1.8  | 12.75        |
| 1710                  | UC 1710           | 5960 (26)           | 62.6                | 39.0                     | 32               | 1.0     | 1.0                    | 1.3  | 14.11        |
| 1711                  | UC 1711           | 6290 (16)           | 63.6                | 47.3                     | 31               | 1.0     | 1.3                    | 1.8  | 13.73        |
| 1712                  | UC 1712           | 6360 (14)           | 61.8                | 48.2                     | 30               | 1.0     | 1.8                    | 1.8  | 13.02        |
| 1713                  | UC 1713           | 7030 (3)            | 62.6                | 40.2                     | 37               | 1.0     | 1.0                    | 1.0  | 13.59        |
| 1714                  | UC 1714           | 6560 (11)           | 62.4                | 40.9                     | 37               | 1.0     | 1.0                    | 1.0  | 13.65        |
| 1715                  | UC 1715           | 6140 (18)           | 59.9                | 40.4                     | 37               | 1.0     | 1.0                    | 2.3  | 14.42        |
| 1716                  | WINCAL 09196      | 5700 (29)           | 62.2                | 33.4                     | 33               | 1.0     | 1.0                    | 1.0  | 12.90        |
| 1723                  | ATOMO             | 7290 (1)            | 64.8                | 43.1                     | 35               | 1.0     | 1.3                    | 1.3  | 13.29        |
| 1724                  | 08SB0073          | 5950 (27)           | 61.0                | 44.3                     | 35               | 1.0     | 1.0                    | 2.5  | 13.37        |
| 1725                  | ATREVIDO          | 5520 (33)           | 60.8                | 39.2                     | 36               | 1.0     | 1.0                    | 3.0  | 13.47        |
| 1726                  | 08SB0738          | 6140 (18)           | 62.1                | 38.7                     | 35               | 1.0     | 1.0                    | 1.0  | 13.77        |
| 1727                  | 08SB0008-B        | 6000 (25)           | 61.6                | 44.8                     | 33               | 1.0     | 1.3                    | 1.5  | 13.11        |
| 1728                  | WB-JOAQUIN ORO    | 5330 (35)           | 63.6                | 47.5                     | 37               | 1.0     | 1.0                    | 2.0  | 15.11        |
| 1730                  | WB SJ907-229      | 6330 (15)           | 63.6                | 40.2                     | 38               | 1.0     | 1.0                    | 3.3  | 14.51        |
| 1732                  | WWW BR2308W       | 5480 (34)           | 62.4                | 40.5                     | 33               | 1.0     | 2.0                    | 2.5  | 11.87        |
| 1734                  | APB W9-3AL        | 5600 (31)           | 61.4                | 40.7                     | 35               | 1.0     | 1.0                    | 2.8  | 14.13        |
| 1737                  | APB NM-1          | 6110 (21)           | 62.3                | 45.0                     | 36               | 1.0     | 1.0                    | 1.0  | 12.02        |
| 1738                  | APB MC-1          | -                   | 60.7                | 46.0                     | 31               | 1.0     | 1.0                    | 1.5  | 12.69        |
|                       | MEAN              | 6160                | 62.2                | 41.3                     | 35               | 1.0     | 1.5                    | 1.8  | 13.51        |
|                       | CV                | 11.1                | 1.1                 | 4.3                      | 5.7              | 7.9     | 37.5                   | 49.5 |              |
|                       | LSD (.05)         | 960                 | 1.4                 | 3.6                      | 3                | ns      | 0.8                    | 1.2  |              |

Rating scale for diseases (area of flag-1 leaf affected) and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

\*Data comes from adjacent trials that were conducted under the exact same conditions

Protein is expressed at 12% moisture

2012 Kern Common Wheat Trial

| Entry                 | Name             | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging | Lodging<br>Harvest | BYDV | Protein<br>% |
|-----------------------|------------------|---------------------|---------------------|------------------|---------|--------------------|------|--------------|
| <b>CULTIVARS</b>      |                  |                     |                     |                  |         |                    |      |              |
| 20                    | ANZA             | 4570 (34)           | 61.0                | 33               | 2.3     | 4.0                | 1.5  | 10.88        |
| 788                   | EXPRESS          | 5460 (16)           | 61.3                | 35               | 4.3     | 5.8                | 1.8  | 12.38        |
| 1340                  | MIKA             | 3100 (37)           | 60.4                | 39               | 5.5     | 7.5                | 1.8  | 13.01        |
| 1424                  | JOAQUIN          | 6460 (1)            | 61.2                | 32               | 1.5     | 1.8                | 1.5  | 12.21        |
| 1478                  | CAL ROJO         | 5380 (20)           | 58.4                | 32               | 1.0     | 1.0                | 1.8  | 12.20        |
| 1521                  | REDWING          | 6010 (4)            | 58.3                | 30               | 1.0     | 2.0                | 1.8  | 12.50        |
| 1522                  | BLANCA ROYALE    | 5290 (23)           | 59.8                | 33               | 1.3     | 1.8                | 1.0  | 12.80        |
| 1523                  | BLANCA FUERTE    | 5530 (13)           | 61.2                | 31               | 1.0     | 1.3                | 2.3  | 11.44        |
| 1548                  | WB-CRISTALLO     | 5370 (21)           | 61.0                | 35               | 1.5     | 4.3                | 2.0  | 12.25        |
| 1650                  | WB-ROCKLAND      | 5220 (25)           | 60.4                | 32               | 1.0     | 1.0                | 1.8  | 12.92        |
| 1657                  | BLANCA GRANDE 51 | 5800 (9)            | 63.7                | 35               | 4.3     | 7.0                | 1.0  | 12.48        |
| 1667                  | NEW DIRKWIN      | 2850 (38)           | 56.4                | 39               | 2.8     | 5.8                | 1.5  | 12.04        |
| 1680                  | PATWIN 515       | 5430 (18)           | 59.0                | 32               | 1.3     | 1.0                | 1.8  | 12.23        |
| 1729                  | WB-PERLA         | 5590 (12)           | 61.7                | 31               | 2.8     | 3.8                | 1.3  | 12.39        |
| 1731                  | WB-PATRON        | 4590 (33)           | 59.0                | 35               | 1.8     | 4.5                | 2.5  | 12.52        |
| <b>ADVANCED LINES</b> |                  |                     |                     |                  |         |                    |      |              |
| 1624                  | WB DA905-10      | 6170 (2)            | 61.6                | 35               | 1.5     | 3.3                | 1.0  | 11.66        |
| 1679                  | CLEAR WHITE 515  | 5170 (26)           | 59.6                | 35               | 1.0     | 1.0                | 1.3  | 12.47        |
| 1684                  | WWW CABR3509W    | 5690 (11)           | 61.1                | 33               | 1.8     | 2.3                | 2.0  | 10.08        |
| 1686                  | 08SB100          | 4490 (35)           | 61.0                | 35               | 1.0     | 1.8                | 1.8  | 12.14        |
| 1688                  | 08SB0658-B       | 5090 (28)           | 58.4                | 35               | 4.0     | 6.0                | 1.3  | 12.27        |
| 1710                  | UC 1710          | 4780 (30)           | 61.2                | 33               | 1.0     | 1.5                | 1.5  | 12.78        |
| 1711                  | UC 1711          | 5820 (8)            | 62.1                | 31               | 1.0     | 1.3                | 1.3  | 10.94        |
| 1712                  | UC 1712          | 5470 (15)           | 59.1                | 30               | 1.0     | 2.0                | 1.5  | 12.17        |
| 1713                  | UC 1713          | 5960 (6)            | 60.0                | 33               | 1.0     | 2.3                | 1.5  | 12.40        |
| 1714                  | UC 1714          | 5980 (5)            | 60.0                | 35               | 1.3     | 3.8                | 1.3  | 12.23        |
| 1715                  | UC 1715          | 5340 (22)           | 58.5                | 32               | 1.5     | 3.5                | 2.0  | 12.88        |
| 1716                  | WINCAL 09196     | 4470 (36)           | 60.6                | 31               | 1.0     | 1.0                | 1.5  | 11.70        |
| 1723                  | ATOMO            | 6020 (3)            | 61.0                | 34               | 1.0     | 2.3                | 1.5  | 12.42        |
| 1724                  | 08SB0073         | 4720 (31)           | 59.3                | 34               | 1.0     | 1.0                | 2.3  | 12.08        |
| 1725                  | ATREVIDO         | 5000 (29)           | 58.9                | 34               | 2.5     | 5.0                | 1.5  | 11.83        |
| 1726                  | 08SB0738         | 4650 (32)           | 60.2                | 33               | 1.3     | 5.5                | 1.5  | 12.37        |
| 1727                  | 08SB0008-B       | 5510 (14)           | 59.6                | 32               | 1.0     | 1.0                | 2.0  | 12.16        |
| 1728                  | WB-JOAQUIN ORO   | 5910 (7)            | 62.1                | 34               | 1.3     | 1.3                | 2.0  | 12.22        |
| 1730                  | WB SJ907-229     | 5760 (10)           | 62.6                | 34               | 1.5     | 4.0                | 1.0  | 12.45        |
| 1732                  | WWW BR2308W      | 5160 (27)           | 59.5                | 35               | 2.3     | 2.8                | 2.8  | 10.35        |
| 1734                  | APB W9-3AL       | 5250 (24)           | 59.4                | 34               | 1.0     | 1.5                | 2.0  | 12.52        |
| 1737                  | APB NM-1         | 5450 (17)           | 60.5                | 36               | 4.8     | 7.0                | 1.0  | 10.46        |
| 1738                  | APB MC-1         | 5410 (19)           | 58.9                | 32               | 1.0     | 2.0                | 2.0  | 11.73        |
|                       | MEAN             | 5260                | 60.2                | 33               | 1.8     | 3.0                | 1.6  | 12.07        |
|                       | CV               | 8.6                 | 1.0                 | 4                | 43.9    | 40.8               | 46.6 |              |
|                       | LSD (.05)        | 640                 | 1.2                 | 3                | 1.1     | 1.7                | ns   |              |

Rating scale for diseases (area of flag-1 leaf affected), and lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms. Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

## 2012 Imperial Common Wheat Trial

| Entry                 | Name              | Yield<br>(lb/acre) | Test Wt<br>(lb/bu) | 1000             | Plant Ht<br>(in) | Days To    |          | Protein<br>% |  |
|-----------------------|-------------------|--------------------|--------------------|------------------|------------------|------------|----------|--------------|--|
|                       |                   |                    |                    | Kernel Wt<br>(g) |                  | Heading    | Maturity |              |  |
|                       |                   |                    |                    |                  |                  | (From 1/1) |          |              |  |
| <b>CULTIVARS</b>      |                   |                    |                    |                  |                  |            |          |              |  |
| 20                    | ANZA              | 7650 (11)          | 62.3               | 32.6             | 35               | 86         | 134      | 11.36        |  |
| 788                   | EXPRESS           | 7290 (16)          | 62.5               | 37.4             | 38               | 86         | 131      | 13.77        |  |
| 1340                  | MIKA              | 6680 (32)          | 62.0               | 31.7             | 40               | 89         | 134      | 13.66        |  |
| 1424                  | JOAQUIN           | 8030 (3)           | 63.0               | 42.9             | 35               | 81         | 129      | 13.17        |  |
| 1478                  | CAL ROJO          | 6790 (26)          | 59.5               | 34.8             | 33               | 85         | 128      | 13.22        |  |
| 1521                  | REDWING           | 6850 (25)          | 59.8               | 36.1             | 30               | 87         | 130      | 12.86        |  |
| 1522                  | BLANCA ROYALE     | 6780 (27)          | 62.0               | 36.1             | 34               | 84         | 128      | 13.29        |  |
| 1523                  | BLANCA FUERTE     | 7890 (5)           | 63.3               | 38.7             | 31               | 86         | 133      | 11.00        |  |
| 1548                  | WB-CRISTALLO      | 7260 (17)          | 62.0               | 34.5             | 34               | 88         | 131      | 13.09        |  |
| 1650                  | WB-ROCKLAND       | 7250 (18)          | 63.0               | 38.8             | 33               | 87         | 133      | 14.86        |  |
| 1657                  | BLANCA GRANDE 515 | 7670 (9)           | 64.5               | 41.6             | 39               | 84         | 128      | 13.72        |  |
| 1667                  | NEW DIRKWIN       | 6160 (37)          | 57.8               | 32.4             | 39               | 94         | 137      | 11.71        |  |
| 1680                  | PATWIN 515        | 7250 (19)          | 60.0               | 29.4             | 32               | 90         | 133      | 12.98        |  |
| 1729                  | WB-PERLA          | 7540 (14)          | 62.8               | 42.0             | 35               | 79         | 128      | 13.66        |  |
| 1731                  | WB-PATRON         | 7560 (13)          | 62.0               | 40.4             | 38               | 85         | 134      | 13.03        |  |
| <b>ADVANCED LINES</b> |                   |                    |                    |                  |                  |            |          |              |  |
| 1624                  | WB DA905-10       | 7560 (12)          | 62.3               | 37.6             | 36               | 85         | 129      | 12.92        |  |
| 1679                  | CLEAR WHITE 515   | 6700 (31)          | 61.0               | 39.2             | 39               | 84         | 128      | 14.09        |  |
| 1684                  | WWW CABR3509W     | 7670 (10)          | 62.8               | 38.5             | 33               | 86         | 132      | 11.43        |  |
| 1686                  | 08SB100           | 6640 (33)          | 62.0               | 35.1             | 35               | 85         | 132      | 12.79        |  |
| 1688                  | 08SB0658-B        | 7900 (4)           | 62.0               | 37.2             | 37               | 86         | 133      | 13.09        |  |
| 1710                  | UC 1710           | 7210 (20)          | 62.0               | 35.7             | 35               | 89         | 134      | 13.84        |  |
| 1711                  | UC 1711           | 4250 (38)          | 56.8               | 27.7             | 30               | 107        | 140      | 13.41        |  |
| 1712                  | UC 1712           | 6290 (36)          | 59.8               | 33.4             | 29               | 88         | 134      | 12.98        |  |
| 1713                  | UC 1713           | 7040 (24)          | 62.5               | 39.7             | 34               | 86         | 131      | 12.71        |  |
| 1714                  | UC 1714           | 7140 (23)          | 62.0               | 37.8             | 35               | 86         | 131      | 12.81        |  |
| 1715                  | UC 1715           | 6730 (29)          | 60.0               | 35.6             | 35               | 88         | 131      | 14.00        |  |
| 1716                  | WINCAL 09196      | 6400 (35)          | 61.0               | 27.8             | 31               | 90         | 134      | 11.91        |  |
| 1723                  | ATOMO             | 8300 (2)           | 62.5               | 34.9             | 35               | 85         | 131      | 12.30        |  |
| 1724                  | 08SB0073          | 6760 (28)          | 61.5               | 38.7             | 33               | 86         | 129      | 12.65        |  |
| 1725                  | ATREVIDO          | 6720 (30)          | 61.5               | 40.4             | 36               | 87         | 131      | 12.44        |  |
| 1726                  | 08SB0738          | 6520 (34)          | 60.5               | 30.5             | 33               | 87         | 133      | 13.45        |  |
| 1727                  | 08SB0008-B        | 7690 (8)           | 61.0               | 41.0             | 32               | 86         | 135      | 12.56        |  |
| 1728                  | WB-JOAQUIN ORO    | 7840 (7)           | 63.0               | 43.2             | 34               | 78         | 128      | 13.66        |  |
| 1730                  | WB SJ907-229      | 7510 (15)          | 63.0               | 36.6             | 35               | 86         | 130      | 14.54        |  |
| 1732                  | WWW BR2308W       | 7850 (6)           | 62.0               | 36.7             | 35               | 86         | 134      | 10.90        |  |
| 1734                  | APB W9-3AL        | 7180 (21)          | 61.0               | 37.6             | 33               | 87         | 132      | 14.27        |  |
| 1737                  | APB NM-1          | 8410 (1)           | 61.3               | 37.8             | 37               | 87         | 132      | 11.21        |  |
| 1738                  | APB MC-1          | 7160 (22)          | 60.3               | 39.7             | 34               | 87         | 131      | 13.20        |  |
| MEAN                  |                   | 7160               | 61.5               | 36.6             | 35               | 87         | 132      | 12.96        |  |
| CV                    |                   | 4.1                | 0.7                |                  | 1.6              | 0.9        | 0.9      |              |  |
| LSD (.05)             |                   | 410                | 0.6                |                  | 2                | 1          | 2        |              |  |

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2012 Clarksburg Common Wheat Trial

| Entry       | Name            | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Lodging       |         | Shatter | BYDV | Protein<br>% |
|-------------|-----------------|---------------------|---------------------|------------------|------------------|---------------|---------|---------|------|--------------|
|             |                 |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Soft<br>Dough | Harvest |         |      |              |
| CULTIVARS   |                 |                     |                     |                  |                  |               |         |         |      |              |
| 20          | ANZA            | 5760 (19)           | 60.9                | 30.5             | 36               | 1.0           | 1.0     | 1.5     | 2.5  | 11.19        |
| 788         | EXPRESS         | 5170 (27)           | 60.5                | 32.7             | 38               | 1.0           | 1.0     | 2.0     | 4.0  | 11.95        |
| 1340        | MIKA            | 4030 (31)           | 57.7                | 27.2             | 42               | 3.0           | 3.8     | 1.5     | 4.0  | 12.08        |
| 1424        | JOAQUIN         | 6010 (13)           | 62.6                | 38.8             | 37               | 1.0           | 1.0     | 1.5     | 3.0  | 12.29        |
| 1548        | WB-CRISTALLO    | 5760 (18)           | 60.3                | 31.6             | 36               | 1.0           | 1.0     | 1.3     | 2.3  | 12.28        |
| 1650        | WB-ROCKLAND     | 6130 (10)           | 63.1                | 39.6             | 33               | 1.0           | 1.0     | 1.3     | 3.8  | 11.96        |
| 1667        | NEW DIRKWIN     | 4110 (30)           | 56.6                | 30.5             | 41               | 1.0           | 1.5     | 2.0     | 2.5  | 10.17        |
| 1680        | PATWIN 515      | 5850 (17)           | 58.1                | 29.0             | 33               | 1.0           | 1.0     | 1.5     | 3.8  | 12.72        |
| 1729        | WB-PERLA        | 6040 (12)           | 62.6                | 36.3             | 36               | 1.0           | 1.0     | 1.5     | 1.8  | 12.23        |
| 1731        | WB-PATRON       | 5380 (24)           | 59.3                | 36.1             | 40               | 1.0           | 1.0     | 2.0     | 4.0  | 12.22        |
| ANCED LINES |                 |                     |                     |                  |                  |               |         |         |      |              |
| 1624        | WB DA905-10     | 6560 (3)            | 61.7                | 34.7             | 37               | 1.0           | 1.0     | 1.3     | 3.3  | 10.20        |
| 1679        | CLEAR WHITE 515 | 5420 (23)           | 61.4                | 34.7             | 38               | 1.0           | 1.0     | 1.5     | 3.0  | 12.28        |
| 1684        | WWW CABR3509W   | 5710 (20)           | 62.3                | 36.4             | 37               | 1.0           | 1.0     | 1.8     | 3.5  | 10.53        |
| 1686        | 08SB100         | 5440 (22)           | 61.3                | 33.2             | 36               | 1.0           | 1.0     | 1.3     | 2.8  | 11.64        |
| 1688        | 08SB0658-B      | 5920 (15)           | 60.2                | 33.1             | 37               | 1.0           | 1.0     | 2.0     | 2.3  | 12.13        |
| 1710        | UC 1710         | 4870 (29)           | 61.3                | 30.6             | 36               | 1.0           | 1.0     | 1.8     | 3.3  | 12.41        |
| 1711        | UC 1711         | 6440 (4)            | 62.9                | 40.4             | 32               | 1.0           | 1.0     | 1.0     | 2.8  | 10.81        |
| 1712        | UC 1712         | 6140 (9)            | 61.1                | 40.9             | 30               | 1.0           | 1.0     | 1.0     | 2.5  | 11.32        |
| 1713        | UC 1713         | 6280 (6)            | 61.3                | 33.7             | 35               | 1.0           | 1.0     | 1.8     | 1.0  | 12.17        |
| 1714        | UC 1714         | 5850 (16)           | 60.8                | 34.1             | 38               | 1.0           | 1.0     | 2.5     | 1.3  | 11.47        |
| 1715        | UC 1715         | 6300 (5)            | 57.9                | 34.6             | 38               | 1.0           | 1.0     | 1.0     | 2.3  | 12.43        |
| 1716        | WINCAL 09196    | 5300 (25)           | 57.3                | 24.4             | 33               | 1.0           | 1.0     | 1.0     | 1.8  | 12.80        |
| 1723        | ATOMO           | 7060 (1)            | 61.3                | 33.4             | 36               | 1.0           | 1.0     | 1.8     | 3.3  | 12.21        |
| 1724        | 08SB0073        | 5940 (14)           | 61.1                | 38.2             | 32               | 1.0           | 1.0     | 1.0     | 4.0  | 11.47        |
| 1725        | ATREVIDO        | 5470 (21)           | 57.6                | 32.7             | 39               | 1.0           | 1.0     | 2.0     | 3.8  | 11.58        |
| 1726        | 08SB0738        | 6050 (11)           | 61.1                | 30.7             | 35               | 1.0           | 1.0     | 1.3     | 2.0  | 12.24        |
| 1727        | 08SB0008-B      | 7020 (2)            | 61.9                | 43.3             | 35               | 1.0           | 1.0     | 1.3     | 2.0  | 10.79        |
| 1728        | WB-JOAQUIN ORO  | 5140 (28)           | 63.5                | 43.3             | 35               | 1.0           | 1.0     | 1.5     | 2.3  | 12.70        |
| 1730        | WB SJ907-229    | 6180 (7)            | 61.4                | 31.5             | 34               | 1.0           | 1.0     | 1.0     | 4.0  | 12.14        |
| 1732        | WWW BR2308W     | 6140 (8)            | 61.3                | 34.7             | 38               | 1.0           | 1.3     | 1.5     | 3.0  | 11.07        |
| 1734        | APB W9-3AL      | 5280 (26)           | 58.8                | 32.9             | 36               | 1.0           | 1.0     | 1.5     | 3.8  | 13.11        |
|             | MEAN            | 5770                | 60.6                | 34.3             | 36               | 1.1           | 1.1     | 1.5     | 2.9  | 11.83        |
|             | CV              | 7.7                 | 1.6                 | 6.1              | 3.1              | 23.9          | 27.1    | 32.8    | 31.0 |              |
|             | LSD (.05)       | 620                 | 2.0                 | 4.3              | 2                | 0.4           | 0.4     | 0.7     | 1.2  |              |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.



2012 Tulare Rainfed Common Wheat Trial

| Entry                 | Name              | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) |
|-----------------------|-------------------|---------------------|---------------------|------------------|
| <u>CULTIVARS</u>      |                   |                     |                     |                  |
| 20                    | ANZA              | 1660 (17)           | 63.2                | 25               |
| 788                   | EXPRESS           | 1850 (6)            | 62.2                | 29               |
| 1340                  | MIKA              | 1630 (19)           | 63.2                | 29               |
| 1424                  | JOAQUIN           | 1650 (18)           | 64.1                | 28               |
| 1478                  | CAL ROJO          | 1340 (31)           | 61.0                | 27               |
| 1521                  | REDWING           | 980 (37)            | 59.7                | 28               |
| 1522                  | BLANCA ROYALE     | 1590 (24)           | 63.0                | 27               |
| 1523                  | BLANCA FUERTE     | 1710 (11)           | 64.5                | 29               |
| 1548                  | WB-CRISTALLO      | 1710 (11)           | 63.0                | 28               |
| 1650                  | WB-ROCKLAND       | 1370 (28)           | 62.5                | 26               |
| 1657                  | BLANCA GRANDE 515 | 1620 (21)           | 65.5                | 30               |
| 1667                  | NEW DIRKWIN       | 1630 (19)           | 60.0                | 27               |
| 1680                  | PATWIN 515        | 1150 (35)           | 61.9                | 22               |
| 1729                  | WB-PERLA          | 1410 (27)           | 63.1                | 28               |
| 1731                  | WB-PATRON         | 1710 (11)           | 62.0                | 29               |
| <u>ADVANCED LINES</u> |                   |                     |                     |                  |
| 1624                  | WB DA905-10       | 1780 (8)            | 63.2                | 27               |
| 1679                  | CLEAR WHITE 515   | 1600 (23)           | 62.5                | 29               |
| 1684                  | WWW CABR3509W     | 1620 (21)           | 63.6                | 29               |
| 1686                  | 08SB100           | 830 (38)            | 64.3                | 29               |
| 1688                  | 08SB0658-B        | 2010 (4)            | 62.0                | 30               |
| 1710                  | UC 1710           | 1800 (7)            | 62.3                | 27               |
| 1711                  | UC 1711           | 1710 (11)           | 63.0                | 28               |
| 1712                  | UC 1712           | 1210 (34)           | 61.6                | 28               |
| 1713                  | UC 1713           | 1730 (10)           | 61.2                | 26               |
| 1714                  | UC 1714           | 1360 (30)           | 63.8                | 30               |
| 1715                  | UC 1715           | 1500 (26)           | 60.2                | 27               |
| 1716                  | WINCAL 09196      | 1670 (16)           | 62.3                | 30               |
| 1723                  | ATOMO             | 2170 (1)            | 64.1                | 30               |
| 1724                  | 08SB0073          | 2030 (3)            | 62.6                | 29               |
| 1725                  | ATREVIDO          | 1370 (28)           | 61.7                | 29               |
| 1726                  | 08SB0738          | 1510 (25)           | 62.4                | 28               |
| 1727                  | 08SB0008-B        | 1770 (9)            | 61.8                | 30               |
| 1728                  | WB-JOAQUIN ORO    | 1040 (36)           | 63.1                | 28               |
| 1730                  | WB SJ907-229      | 2000 (5)            | 64.2                | 27               |
| 1732                  | WWW BR2308W       | 1320 (32)           | 63.4                | 28               |
| 1734                  | APB W9-3AL        | 1220 (33)           | 62.0                | 31               |
| 1737                  | APB NM-1          | 2140 (2)            | 62.3                | 29               |
| 1738                  | APB MC-1          | 1710 (11)           | 62.3                | 26               |
|                       | MEAN              | 1580                | 61.8                | 28               |
|                       | CV                | 26.4                | 1.8                 | 8.6              |
|                       | LSD (.05)         | 590                 | 1.8                 |                  |

Numbers in parentheses indicate relative rank in column.

## 2012 Davis Rainfed Common Wheat Trial

| Entry                 | Name              | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Days To               |          | Shatter | Stripe<br>Rust<br>5/4 | BYDV |
|-----------------------|-------------------|---------------------|---------------------|------------------|------------------|-----------------------|----------|---------|-----------------------|------|
|                       |                   |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Heading<br>From (3/1) | Maturity |         |                       |      |
| <b>CULTIVARS</b>      |                   |                     |                     |                  |                  |                       |          |         |                       |      |
| 20                    | ANZA              | 5070 (11)           | 63.4                | 36.9             | 39               | 48                    | 83       | 1.5     | 4.8                   | 1.3  |
| 788                   | EXPRESS           | 5340 (5)            | 62.0                | 39.6             | 40               | 42                    | 81       | 1.3     | 1.8                   | 3.0  |
| 1340                  | MIKA              | 3800 (35)           | 63.1                | 39.4             | 41               | 48                    | 82       | 1.3     | 4.3                   | 2.3  |
| 1424                  | JOAQUIN           | 3950 (33)           | 63.6                | 42.2             | 34               | 37                    | 79       | 1.0     | 5.5                   | 2.0  |
| 1478                  | CAL ROJO          | 4400 (28)           | 57.9                | 43.3             | 33               | 41                    | 75       | 1.0     | 1.0                   | 1.3  |
| 1521                  | REDWING           | 4780 (18)           | 57.0                | 42.1             | 33               | 45                    | 81       | 1.0     | 2.8                   | 1.3  |
| 1522                  | BLANCA ROYALE     | 4430 (27)           | 57.9                | 38.9             | 35               | 40                    | 80       | 1.3     | 1.0                   | 2.3  |
| 1523                  | BLANCA FUERTE     | 5120 (8)            | 61.6                | 43.7             | 35               | 46                    | 80       | 1.3     | 1.0                   | 1.5  |
| 1548                  | WB-CRISTALLO      | 4840 (16)           | 63.7                | 40.3             | 37               | 46                    | 80       | 1.5     | 2.0                   | 2.8  |
| 1650                  | WB-ROCKLAND       | 4910 (13)           | 63.5                | 42.3             | 35               | 41                    | 80       | 1.0     | 1.3                   | 2.5  |
| 1657                  | BLANCA GRANDE 515 | 3720 (36)           | 59.5                | 39.3             | 35               | 36                    | 78       | 1.0     | 1.0                   | 2.5  |
| 1667                  | NEW DIRKWIN       | 4080 (32)           | 56.7                | 32.5             | 44               | 54                    | 89       | 1.3     | 1.0                   | 2.5  |
| 1680                  | PATWIN 515        | 5080 (10)           | 61.6                | 36.6             | 34               | 45                    | 77       | 1.0     | 1.0                   | 2.3  |
| 1729                  | WB-PERLA          | 4870 (14)           | 61.9                | 39.3             | 36               | 35                    | 79       | 1.0     | 1.0                   | 2.5  |
| 1731                  | WB-PATRON         | 4630 (25)           | 60.6                | 39.4             | 39               | 45                    | 81       | 1.0     | 1.0                   | 2.5  |
| <b>ADVANCED LINES</b> |                   |                     |                     |                  |                  |                       |          |         |                       |      |
| 1624                  | WB DA905-10       | 4680 (22)           | 62.8                | 39.8             | 38               | 42                    | 78       | 1.0     | 3.8                   | 2.0  |
| 1679                  | CLEAR WHITE 515   | 4220 (31)           | 61.4                | 38.4             | 39               | 37                    | 75       | 1.0     | 1.0                   | 1.8  |
| 1684                  | WWW CABR3509W     | 4430 (26)           | 63.6                | 42.9             | 39               | 45                    | 79       | 1.5     | 3.8                   | 2.3  |
| 1686                  | 08SB100           | 4980 (12)           | 63.7                | 39.5             | 39               | 47                    | 83       | 1.3     | 1.0                   | 3.0  |
| 1688                  | 08SB0658-B        | 4220 (30)           | 63.6                | 42.7             | 36               | 45                    | 83       | 2.0     | 1.0                   | 1.5  |
| 1710                  | UC 1710           | 4670 (23)           | 63.1                | 41.8             | 35               | 49                    | 85       | 1.0     | 1.0                   | 1.8  |
| 1711                  | UC 1711           | 4770 (19)           | 63.8                | 46.6             | 31               | 47                    | 78       | 1.3     | 2.0                   | 1.8  |
| 1712                  | UC 1712           | 4870 (15)           | 62.6                | 47.9             | 33               | 44                    | 77       | 1.0     | 3.3                   | 1.5  |
| 1713                  | UC 1713           | 5440 (4)            | 62.2                | 37.1             | 37               | 46                    | 83       | 1.0     | 1.0                   | 1.0  |
| 1714                  | UC 1714           | 4230 (29)           | 62.4                | 38.9             | 35               | 47                    | 80       | 1.3     | 1.0                   | 1.0  |
| 1715                  | UC 1715           | 4650 (24)           | 60.7                | 42.7             | 38               | 42                    | 78       | 1.3     | 1.0                   | 2.3  |
| 1716                  | WINCAL 09196      | 4690 (21)           | 58.1                | 28.6             | 34               | 51                    | 84       | 1.0     | 1.3                   | 1.3  |
| 1723                  | ATOMO             | 6190 (1)            | 64.1                | 42.7             | 38               | 38                    | 81       | 1.5     | 1.3                   | 2.5  |
| 1724                  | 08SB0073          | 5520 (3)            | 62.1                | 43.9             | 36               | 44                    | 81       | 1.0     | 1.0                   | 2.0  |
| 1725                  | ATREVIDO          | 4700 (20)           | 62.8                | 47.4             | 36               | 48                    | 83       | 1.8     | 1.3                   | 2.0  |
| 1726                  | 08SB0738          | 5250 (6)            | 61.8                | 37.5             | 38               | 49                    | 84       | 1.5     | 1.0                   | 1.3  |
| 1727                  | 08SB0008-B        | 5090 (9)            | 62.0                | 45.8             | 36               | 46                    | 83       | 1.0     | 1.5                   | 2.0  |
| 1728                  | WB-JOAQUIN ORO    | 3920 (34)           | 63.1                | 43.1             | 33               | 32                    | 78       | 1.0     | 1.0                   | 3.0  |
| 1730                  | WB SJ907-229      | 5580 (2)            | 63.8                | 41.0             | 39               | 43                    | 81       | 1.0     | 1.0                   | 2.3  |
| 1732                  | WWW BR2308W       | 5150 (7)            | 63.4                | 43.5             | 37               | 47                    | 85       | 1.5     | 3.0                   | 2.8  |
| 1734                  | APB W9-3AL        | 4790 (17)           | 60.9                | 41.8             | 38               | 48                    | 83       | 1.3     | 2.0                   | 2.5  |
|                       | MEAN              | 4750                | 61.8                | 40.8             | 36               | 44                    | 81       | 1.2     | 1.8                   | 2.0  |
|                       | CV                | 14.3                | 2.0                 | 4.7              | 5                | 5.1                   | 3.1      | 33.2    | 34.3                  | 35.2 |
|                       | LSD (.05)         | 950                 | 2.5                 | 3.9              | 3                | 3.0                   | 3.0      | 0.6     | 0.9                   | 1.0  |

Rating scale for diseases (area of flag-1 leaf affected), and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

2012 Common Wheat Stripe Rust Summary

| Entry                 | Name             | Stripe Rust     |               |                     |                         |                         |                |               |  |
|-----------------------|------------------|-----------------|---------------|---------------------|-------------------------|-------------------------|----------------|---------------|--|
|                       |                  | Mean<br>(6 Loc) | Colusa<br>5/7 | UC<br>Davis<br>5/16 | UC<br>Davis (RF)<br>5/4 | Sac/SJ<br>Delta<br>5/11 | Fresno<br>5/21 | Kings<br>4/30 |  |
| <b>CULTIVARS</b>      |                  |                 |               |                     |                         |                         |                |               |  |
| 20                    | ANZA             | 4.7 (39)        | 3.8           | 5.0                 | 4.8                     | 4.8                     | 4.8            | 5.0           |  |
| 788                   | EXPRESS          | 1.8 (29)        | 3.3           | 1.5                 | 1.8                     | 2.3                     | 1.0            | 1.0           |  |
| 1340                  | MIKA             | 4.2 (38)        | 4.0           | 5.8                 | 4.3                     | 4.8                     | 4.3            | 1.8           |  |
| 1419                  | PATWIN*          | 1.0 (1)         | 1.0           | 1.0                 | -                       | -                       | -              | 1.0           |  |
| 1424                  | JOAQUIN          | 6.7 (40)        | 6.0           | 6.5                 | 5.5                     | 7.0                     | 7.5            | 7.5           |  |
| 1478                  | CAL ROJO         | 1.0 (1)         | -             | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1495                  | LASSIK*          | 1.0 (1)         | 1.0           | 1.0                 | -                       | -                       | -              | 1.0           |  |
| 1521                  | REDWING          | 3.3 (34)        | -             | 3.3                 | 2.8                     | 5.0                     | 1.8            | 3.5           |  |
| 1522                  | BLANCA ROYALE    | 1.0 (1)         | -             | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1523                  | BLANCA FUERTE    | 1.3 (25)        | -             | 1.0                 | 1.0                     | 2.5                     | 1.0            | 1.0           |  |
| 1548                  | WB-CRISTALLO     | 2.8 (33)        | 2.8           | 2.5                 | 2.0                     | 5.3                     | 2.0            | 2.0           |  |
| 1650                  | WB-ROCKLAND      | 1.1 (18)        | 1.3           | 1.0                 | 1.3                     | 1.0                     | 1.0            | 1.0           |  |
| 1657                  | BLANCA GRANDE 51 | 1.1 (13)        | -             | 1.3                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1667                  | NEW DIRKWIN      | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1680                  | PATWIN 515       | 1.1 (13)        | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.3            | 1.0           |  |
| 1729                  | WB-PERLA         | 1.2 (21)        | 1.0           | 1.0                 | 1.0                     | 1.5                     | 1.0            | 1.5           |  |
| 1731                  | WB-PATRON        | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| <b>ADVANCED LINES</b> |                  |                 |               |                     |                         |                         |                |               |  |
| 1624                  | WB DA905-10      | 3.9 (37)        | 4.3           | 5.8                 | 3.8                     | 4.3                     | 3.0            | 2.0           |  |
| 1679                  | CLEAR WHITE 515  | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1684                  | WWW CABR3509W    | 3.3 (36)        | 2.3           | 5.3                 | 3.8                     | 3.8                     | 2.0            | 2.8           |  |
| 1686                  | 08SB100          | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1688                  | 08SB0658-B       | 1.2 (24)        | 1.3           | 1.0                 | 1.0                     | 2.0                     | 1.0            | 1.0           |  |
| 1710                  | UC 1710          | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1711                  | UC 1711          | 1.8 (28)        | 1.8           | 2.8                 | 2.0                     | 2.0                     | 1.0            | 1.3           |  |
| 1712                  | UC 1712          | 2.7 (32)        | 1.5           | 3.5                 | 3.3                     | 4.0                     | 1.8            | 1.8           |  |
| 1713                  | UC 1713          | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1714                  | UC 1714          | 1.1 (13)        | 1.0           | 1.0                 | 1.0                     | 1.3                     | 1.0            | 1.0           |  |
| 1715                  | UC 1715          | 1.1 (13)        | 1.0           | 1.0                 | 1.0                     | 1.3                     | 1.0            | 1.0           |  |
| 1716                  | WINCAL 09196     | 1.6 (27)        | 1.5           | 1.0                 | 1.3                     | 3.5                     | 1.5            | 1.0           |  |
| 1723                  | ATOMO            | 1.9 (30)        | 1.0           | 2.3                 | 1.3                     | 3.8                     | 1.5            | 1.3           |  |
| 1724                  | 08SB0073         | 1.1 (20)        | 1.0           | 1.0                 | 1.0                     | 1.8                     | 1.0            | 1.0           |  |
| 1725                  | ATREVIDO         | 1.2 (23)        | 1.3           | 1.0                 | 1.3                     | 1.0                     | 1.5            | 1.0           |  |
| 1726                  | 08SB0738         | 1.0 (1)         | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1727                  | 08SB0008-B       | 2.1 (31)        | 1.8           | 2.3                 | 1.5                     | 3.8                     | 1.8            | 1.3           |  |
| 1728                  | WB-JOAQUIN ORO   | 1.0 (12)        | 1.0           | 1.3                 | 1.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1730                  | WB SJ907-229     | 1.1 (13)        | 1.0           | 1.0                 | 1.0                     | 1.0                     | 1.3            | 1.0           |  |
| 1732                  | WWW BR2308W      | 3.3 (35)        | 2.5           | 5.8                 | 3.0                     | 4.0                     | 2.5            | 2.0           |  |
| 1734                  | APB W9-3AL       | 1.2 (21)        | 1.0           | 1.0                 | 2.0                     | 1.0                     | 1.0            | 1.0           |  |
| 1737                  | APB NM-1         | 1.1 (18)        | -             | -                   | -                       | 1.3                     | 1.0            | 1.0           |  |
| 1738                  | APB MC-1         | 1.5 (26)        | -             | -                   | -                       | 2.5                     | 1.0            | 1.0           |  |
| MEAN                  |                  | 1.8             | 1.7           | 2.1                 | 1.8                     | 2.3                     | 1.6            | 1.5           |  |
| CV                    |                  | 34.8            | 37.5          | 32.0                | 34.3                    | 26.0                    | 45.4           | 37.5          |  |
| LSD (.05)             |                  | 0.4             | 0.9           | 0.9                 | 0.9                     | 0.8                     | 1.0            | 0.8           |  |

Rating scale for diseases (area of flag-1 leaf affected), lodging, shatter, blackpoint, and yellowberry: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

\*Data was taken from adjacent trials under the exact same conditions

2012 Common Wheat Grain Protein Summary (%)

| Entry                 | Name              | Overall<br>Mean<br>(6 loc) | Sacramento Valley |        |             |            | San Joaquin Valley |        |       |       | Imperial<br>Valley |
|-----------------------|-------------------|----------------------------|-------------------|--------|-------------|------------|--------------------|--------|-------|-------|--------------------|
|                       |                   |                            | Mean<br>(3 loc)   | Colusa | UC<br>Davis | Clarksburg | Mean<br>(3 loc)    | Fresno | Kings | Kern  |                    |
| <u>CULTIVARS</u>      |                   |                            |                   |        |             |            |                    |        |       |       |                    |
| 20                    | ANZA              | 10.74 (36)                 | 10.49 (29)        | 10.37  | 9.92        | 11.19      | 10.78 (36)         | 9.64   | 11.83 | 10.88 | 11.36 (35)         |
| 788                   | EXPRESS           | 12.27 (15)                 | 11.37 (14)        | 11.54  | 10.62       | 11.95      | 12.68 (12)         | 11.37  | 14.29 | 12.38 | 13.77 (7)          |
| 1340                  | MIKA              | 12.54 (9)                  | 11.87 (3)         | 12.14  | 11.38       | 12.08      | 12.84 (8)          | 11.33  | 14.19 | 13.01 | 13.66 (9)          |
| 1424                  | JOAQUIN           | 12.32 (13)                 | 11.55 (11)        | 11.26  | 11.10       | 12.29      | 12.81 (11)         | 11.82  | 14.39 | 12.21 | 13.17 (17)         |
| 1478                  | CAL ROJO          | 12.28 (14)                 | -                 | -      | -           | -          | 11.97 (26)         | 10.20  | 13.50 | 12.20 | 13.22 (15)         |
| 1521                  | REDWING           | 12.67 (6)                  | -                 | -      | -           | -          | 12.61 (13)         | 11.42  | 13.90 | 12.50 | 12.86 (24)         |
| 1522                  | BLANCA ROYALE     | 12.53 (12)                 | -                 | -      | -           | -          | 12.28 (18)         | 10.84  | 13.19 | 12.80 | 13.29 (14)         |
| 1523                  | BLANCA FUERTE     | 11.09 (34)                 | -                 | -      | -           | -          | 11.12 (35)         | 9.93   | 12.00 | 11.44 | 11.00 (37)         |
| 1548                  | WB-CRISTALLO      | 11.96 (19)                 | 11.14 (16)        | 11.04  | 10.10       | 12.28      | 12.41 (16)         | 11.45  | 13.52 | 12.25 | 13.09 (18)         |
| 1650                  | WB-ROCKLAND       | 13.10 (2)                  | 11.81 (5)         | 10.48  | 13.00       | 11.96      | 13.79 (1)          | 13.31  | 15.15 | 12.92 | 14.86 (1)          |
| 1657                  | BLANCA GRANDE 515 | 13.05 (3)                  | -                 | -      | -           | -          | 12.83 (10)         | 11.73  | 14.27 | 12.48 | 13.72 (8)          |
| 1667                  | NEW DIRKWIN       | 11.15 (33)                 | 10.29 (30)        | 10.98  | 9.71        | 10.17      | 11.82 (30)         | 10.45  | 12.96 | 12.04 | 11.71 (33)         |
| 1680                  | PATWIN 515        | 12.00 (18)                 | 11.59 (10)        | 11.92  | 10.14       | 12.72      | 12.08 (24)         | 10.99  | 13.02 | 12.23 | 12.98 (21)         |
| 1729                  | WB-PERLA          | 12.75 (5)                  | 12.06 (2)         | 11.76  | 12.20       | 12.23      | 13.13 (5)          | 12.41  | 14.59 | 12.39 | 13.66 (9)          |
| 1731                  | WB-PATRON         | 11.81 (23)                 | 10.98 (18)        | 11.16  | 9.56        | 12.22      | 12.23 (20)         | 11.20  | 12.96 | 12.52 | 13.03 (20)         |
| <u>ADVANCED LINES</u> |                   |                            |                   |        |             |            |                    |        |       |       |                    |
| 1624                  | WB DA905-10       | 11.23 (32)                 | 10.11 (31)        | 10.40  | 9.73        | 10.20      | 11.78 (31)         | 10.43  | 13.25 | 11.66 | 12.92 (23)         |
| 1679                  | CLEAR WHITE 515   | 12.54 (9)                  | 11.72 (7)         | 10.94  | 11.93       | 12.28      | 12.84 (8)          | 11.55  | 14.50 | 12.47 | 14.09 (4)          |
| 1684                  | WWW CABR3509W     | 10.66 (37)                 | 9.93 (33)         | 10.25  | 9.01        | 10.53      | 11.14 (34)         | 10.43  | 12.90 | 10.08 | 11.43 (34)         |
| 1686                  | 08SB100           | 12.11 (17)                 | 11.48 (12)        | 11.32  | 11.48       | 11.64      | 12.52 (15)         | 11.90  | 13.52 | 12.14 | 12.79 (26)         |
| 1688                  | 08SB0658-B        | 11.57 (28)                 | 10.59 (26)        | 9.83   | 9.82        | 12.13      | 12.04 (25)         | 11.11  | 12.75 | 12.27 | 13.09 (18)         |
| 1710                  | UC 1710           | 12.54 (9)                  | 11.62 (9)         | 11.62  | 10.82       | 12.41      | 13.04 (6)          | 12.23  | 14.11 | 12.78 | 13.84 (6)          |
| 1711                  | UC 1711           | 11.60 (27)                 | 10.95 (20)        | 11.04  | 11.01       | 10.81      | 11.64 (33)         | 10.24  | 13.73 | 10.94 | 13.41 (13)         |
| 1712                  | UC 1712           | 11.70 (25)                 | 10.87 (21)        | 10.52  | 10.78       | 11.32      | 12.10 (23)         | 11.10  | 13.02 | 12.17 | 12.98 (21)         |
| 1713                  | UC 1713           | 11.92 (20)                 | 11.02 (17)        | 10.63  | 10.27       | 12.17      | 12.56 (14)         | 11.68  | 13.59 | 12.40 | 12.71 (27)         |
| 1714                  | UC 1714           | 12.16 (16)                 | 11.71 (8)         | 12.22  | 11.44       | 11.47      | 12.39 (17)         | 11.28  | 13.65 | 12.23 | 12.81 (25)         |
| 1715                  | UC 1715           | 12.59 (8)                  | 11.39 (13)        | 11.11  | 10.62       | 12.43      | 13.33 (3)          | 12.68  | 14.42 | 12.88 | 14.00 (5)          |
| 1716                  | WINCAL 09196      | 11.31 (31)                 | 10.59 (26)        | 9.89   | 9.08        | 12.80      | 11.83 (29)         | 10.89  | 12.90 | 11.70 | 11.91 (32)         |
| 1723                  | ATOMO             | 11.51 (29)                 | 10.57 (28)        | 9.20   | 10.29       | 12.21      | 12.20 (21)         | 10.89  | 13.29 | 12.42 | 12.30 (31)         |
| 1724                  | 08SB0073          | 11.79 (24)                 | 11.32 (15)        | 11.17  | 11.33       | 11.47      | 11.97 (26)         | 10.46  | 13.37 | 12.08 | 12.65 (28)         |
| 1725                  | ATREVIDO          | 11.51 (29)                 | 10.80 (23)        | 11.04  | 9.79        | 11.58      | 11.90 (28)         | 10.40  | 13.47 | 11.83 | 12.44 (30)         |
| 1726                  | 08SB0738          | 11.85 (21)                 | 10.97 (19)        | 10.82  | 9.86        | 12.24      | 12.20 (21)         | 10.46  | 13.77 | 12.37 | 13.45 (12)         |
| 1727                  | 08SB0008-B        | 11.70 (25)                 | 10.85 (22)        | 11.51  | 10.25       | 10.79      | 12.26 (19)         | 11.51  | 13.11 | 12.16 | 12.56 (29)         |
| 1728                  | WB JOAQUIN ORO    | 13.13 (1)                  | 12.70 (1)         | 13.38  | 12.02       | 12.70      | 13.38 (2)          | 12.80  | 15.11 | 12.22 | 13.66 (9)          |
| 1730                  | WB SJ907-229      | 12.79 (4)                  | 11.85 (4)         | 11.79  | 11.62       | 12.14      | 13.15 (4)          | 12.50  | 14.51 | 12.45 | 14.54 (2)          |
| 1732                  | WWW BR2308W       | 10.43 (38)                 | 9.94 (32)         | 10.04  | 8.70        | 11.07      | 10.78 (36)         | 10.11  | 11.87 | 10.35 | 10.90 (38)         |
| 1734                  | APB W9-3AL        | 12.62 (7)                  | 11.80 (6)         | 12.02  | 10.28       | 13.11      | 12.89 (7)          | 12.01  | 14.13 | 12.52 | 14.27 (3)          |
| 1737                  | APB NM-1          | 10.79 (35)                 | 10.66 (25)        | -      | 10.66       | -          | 10.70 (38)         | 9.62   | 12.02 | 10.46 | 11.21 (36)         |
| 1738                  | APB MC-1          | 11.83 (22)                 | 10.69 (24)        | -      | 10.69       | -          | 11.75 (32)         | 10.84  | 12.69 | 11.73 | 13.20 (16)         |

Grain Protein % expressed at 12% moisture

Numbers in parentheses indicate relative rank in column.

2012 Kings Common Wheat Trial, Quality Evaluation

| Entry                 | Name              | Wheat |      |       |      |      |                           |      | Flour |       |       |      | Farinograph |      |      |      |       | Bread |        |      |      |       |
|-----------------------|-------------------|-------|------|-------|------|------|---------------------------|------|-------|-------|-------|------|-------------|------|------|------|-------|-------|--------|------|------|-------|
|                       |                   | Pro   | Ash  | Hard  | Test | 1000 | Kernel Size Dist. (200 g) |      |       | Yield | Pro   | Ash  | Fall        | Wet  | Absp | Arr  | Mix   | MT    | M.T.I. | Vol  | Text | Score |
|                       |                   |       |      | (NIR) | Wt   | Kwt  | 7W                        | 10W  | 12W   |       |       | No.  | Glut.       |      |      | Pk   |       |       |        |      |      |       |
| <b>CULTIVARS</b>      |                   |       |      |       |      |      |                           |      |       |       |       |      |             |      |      |      |       |       |        |      |      |       |
| 20                    | ANZA              | 11.83 | 1.47 | 71    | 63.5 | 32.8 | 170.8                     | 29.0 | 0.3   | 73.5  | 9.57  | 1.47 | 400         | 25.1 | 62.0 | 2.00 | 4.00  | 3.75  | 100    | 750  | 6    | 6     |
| 788                   | EXPRESS           | 14.29 | 1.57 | 76    | 63.2 | 38.1 | 177.3                     | 22.5 | 0.1   | 72.4  | 9.59  | 1.57 | 438         | 34.3 | 67.8 | 4.00 | 7.00  | 7.00  | 50     | 975  | 9    | 10    |
| 1340                  | MIKA              | 14.19 | 1.62 | 73    | 60.4 | 31.9 | 136.9                     | 61.7 | 0.6   | 73.5  | 13.17 | 1.62 | 471         | 33.6 | 63.2 | 5.50 | 9.50  | 21.00 | 20     | 1025 | 9    | 10    |
| 1424                  | JOAQUIN           | 14.39 | 1.54 | 66    | 64.0 | 44.1 | 185.1                     | 14.5 | 0.1   | 77.9  | 12.74 | 1.54 | 464         | 32.9 | 65.8 | 4.00 | 8.50  | 6.50  | 10     | 1025 | 9    | 10    |
| 1478                  | CAL ROJO          | 13.50 | 1.73 | 60    | 60.3 | 38.0 | 154.7                     | 43.7 | 0.7   | 73.8  | 12.49 | 1.73 | 516         | 32.2 | 63.0 | 5.00 | 10.50 | 22.50 | 20     | 1050 | 9    | 10    |
| 1521                  | REDWING           | 13.90 | 1.87 | 79    | 57.8 | 34.1 | 161.6                     | 37.4 | 0.5   | 70.8  | 12.14 | 1.87 | 509         | 32.8 | 66.4 | 3.50 | 11.50 | 33.00 | -      | 965  | 9    | 10    |
| 1522                  | BLANCA ROYALE     | 13.19 | 1.58 | 71    | 63.3 | 36.1 | 164.4                     | 34.4 | 0.4   | 73.1  | 11.07 | 1.58 | 486         | 31.3 | 61.2 | 3.25 | 7.00  | 10.25 | 40     | 940  | 9    | 10    |
| 1523                  | BLANCA FUERTE     | 12.00 | 1.39 | 71    | 65.0 | 40.9 | 185.3                     | 14.8 | 0.2   | 74.3  | 10.55 | 1.39 | 457         | 27.8 | 61.2 | 2.50 | 8.50  | 13.25 | 30     | 940  | 9    | 9     |
| 1548                  | WB-CRISTALLO      | 13.52 | 1.53 | 69    | 63.8 | 38.6 | 182.0                     | 18.2 | 0.1   | 73.1  | 12.49 | 1.53 | 455         | 33.2 | 65.4 | 4.00 | 8.00  | 17.00 | 20     | 960  | 9    | 10    |
| 1650                  | WB-ROCKLAND       | 15.15 | 1.65 | 69    | 63.6 | 40.0 | 184.9                     | 14.9 | 0.2   | 72.5  | 13.90 | 1.65 | 485         | 40.9 | 66.0 | 3.50 | 8.00  | 13.00 | 30     | 985  | 9    | 10    |
| 1657                  | BLANCA GRANDE 515 | 14.27 | 1.52 | 62    | 65.0 | 43.1 | 188.3                     | 12.2 | 0.1   | 73.6  | 13.08 | 1.52 | 421         | 34.3 | 69.0 | 6.50 | 10.50 | 6.50  | 40     | 1020 | 9    | 10    |
| 1667                  | NEW DIRKWIN       | 12.96 | 1.81 | 39    | 58.8 | 35.0 | 171.2                     | 28.1 | 0.3   | 67.7  | 11.64 | 1.81 | 420         | 29.4 | 57.6 | 1.50 | 2.50  | 3.50  | 80     | 780  | 6    | 6     |
| 1680                  | PATWIN 515        | 13.02 | 1.72 | 80    | 61.7 | 33.1 | 157.1                     | 42.4 | 0.4   | 73.3  | 11.69 | 1.72 | 504         | 33.5 | 63.0 | 2.75 | 6.00  | 9.75  | 50     | 925  | 9    | 9     |
| 1729                  | WB-PERLA          | 14.59 | 1.53 | 73    | 64.0 | 39.9 | 184.4                     | 15.5 | -     | 74.1  | 12.96 | 1.53 | 487         | 38.5 | 73.0 | 6.00 | 17.00 | 17.50 | 40     | 965  | 9    | 10    |
| 1731                  | WB-PATRON         | 12.96 | 1.46 | 66    | 63.4 | 43.2 | 189.2                     | 10.4 | 0.2   | 74.8  | 11.48 | 1.46 | 464         | 30.9 | 64.0 | 2.00 | 3.50  | 6.00  | 50     | 780  | 6    | 6     |
| <b>ADVANCED LINES</b> |                   |       |      |       |      |      |                           |      |       |       |       |      |             |      |      |      |       |       |        |      |      |       |
| 1624                  | WB DA905-10       | 13.25 | 1.52 | 69    | 63.3 | 41.1 | 181.4                     | 18.0 | 0.2   | 74.9  | 12.23 | 1.52 | 462         | 31.5 | 65.2 | 4.50 | 9.00  | 11.50 | 20     | 975  | 9    | 10    |
| 1679                  | CLEAR WHITE 515   | 14.50 | 1.72 | 67    | 60.8 | 35.5 | 181.3                     | 18.9 | 0.5   | 74.3  | 13.01 | 1.72 | 454         | 37.3 | 62.0 | 3.50 | 7.00  | 20.00 | 30     | 1000 | 9    | 10    |
| 1684                  | WWW CABR3509W     | 12.90 | 1.62 | 71    | 63.4 | 42.4 | 181.5                     | 18.1 | 0.3   | 74.1  | 11.55 | 1.62 | 451         | 29.4 | 62.4 | 2.00 | 3.00  | 3.50  | 100    | 790  | 6    | 6     |
| 1686                  | 08SB100           | 13.52 | 1.67 | 80    | 62.6 | 35.3 | 157.9                     | 40.6 | 0.9   | 71.8  | 12.13 | 1.67 | 385         | 30.3 | 65.2 | 7.50 | 16.50 | 14.00 | 20     | 975  | 8    | 10    |
| 1688                  | 08SB0658-B        | 12.75 | 1.49 | 74    | 63.3 | 37.6 | 172.6                     | 27.4 | 0.6   | 73.4  | 10.99 | 1.49 | 485         | 31.0 | 63.2 | 4.00 | 10.00 | 14.00 | 30     | 920  | 9    | 9     |
| 1710                  | UC 1710           | 14.11 | 1.64 | 71    | 62.5 | 34.8 | 175.9                     | 24.0 | 0.4   | 71.2  | 13.00 | 1.64 | 437         | 34.2 | 64.6 | 5.00 | 8.50  | 8.50  | 40     | 975  | 9    | 10    |
| 1711                  | UC 1711           | 13.73 | 1.57 | 57    | 63.8 | 48.0 | 190.7                     | 9.1  | -     | 74.8  | 11.89 | 1.57 | 433         | 33.5 | 61.2 | 3.50 | 6.50  | 9.00  | 40     | 940  | 9    | 10    |
| 1712                  | UC 1712           | 13.02 | 1.53 | 74    | 61.8 | 43.1 | 171.4                     | 27.7 | 0.5   | 71.1  | 11.52 | 1.53 | 423         | 32.4 | 64.4 | 5.50 | 12.00 | 11.50 | 40     | 990  | 9    | 10    |
| 1713                  | UC 1713           | 13.59 | 1.56 | 66    | 62.9 | 38.3 | 175.6                     | 24.2 | 0.1   | 73.4  | 11.99 | 1.56 | 417         | 34.5 | 65.0 | 3.00 | 8.50  | 13.00 | 20     | 890  | 8    | 8     |
| 1714                  | UC 1714           | 13.65 | 1.64 | 76    | 63.0 | 36.7 | 177.8                     | 22.3 | 0.1   | 74.9  | 12.15 | 1.64 | 377         | 34.6 | 64.6 | 3.50 | 5.50  | 9.50  | 50     | 940  | 9    | 9     |
| 1715                  | UC 1715           | 14.42 | 1.77 | 79    | 60.2 | 34.0 | 175.3                     | 24.0 | 0.3   | 73.4  | 12.96 | 1.77 | 510         | 37.1 | 67.8 | 6.00 | 12.50 | 13.00 | 20     | 950  | 9    | 10    |
| 1716                  | WINCAL 09196      | 12.90 | 1.75 | 79    | 62.3 | 33.2 | 145.1                     | 53.9 | 0.4   | 70.0  | 11.53 | 1.75 | 446         | 31.6 | 66.2 | 4.00 | 17.50 | 39.00 | -      | 950  | 9    | 10    |
| 1723                  | ATOMO             | 13.29 | 1.61 | 79    | 65.0 | 40.4 | 187.2                     | 13.4 | 0.1   | 71.7  | 11.85 | 1.61 | 486         | 30.3 | 65.5 | 2.00 | 9.00  | 24.50 | 10     | 940  | 9    | 10    |
| 1724                  | 08SB0073          | 13.37 | 1.71 | 77    | 60.2 | 38.0 | 165.6                     | 33.6 | 0.9   | 73.8  | 11.85 | 1.71 | 469         | 31.2 | 63.0 | 4.50 | 11.50 | 11.50 | 30     | 940  | 9    | 9     |
| 1725                  | ATREVIDO          | 13.47 | 1.70 | 75    | 60.5 | 35.9 | 172.6                     | 26.9 | 0.4   | 71.5  | 11.93 | 1.70 | 485         | 31.6 | 62.4 | 4.00 | 8.50  | 12.50 | 30     | 940  | 9    | 9     |
| 1726                  | 08SB0738          | 13.77 | 1.63 | 78    | 62.5 | 37.3 | 178.0                     | 22.4 | 0.3   | 72.8  | 12.50 | 1.63 | 456         | 32.9 | 65.0 | 6.00 | 10.50 | 11.00 | 30     | 960  | 9    | 10    |
| 1727                  | 08SB0008-B        | 13.11 | 1.56 | 74    | 61.5 | 42.0 | 186.0                     | 14.2 | 0.2   | 71.4  | 11.86 | 1.56 | 448         | 32.5 | 67.8 | 4.50 | 7.00  | 7.50  | 40     | 900  | 9    | 9     |
| 1728                  | WB-JOAQUIN ORO    | 15.11 | 1.49 | 64    | 63.5 | 43.0 | 190.1                     | 9.9  | 0.1   | 75.5  | 14.12 | 1.49 | 463         | 40.2 | 71.0 | 5.00 | 11.00 | 14.50 | 40     | 1025 | 9    | 10    |
| 1730                  | WB SJ907-229      | 14.51 | 1.62 | 73    | 63.9 | 37.9 | 175.3                     | 24.1 | 0.2   | 73.9  | 13.02 | 1.62 | 488         | 33.7 | 68.4 | 7.25 | 20.00 | 19.75 | 30     | 1025 | 9    | 10    |
| 1732                  | WWW BR2308W       | 11.87 | 1.53 | 75    | 62.7 | 37.5 | 173.7                     | 26.3 | 0.5   | 71.9  | 10.15 | 1.53 | 455         | 27.3 | 63.0 | 2.50 | 4.00  | 2.75  | 100    | 790  | 6    | 6     |
| 1734                  | APB W9-3AL        | 14.13 | 1.62 | 78    | 61.8 | 38.7 | 183.1                     | 16.6 | 0.1   | 72.7  | 12.79 | 1.62 | 492         | 37.8 | 67.8 | 6.50 | 11.00 | 9.50  | 40     | 935  | 9    | 9     |
| 1737                  | APB NM-1          | 12.02 | 1.72 | 67    | 62.7 | 42.9 | 183.0                     | 16.5 | 0.2   | 71.4  | 11.09 | 1.72 | 425         | 25.7 | 61.2 | 2.25 | 5.00  | 10.75 | 20     | 965  | 9    | 10    |
| 1738                  | APB MC-1          | 12.69 | 1.79 | 57    | 61.5 | 41.6 | 182.8                     | 17.4 | 0.3   | 72.4  | 11.31 | 1.79 | 412         | 27.8 | 58.4 | 3.00 | 11.50 | 24.00 | 20     | 975  | 9    | 10    |

Analysis provided by the California Wheat Commission Quality Laboratory, Woodland, CA

Pro = Protein% (12% moisture basis); Hard = NIR Hardness; Test Wt = Test weight (lb/bu); 1000 Kwt = Thousand kernel weight (grams);

Yield = Flour yield (%); Fall No = Falling number (seconds); Wet Glut = Wet gluten (%; 14% moisture basis); Absp = Absorption (%);

Arr = Arrival (min); Mix Pk = Mixing peak (min); MT = Stability of farinograph curve, departure - arrival (min); M.T.I. = Mixing tolerance index (B.U.);

Vol = Bread volume (c.c.); Text = Grain and texture (3-10 = Satisfactory, 1-2 = Unsatisfactory);

Score: 9-10 = Excellent, 7-8 = Satisfactory, 5-6 = Satisfactory to questionable, 3-4 = Questionable, 1-2 = Unsatisfactory

2012 UC Davis Common Wheat Trial, Quality Evaluation

| Entry                 | Name            | Wheat |      |            |         |          |                           |      |     | Flour |       |      |          | Farinograph |      |       |        |       | Bread  |      |      |       |
|-----------------------|-----------------|-------|------|------------|---------|----------|---------------------------|------|-----|-------|-------|------|----------|-------------|------|-------|--------|-------|--------|------|------|-------|
|                       |                 | Pro   | Ash  | Hard (NIR) | Test Wt | 1000 Kwt | Kernel Size Dist. (200 g) |      |     | Yield | Pro   | Ash  | Fall No. | Wet Glut.   | Absp | Arr   | Mix Pk | MT    | M.T.I. | Vol  | Text | Score |
|                       |                 |       |      |            |         |          | 7W                        | 10W  | 12W |       |       |      |          |             |      |       |        |       |        |      |      |       |
| <u>CULTIVARS</u>      |                 |       |      |            |         |          |                           |      |     |       |       |      |          |             |      |       |        |       |        |      |      |       |
| 20                    | ANZA            | 9.92  | 1.34 | 65         | 64.2    | 36.8     | 182.8                     | 17.4 | 0.1 | 74.9  | 8.73  | 1.34 | 456      | 21.3        | 61.2 | 1.75  | 4.00   | 4.75  | 60     | 805  | 6    | 6     |
| 788                   | EXPRESS         | 10.62 | 1.40 | 81         | 63.1    | 38.7     | 179.1                     | 20.6 | 0.2 | 70.4  | 9.58  | 1.40 | 437      | 22.9        | 65.0 | 2.75  | 8.00   | 13.25 | 30     | 925  | 9    | 9     |
| 1340                  | MIKA            | 11.38 | 1.39 | 71         | 63.3    | 36.4     | 172.0                     | 27.6 | 0.2 | 71.2  | 10.35 | 1.39 | 419      | 26.0        | 61.4 | 4.25  | 11.50  | 18.25 | 30     | 900  | 9    | 9     |
| 1424                  | JOAQUIN         | 11.10 | 1.39 | 75         | 63.7    | 39.2     | 180.3                     | 19.7 | 0.3 | 74.0  | 10.21 | 1.39 | 443      | 27.2        | 63.4 | 3.50  | 10.00  | 27.50 | 20     | 920  | 9    | 9     |
| 1548                  | WB-CRISTALLO    | 10.10 | 1.39 | 74         | 64.1    | 40.0     | 186.0                     | 14.5 | 0.2 | 70.9  | 9.11  | 1.39 | 407      | 23.6        | 63.8 | 2.50  | 10.00  | 17.50 | 20     | 920  | 9    | 9     |
| 1650                  | WB-ROCKLAND     | 13.00 | 1.57 | 69         | 63.9    | 40.3     | 184.9                     | 15.1 | 0.2 | 70.0  | 11.44 | 1.57 | 420      | 31.8        | 65.8 | 3.50  | 8.50   | 28.50 | 20     | 1000 | 9    | 10    |
| 1667                  | NEW DIRKWIN     | 9.71  | 1.49 | 30         | 59.4    | 37.5     | 187.6                     | 12.5 | 0.2 | 65.5  | 8.28  | 1.49 | 322      | 22.1        | 55.6 | 1.00  | 1.25   | 6.00  | 80     | 795  | 6    | 6     |
| 1680                  | PATWIN 515      | 10.14 | 1.47 | 83         | 62.7    | 36.4     | 175.8                     | 23.7 | 0.1 | 64.9  | 9.14  | 1.47 | 425      | 23.2        | 61.2 | 1.00  | 1.75   | 7.50  | 40     | 830  | 7    | 6     |
| 1729                  | WB-PERLA        | 12.20 | 1.55 | 75         | 62.6    | 39.2     | 171.8                     | 27.2 | 0.2 | 70.8  | 11.06 | 1.55 | 458      | 29.2        | 72.0 | 9.00  | 19.50  | 22.00 | 10     | 985  | 9    | 10    |
| 1731                  | WB-PATRON       | 9.56  | 1.54 | 71         | 63.4    | 42.9     | 185.0                     | 14.9 | 0.1 | 69.7  | 7.97  | 1.54 | 392      | 22.8        | 62.6 | 1.50  | 4.50   | 9.50  | 30     | 840  | 7    | 7     |
| <u>ADVANCED LINES</u> |                 |       |      |            |         |          |                           |      |     |       |       |      |          |             |      |       |        |       |        |      |      |       |
| 1624                  | WB DA905-10     | 9.73  | 1.41 | 78         | 63.1    | 35.8     | 177.3                     | 22.1 | 0.2 | 68.8  | 9.09  | 1.41 | 398      | 20.8        | 62.8 | 1.75  | 7.00   | 37.25 | 10     | 830  | 7    | 7     |
| 1679                  | CLEAR WHITE 515 | 11.93 | 1.58 | 64         | 62.7    | 37.2     | 180.1                     | 19.5 | 0.2 | 70.8  | 10.85 | 1.58 | 426      | 27.0        | 58.6 | 2.00  | 10.50  | 38+   | 10     | 860  | 7    | 6     |
| 1684                  | WWW CABR3509W   | 9.01  | 1.35 | 70         | 64.3    | 40.7     | 184.5                     | 15.3 | 0.2 | 69.6  | 8.00  | 1.35 | 401      | 21.3        | 61.6 | 1.50  | 3.50   | 7.50  | 20     | 650  | 5    | 5     |
| 1686                  | 08SB100         | 11.48 | 1.45 | 81         | 63.6    | 40.0     | 176.9                     | 23.3 | 0.2 | 72.5  | 10.08 | 1.45 | 407      | 26.7        | 65.2 | 5.50  | 13.50  | 19.50 | 30     | 900  | 9    | 9     |
| 1688                  | 08SB0658-B      | 9.82  | 1.35 | 74         | 64.0    | 41.4     | 182.5                     | 17.1 | 0.2 | 70.4  | 8.64  | 1.35 | 425      | 25.8        | 62.4 | 1.25  | 2.00   | 11.75 | 40     | 780  | 6    | 6     |
| 1710                  | UC 1710         | 10.82 | 1.58 | 77         | 63.2    | 38.5     | 185.7                     | 13.9 | 0.1 | 71.3  | 9.91  | 1.58 | 433      | 28.9        | 62.8 | 2.25  | 7.00   | 21.25 | 10     | 865  | 7    | 7     |
| 1711                  | UC 1711         | 11.01 | 1.42 | 60         | 64.0    | 42.8     | 188.2                     | 11.6 | 0.1 | 70.0  | 9.71  | 1.42 | 456      | 25.9        | 60.0 | 2.00  | 9.50   | 17.50 | 40     | 900  | 9    | 9     |
| 1712                  | UC 1712         | 10.78 | 1.35 | 72         | 63.3    | 49.8     | 192.1                     | 8.5  | 0.1 | 68.9  | 9.17  | 1.35 | 408      | 24.4        | 62.8 | 2.50  | 10.00  | 37.5+ | 10     | 825  | 7    | 6     |
| 1713                  | UC 1713         | 10.27 | 1.39 | 70         | 63.4    | 38.3     | 186.4                     | 13.2 | -   | 71.0  | 8.71  | 1.39 | 383      | 24.1        | 63.0 | 1.75  | 6.50   | 11.25 | 30     | 860  | 7    | 7     |
| 1714                  | UC 1714         | 11.44 | 1.36 | 64         | 62.9    | 38.2     | 182.0                     | 17.7 | 0.1 | 73.9  | 10.13 | 1.36 | 356      | 27.5        | 62.2 | 2.25  | 5.50   | 17.75 | 40     | 880  | 7    | 8     |
| 1715                  | UC 1715         | 10.62 | 1.46 | 78         | 61.5    | 39.4     | 186.8                     | 13.7 | 0.1 | 68.8  | 9.53  | 1.46 | 450      | 22.5        | 62.2 | 1.75  | 5.50   | 20.25 | 20     | 870  | 7    | 8     |
| 1716                  | WINCAL 09196    | 9.08  | 1.42 | 84         | 64.0    | 34.9     | 169.0                     | 30.2 | 0.3 | 67.0  | 8.15  | 1.42 | 459      | 23.2        | 66.8 | 1.50  | 5.00   | 13.50 | 40     | 720  | 6    | 6     |
| 1723                  | ATOMO           | 10.29 | 1.41 | 86         | 64.7    | 40.9     | 186.1                     | 13.8 | -   | 70.0  | 8.84  | 1.41 | 486      | 26.5        | 65.4 | 1.25  | 2.50   | 30.75 | 30     | 780  | 6    | 6     |
| 1724                  | 08SB0073        | 11.33 | 1.54 | 76         | 62.3    | 41.7     | 186.2                     | 13.8 | 0.2 | 71.3  | 10.29 | 1.54 | 438      | 26.8        | 63.6 | 2.50  | 9.00   | 21.00 | 30     | 830  | 6    | 6     |
| 1725                  | ATREVIDO        | 9.79  | 1.67 | 72         | 64.1    | 46.9     | 194.9                     | 5.5  | 0.1 | 69.7  | 8.39  | 1.67 | 416      | 21.5        | 62.4 | 1.25  | 2.00   | 21.25 | 20     | 680  | 5    | 5     |
| 1726                  | 08SB0738        | 9.86  | 1.41 | 83         | 63.6    | 38.4     | 188.5                     | 11.2 | 0.2 | 68.1  | 8.26  | 1.41 | 504      | 20.5        | 65.6 | 1.50  | 2.00   | 15.00 | 10     | 740  | 6    | 6     |
| 1727                  | 08SB0008-B      | 10.25 | 1.42 | 74         | 63.1    | 43.4     | 189.2                     | 11.0 | 0.1 | 69.7  | 8.66  | 1.42 | 354      | 25.1        | 66.0 | 4.00  | 10.00  | 10.50 | 40     | 840  | 7    | 7     |
| 1728                  | WB-JOAQUIN ORO  | 12.02 | 1.51 | 78         | 63.8    | 38.9     | 179.5                     | 20.7 | 0.1 | 72.3  | 10.83 | 1.51 | 418      | 26.4        | 65.2 | 15.50 | 30.00  | 24.5+ | 10     | 950  | 9    | 10    |
| 1730                  | WB SJ907-229    | 11.62 | 1.63 | 80         | 64.0    | 37.7     | 177.1                     | 22.8 | 0.2 | 70.0  | 10.21 | 1.63 | 429      | 27.1        | 66.6 | 3.50  | 13.00  | 31.50 | 13     | 940  | 9    | 10    |
| 1732                  | WWW BR2308W     | 8.70  | 1.43 | 71         | 63.6    | 40.0     | 185.7                     | 14.9 | 0.1 | 70.0  | 7.25  | 1.43 | 351      | 17.5        | 62.6 | 1.25  | 3.50   | 6.25  | 40     | 650  | 5    | 5     |
| 1734                  | APB W9-3AL      | 10.28 | 1.54 | 81         | 62.4    | 41.4     | 190.4                     | 9.3  | 0.1 | 69.3  | 8.86  | 1.54 | 409      | 24.4        | 66.0 | 2.00  | 10.00  | 16.00 | 20     | 850  | 9    | 7     |
| 1737                  | APB NM-1        | 10.66 | 1.57 | 56         | 60.8    | 42.1     | 181.5                     | 17.7 | 0.3 | 67.3  | 8.97  | 1.57 | 436      | 22.1        | 56.2 | 1.50  | 9.00   | 38.5+ | 20     | 760  | 6    | 6     |
| 1738                  | APB MC-1        | 10.69 | 1.47 | 62         | 62.7    | 43.8     | 180.1                     | 20.1 | 0.1 | 69.3  | 8.43  | 1.47 | 358      | 25.3        | 61.0 | 2.00  | 5.00   | 5.50  | 60     | 885  | 7    | 7     |

Analysis provided by the California Wheat Commission Quality Laboratory, Woodland, CA

Pro = Protein% (12% moisture basis); Hard = NIR Hardness; Test Wt = Test weight (lb/bu); 1000 Kwt = Thousand kernel weight (grams);

Yield = Flour yield (%); Fall No = Falling number (seconds); Wet Glut = Wet gluten (% , 14% moisture basis); Absp = Absorption (%);

Arr = Arrival (min); Mix Pk = Mixing peak (min); MT = Stability of farinograph curve, departure - arrival (min); M.T.I. = Mixing tolerance index (B.U.);

Vol = Bread volume (c.c.); Text = Grain and texture (3-10 = Satisfactory, 1-2 = Unsatisfactory);

Score: 9-10 = Excellent, 7-8 = Satisfactory, 5-6 = Satisfactory to questionable, 3-4 = Questionable, 1-2 = Unsatisfactory

2012 Imperial Common Wheat Trial, Quality Evaluation

| Entry                 | Name              | Wheat |      |       |      |      |                           |      | Flour |       |       |      | Farinograph |      |      |      |       | Bread |        |      |      |       |
|-----------------------|-------------------|-------|------|-------|------|------|---------------------------|------|-------|-------|-------|------|-------------|------|------|------|-------|-------|--------|------|------|-------|
|                       |                   | Pro   | Ash  | Hard  | Test | 1000 | Kernel Size Dist. (200 g) |      |       | Yield | Pro   | Ash  | Fall        | Wet  | Absp | Arr  | Mix   | MT    | M.T.I. | Vol  | Text | Score |
|                       |                   |       |      | (NIR) | Wt   | Kwt  | 7W                        | 10W  | 12W   |       |       | No.  | Glut.       |      |      | Min  | Peak  |       |        |      |      |       |
| <b>CULTIVARS</b>      |                   |       |      |       |      |      |                           |      |       |       |       |      |             |      |      |      |       |       |        |      |      |       |
| 20                    | ANZA              | 11.36 | 1.48 | 73    | 63.5 | 31.9 | 144.0                     | 52.4 | 2.2   | 75.3  | 9.85  | 1.48 | 372         | 24.7 | 60.6 | 1.50 | 2.25  | 2.50  | 100    | 780  | 6    | 6     |
| 788                   | EXPRESS           | 13.77 | 1.64 | 77    | 63.6 | 36.1 | 165.1                     | 33.6 | 1.0   | 74.5  | 12.58 | 1.64 | 495         | 32.3 | 66.2 | 3.50 | 6.00  | 7.75  | 60     | 980  | 9    | 9     |
| 1340                  | MIKA              | 13.66 | 1.66 | 75    | 62.6 | 29.0 | 117.4                     | 78.8 | 2.5   | 73.8  | 12.59 | 1.66 | 406         | 32.5 | 61.0 | 5.00 | 9.00  | 22.00 | 20     | 975  | 9    | 10    |
| 1424                  | JOAQUIN           | 13.17 | 1.55 | 74    | 64.1 | 38.8 | 169.1                     | 30.0 | 1.0   | 76.0  | 12.19 | 1.55 | 440         | 32.3 | 63.4 | 3.00 | 8.00  | 15.00 | 10     | 965  | 9    | 10    |
| 1478                  | CAL ROJO          | 13.22 | 1.65 | 65    | 60.4 | 33.4 | 129.4                     | 66.7 | 3.3   | 72.2  | 11.78 | 1.65 | 485         | 32.4 | 61.0 | 4.00 | 9.50  | 17.00 | 20     | 965  | 9    | 10    |
| 1521                  | REDWING           | 12.86 | 1.67 | 83    | 60.6 | 34.2 | 152.0                     | 44.2 | 3.2   | 70.4  | 11.70 | 1.67 | 460         | 32.1 | 63.0 | 3.00 | 8.00  | 25.00 | 10     | 950  | 9    | 10    |
| 1522                  | BLANCA ROYALE     | 13.29 | 1.65 | 75    | 62.8 | 35.5 | 151.6                     | 46.7 | 1.7   | 71.6  | 11.81 | 1.65 | 490         | 29.5 | 60.4 | 3.00 | 7.50  | 23.00 | 20     | 965  | 9    | 10    |
| 1523                  | BLANCA FUERTE     | 11.00 | 1.56 | 76    | 64.0 | 34.5 | 158.2                     | 40.0 | 2.1   | 73.5  | 10.01 | 1.56 | 436         | 24.9 | 59.6 | 1.25 | 7.50  | 16.75 | 10     | 900  | 9    | 9     |
| 1548                  | WB-CRISTALLO      | 13.09 | 1.62 | 77    | 62.7 | 33.9 | 154.4                     | 44.3 | 1.2   | 73.0  | 12.05 | 1.62 | 447         | 31.3 | 61.6 | 2.50 | 5.00  | 10.50 | 40     | 960  | 9    | 10    |
| 1650                  | WB-ROCKLAND       | 14.86 | 1.49 | 76    | 63.6 | 37.7 | 166.6                     | 32.4 | 1.2   | 71.8  | 13.67 | 1.49 | 387         | 35.1 | 62.2 | 3.00 | 9.00  | 12.00 | 30     | 980  | 9    | 10    |
| 1657                  | BLANCA GRANDE 515 | 13.72 | 1.53 | 70    | 64.9 | 39.6 | 173.1                     | 26.3 | 0.9   | 72.1  | 13.05 | 1.53 | 388         | 33.5 | 66.6 | 3.25 | 8.00  | 17.75 | 30     | 1000 | 9    | 10    |
| 1667                  | NEW DIRKWIN       | 11.71 | 1.78 | 38    | 57.9 | 35.0 | 149.7                     | 48.6 | 1.4   | 71.1  | 9.89  | 1.78 | 465         | 27.2 | 55.2 | 1.25 | 2.00  | 1.25  | 60     | 720  | 5    | 5     |
| 1680                  | PATWIN 515        | 12.98 | 1.70 | 83    | 60.7 | 28.5 | 122.9                     | 74.1 | 2.3   | 71.9  | 12.10 | 1.70 | 455         | 31.0 | 63.0 | 3.00 | 11.00 | 17.50 | 20     | 950  | 9    | 10    |
| 1729                  | WB-PERLA          | 13.66 | 1.51 | 76    | 63.5 | 39.4 | 171.4                     | 28.0 | 1.0   | 75.1  | 12.49 | 1.51 | 461         | 34.0 | 73.4 | 9.50 | 18.50 | 15.00 | 10     | 960  | 9    | 10    |
| 1731                  | WB-PATRON         | 13.03 | 1.56 | 64    | 62.6 | 39.2 | 170.0                     | 28.3 | 1.3   | 75.4  | 11.92 | 1.56 | 397         | 31.5 | 60.0 | 2.00 | 3.00  | 3.50  | 60     | 700  | 6    | 6     |
| <b>ADVANCED LINES</b> |                   |       |      |       |      |      |                           |      |       |       |       |      |             |      |      |      |       |       |        |      |      |       |
| 1624                  | WB DA905-10       | 12.92 | 1.61 | 72    | 63.0 | 37.5 | 159.0                     | 38.9 | 1.5   | 74.0  | 11.91 | 1.61 | 446         | 28.2 | 62.6 | 3.50 | 9.00  | 21.00 | 20     | 960  | 9    | 10    |
| 1679                  | CLEAR WHITE 515   | 14.09 | 1.64 | 68    | 61.9 | 35.5 | 154.3                     | 43.3 | 2.0   | 76.1  | 12.69 | 1.64 | 443         | 34.2 | 60.4 | 3.25 | 8.50  | 11.25 | 40     | 950  | 9    | 10    |
| 1684                  | WWW CABR3509W     | 11.43 | 1.51 | 81    | 63.4 | 35.7 | 162.9                     | 36.0 | 1.2   | 72.4  | 9.61  | 1.51 | 421         | 26.7 | 61.0 | 1.25 | 2.50  | 3.75  | 40     | 680  | 5    | 5     |
| 1686                  | 08SB100           | 12.79 | 1.62 | 84    | 62.9 | 34.8 | 154.5                     | 44.4 | 1.0   | 71.6  | 11.24 | 1.62 | 459         | 27.7 | 64.0 | 5.50 | 10.50 | 17.50 | 20     | 960  | 9    | 10    |
| 1688                  | 08SB0658-B        | 13.09 | 1.60 | 77    | 63.0 | 36.0 | 169.6                     | 29.2 | 1.0   | 73.6  | 11.87 | 1.60 | 426         | 32.3 | 61.2 | 1.25 | 5.50  | 19.00 | 10     | 880  | 8    | 8     |
| 1710                  | UC 1710           | 13.84 | 1.79 | 79    | 63.0 | 34.4 | 169.5                     | 29.0 | 1.5   | 71.8  | 12.35 | 1.79 | 409         | 34.3 | 60.8 | 2.25 | 5.00  | 8.25  | 40     | 900  | 9    | 9     |
| 1711                  | UC 1711           | 13.41 | 1.78 | 70    | 58.8 | 28.8 | 113.3                     | 85.1 | 1.6   | 71.2  | 12.41 | 1.78 | 410         | 32.1 | 60.0 | 4.50 | 8.50  | 10.25 | 40     | 1035 | 9    | 10    |
| 1712                  | UC 1712           | 12.98 | 1.65 | 82    | 60.2 | 29.4 | 117.0                     | 78.8 | 3.0   | 67.6  | 11.55 | 1.65 | 443         | 30.1 | 60.6 | 3.75 | 14.00 | 16.25 | 40     | 900  | 9    | 9     |
| 1713                  | UC 1713           | 12.71 | 1.47 | 72    | 63.3 | 36.5 | 163.9                     | 34.5 | 1.4   | 75.5  | 11.13 | 1.47 | 395         | 29.4 | 63.0 | 2.00 | 4.00  | 6.50  | 50     | 880  | 8    | 8     |
| 1714                  | UC 1714           | 12.81 | 1.44 | 68    | 62.9 | 34.7 | 157.6                     | 40.9 | 1.6   | 76.1  | 10.85 | 1.44 | 400         | 32.6 | 61.0 | 2.75 | 5.00  | 9.00  | 50     | 880  | 7    | 8     |
| 1715                  | UC 1715           | 14.00 | 1.63 | 82    | 60.5 | 33.5 | 159.3                     | 39.6 | 1.2   | 71.7  | 12.22 | 1.63 | 456         | 34.5 | 63.6 | 4.00 | 10.00 | 12.50 | 40     | 980  | 9    | 10    |
| 1716                  | WINCAL 09196      | 11.91 | 1.60 | 91    | 61.5 | 27.2 | 101.4                     | 94.9 | 2.7   | 69.1  | 10.49 | 1.60 | 453         | 29.5 | 65.6 | 2.00 | 5.50  | 16.50 | 40     | 905  | 9    | 9     |
| 1723                  | ATOMO             | 12.30 | 1.59 | 87    | 63.2 | 33.2 | 156.8                     | 41.5 | 1.7   | 71.5  | 11.37 | 1.59 | 506         | 29.6 | 65.2 | 3.00 | 11.00 | 20.50 | 10     | 860  | 7    | 7     |
| 1724                  | 08SB0073          | 12.65 | 1.54 | 81    | 62.4 | 38.2 | 166.9                     | 31.4 | 1.9   | 73.1  | 11.14 | 1.54 | 457         | 27.4 | 63.0 | 3.00 | 6.00  | 12.00 | 30     | 935  | 9    | 9     |
| 1725                  | ATREVIDO          | 12.44 | 1.55 | 78    | 62.2 | 37.1 | 169.7                     | 28.9 | 1.8   | 71.9  | 10.93 | 1.55 | 409         | 29.7 | 62.0 | 2.00 | 5.00  | 7.50  | 50     | 875  | 7    | 7     |
| 1726                  | 08SB0738          | 13.45 | 1.63 | 84    | 61.4 | 30.7 | 144.8                     | 51.0 | 3.7   | 70.2  | 11.89 | 1.63 | 443         | 32.8 | 64.6 | 3.50 | 8.00  | 10.00 | 40     | 865  | 7    | 7     |
| 1727                  | 08SB0008-B        | 12.56 | 1.54 | 77    | 61.6 | 39.6 | 171.3                     | 28.1 | 1.1   | 72.2  | 11.22 | 1.54 | 423         | 26.5 | 66.0 | 5.00 | 8.00  | 5.50  | 70     | 840  | 6    | 6     |
| 1728                  | WB-JOAQUIN ORO    | 13.66 | 1.53 | 71    | 64.1 | 43.0 | 178.8                     | 20.5 | 0.7   | 74.7  | 11.92 | 1.53 | 480         | 36.8 | 68.2 | 6.00 | 19.00 | 15.50 | 10     | 950  | 9    | 10    |
| 1730                  | WB SJ907-229      | 14.54 | 1.53 | 77    | 63.8 | 35.6 | 162.8                     | 35.2 | 1.7   | 73.3  | 13.53 | 1.53 | 461         | 34.8 | 67.0 | 4.25 | 18.50 | 22.75 | 10     | 1010 | 9    | 10    |
| 1732                  | WWW BR2308W       | 10.90 | 1.57 | 75    | 62.3 | 37.7 | 154.8                     | 42.9 | 2.6   | 73.5  | 9.67  | 1.57 | 432         | 22.7 | 61.4 | 1.00 | 4.00  | 4.50  | 110    | 650  | 5    | 5     |
| 1734                  | APB W9-3AL        | 14.27 | 1.63 | 83    | 61.7 | 36.8 | 168.9                     | 29.7 | 1.1   | 72.3  | 12.66 | 1.63 | 412         | 32.7 | 64.0 | 3.50 | 9.00  | 10.50 | 40     | 950  | 9    | 10    |
| 1737                  | APB NM-1          | 11.21 | 1.55 | 70    | 61.9 | 35.8 | 158.6                     | 38.0 | 2.7   | 71.1  | 10.03 | 1.55 | 405         | 27.4 | 58.8 | 1.25 | 3.50  | 7.00  | 50     | 825  | 7    | 7     |
| 1738                  | APB MC-1          | 13.20 | 1.58 | 61    | 61.2 | 31.8 | 158.0                     | 39.5 | 2.3   | 73.1  | 12.20 | 1.58 | 489         | 29.8 | 59.8 | 3.00 | 8.00  | 16.50 | 20     | 900  | 8    | 8     |

Analysis provided by the California Wheat Commission Quality Laboratory, Woodland, CA

Pro = Protein% (12% moisture basis); Hard = NIR Hardness; Test Wt = Test weight (lb/bu); 1000 Kwt = Thousand kernel weight (grams);

Yield = Flour yield (%); Fall No = Falling number (seconds); Wet Glut = Wet gluten (%; 14% moisture basis); Absp = Absorption (%);

Arr = Arrival (min); Mix Pk = Mixing peak (min); MT = Stability of farinograph curve, departure - arrival (min); M.T.I. = Mixing tolerance index (B.U.);

Vol = Bread volume (c.c.); Text = Grain and texture (3-10 = Satisfactory, 1-2 = Unsatisfactory);

Score: 9-10 = Excellent, 7-8 = Satisfactory, 5-6 = Satisfactory to questionable, 3-4 = Questionable, 1-2 = Unsatisfactory

2010-2012 Common Wheat Over Year Yield Summary

| Entry                 | Name              | Sacramento Valley |                       |                       | San Joaquin Valley |                       |                       | Imperial Valley |                       |                       | Rainfed Sites   |                       |                       |
|-----------------------|-------------------|-------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|-----------------|-----------------------|-----------------------|-----------------|-----------------------|-----------------------|
|                       |                   | 2012**<br>(3 Loc) | 2011-12<br>(6 Loc/Yr) | 2010-12<br>(9 Loc/Yr) | 2012**<br>(3 Loc)  | 2011-12<br>(6 Loc/Yr) | 2010-12<br>(9 Loc/Yr) | 2012<br>(1 Loc) | 2011-12<br>(2 Loc/Yr) | 2010-12<br>(3 Loc/Yr) | 2012<br>(2 Loc) | 2011-12<br>(5 Loc/Yr) | 2010-12<br>(9 Loc/Yr) |
| <b>CULTIVARS</b>      |                   |                   |                       |                       |                    |                       |                       |                 |                       |                       |                 |                       |                       |
| 20                    | ANZA              | 4686.7 (25)       | 4280 (15)             | 4110 (14)             | 5260 (31)          | 5520 (16)             | 5330 (13)             | 7650 (11)       | 6390 (3)              | 6740 (4)              | 3370 (9)        | 4250 (7)              | 3530 (10)             |
| 788                   | EXPRESS           | 4420 (34)         | 4830 (13)             | 4720 (11)             | 5533.3 (23)        | 6240 (12)             | 6260 (11)             | 7290 (16)       | 5350 (15)             | 5300 (11)             | 3590 (4)        | 4300 (6)              | 3930 (6)              |
| 1340                  | MIKA              | 3786.7 (39)       | 3420 (18)             | -                     | 3870 (40)          | 4850 (18)             | -                     | 6680 (32)       | 4540 (18)             | -                     | 2710 (34)       | 3790 (12)             | -                     |
| 1419                  | PATWIN*           | 3930.6 (38)       | 4880 (12)             | 5430 (10)             | 6083.2 (4)         | 6615 (7)              | 6955 (8)              | -               | 3710 (19)             | -                     | -               | -                     | -                     |
| 1424                  | JOAQUIN           | 4590 (28)         | 3780 (17)             | 4710 (12)             | 5926.7 (8)         | 6380 (9)              | 6990 (7)              | 8030 (3)        | 6810 (2)              | 6850 (3)              | 2800 (32)       | 3630 (16)             | 3920 (7)              |
| 1478                  | CAL ROJO          | 4539.6 (30)       | 5060 (8)              | 5920 (5)              | 5228.4 (33)        | 6820 (2)              | 7270 (2)              | 6790 (26)       | 5710 (11)             | 6140 (7)              | 2870 (30)       | 3770 (13)             | 3880 (8)              |
| 1495                  | LASSIK*           | 4800.6 (21)       | 5240 (3)              | 5780 (6)              | 6583.2 (1)         | 6705 (4)              | 7060 (6)              | -               | 5130 (17)             | -                     | -               | -                     | -                     |
| 1521                  | REDWING           | 4809.6 (20)       | 5220 (4)              | 6110 (3)              | 5678.4 (19)        | 6930 (1)              | 7390 (1)              | 6850 (25)       | 5860 (7)              | 6300 (6)              | 2880 (29)       | 4530 (1)              | 4260 (3)              |
| 1522                  | BLANCA ROYALE     | 4470.5 (33)       | 5050 (9)              | 6050 (4)              | 5693.3 (17)        | 6630 (6)              | 7140 (5)              | 6780 (27)       | 5730 (10)             | 6130 (8)              | 3010 (25)       | 4480 (2)              | 4220 (4)              |
| 1523                  | BLANCA FUERTE     | 4694.6 (24)       | 5500 (2)              | 6260 (1)              | 5933.3 (7)         | 6700 (5)              | 7240 (4)              | 7890 (5)        | 6910 (1)              | 7210 (2)              | 3410 (7)        | 4450 (4)              | 4360 (1)              |
| 1548                  | WB-CRISTALLO      | 4780 (22)         | 5120 (7)              | 5780 (6)              | 5783.3 (14)        | 6210 (13)             | 6710 (10)             | 7260 (17)       | 5450 (14)             | 5820 (10)             | 3280 (10)       | 4460 (3)              | 4280 (2)              |
| 1650                  | WB-ROCKLAND       | 4893.3 (19)       | 5160 (6)              | 5620 (8)              | 5370 (28)          | 5890 (14)             | 6160 (12)             | 7250 (18)       | 5840 (9)              | 5990 (9)              | 3140 (17)       | 3690 (15)             | 3760 (9)              |
| 1657                  | BLANCA GRANDE 515 | 3310.5 (40)       | 4610 (14)             | 5510 (9)              | 5786.7 (13)        | 6370 (10)             | 6870 (9)              | 7670 (9)        | 6340 (4)              | 6630 (5)              | 2670 (35)       | 3720 (14)             | 3980 (5)              |
| 1667                  | NEW DIRKWIN       | 4330 (37)         | 4050 (16)             | 4450 (13)             | 3956.7 (39)        | 4570 (19)             | 4660 (14)             | 6160 (37)       | 5160 (16)             | 5080 (12)             | 2860 (31)       | 3810 (11)             | -                     |
| 1680                  | PATWIN 515        | 4936.7 (17)       | 5170 (5)              | -                     | 5883.3 (10)        | 6470 (8)              | -                     | 7250 (18)       | 6190 (5)              | -                     | 3110 (20)       | 4220 (8)              | -                     |
| 1729                  | WB-PERLA          | 4360 (36)         | -                     | -                     | 5640 (21)          | -                     | -                     | 7540 (14)       | -                     | -                     | 3140 (18)       | -                     | -                     |
| 1731                  | WB-PATRON         | 5403.3 (8)        | -                     | -                     | 5593.3 (22)        | -                     | -                     | 7560 (12)       | -                     | -                     | 3170 (16)       | -                     | -                     |
| <b>ADVANCED LINES</b> |                   |                   |                       |                       |                    |                       |                       |                 |                       |                       |                 |                       |                       |
| 1624                  | WB DA905-10       | 5773.3 (2)        | -                     | 6130 (2)              | 6246.7 (3)         | -                     | 7270 (2)              | 7560 (12)       | -                     | 7480 (1)              | 3230 (14)       | -                     | -                     |
| 1679                  | CLEAR WHITE 515   | 5213.3 (13)       | 4980 (10)             | -                     | 5186.7 (35)        | 5880 (15)             | -                     | 6700 (31)       | 5570 (13)             | -                     | 2910 (27)       | 3480 (17)             | -                     |
| 1684                  | WWW CABR3509W     | 4533.3 (31)       | 4900 (11)             | -                     | 5666.7 (20)        | 6260 (11)             | -                     | 7670 (9)        | 6050 (6)              | -                     | 3030 (24)       | 3890 (9)              | -                     |
| 1686                  | 08SB100           | 4500.6 (32)       | 5580 (1)              | -                     | 4930 (38)          | 5480 (17)             | -                     | 6640 (33)       | 5600 (12)             | -                     | 2900 (28)       | 3840 (10)             | -                     |
| 1688                  | 08SB0658-B        | 5096.7 (14)       | -                     | -                     | 5923.3 (9)         | 6750 (3)              | -                     | 7900 (4)        | 5860 (7)              | -                     | 3120 (19)       | 4390 (5)              | -                     |
| 1710                  | UC 1710           | 4380 (35)         | -                     | -                     | 5096.7 (37)        | -                     | -                     | 7210 (20)       | -                     | -                     | 3230 (12)       | -                     | -                     |
| 1711                  | UC 1711           | 5480 (6)          | -                     | -                     | 5883.3 (10)        | -                     | -                     | 4250 (38)       | -                     | -                     | 3240 (11)       | -                     | -                     |
| 1712                  | UC 1712           | 5070 (15)         | -                     | -                     | 5780 (15)          | -                     | -                     | 6290 (36)       | -                     | -                     | 3040 (22)       | -                     | -                     |
| 1713                  | UC 1713           | 5560 (4)          | -                     | -                     | 6013.3 (6)         | -                     | -                     | 7040 (24)       | -                     | -                     | 3580 (5)        | -                     | -                     |
| 1714                  | UC 1714           | 5310 (10)         | -                     | -                     | 5863.3 (12)        | -                     | -                     | 7140 (23)       | -                     | -                     | 2790 (33)       | -                     | -                     |
| 1715                  | UC 1715           | 5400 (9)          | -                     | -                     | 5483.3 (24)        | -                     | -                     | 6730 (29)       | -                     | -                     | 3070 (21)       | -                     | -                     |
| 1716                  | WINCAL 09196      | 5623.3 (3)        | -                     | -                     | 5143.3 (36)        | -                     | -                     | 6400 (35)       | -                     | -                     | 3180 (15)       | -                     | -                     |
| 1723                  | ATOMO             | 5970 (1)          | -                     | -                     | 6296.7 (2)         | -                     | -                     | 8300 (2)        | -                     | -                     | 4180 (1)        | -                     | -                     |
| 1724                  | 08SB0073          | 5070 (15)         | -                     | -                     | 5256.7 (32)        | -                     | -                     | 6760 (28)       | -                     | -                     | 3770 (3)        | -                     | -                     |
| 1725                  | ATREVIDO          | 5280 (11)         | -                     | -                     | 5333.3 (30)        | -                     | -                     | 6720 (30)       | -                     | -                     | 3040 (23)       | -                     | -                     |
| 1726                  | 08SB0738          | 5423.3 (7)        | -                     | -                     | 5440 (26)          | -                     | -                     | 6520 (34)       | -                     | -                     | 3380 (8)        | -                     | -                     |
| 1727                  | 08SB0008-B        | 5546.7 (5)        | -                     | -                     | 5680 (18)          | -                     | -                     | 7690 (8)        | -                     | -                     | 3430 (6)        | -                     | -                     |
| 1728                  | WB-JOAQUIN ORO    | 4633.3 (27)       | -                     | -                     | 5443.3 (25)        | -                     | -                     | 7840 (7)        | -                     | -                     | 2480 (36)       | -                     | -                     |
| 1730                  | WB SJ907-229      | 5276.7 (12)       | -                     | -                     | 6060 (5)           | -                     | -                     | 7510 (15)       | -                     | -                     | 3790 (2)        | -                     | -                     |
| 1732                  | WWW BR2308W       | 4923.3 (18)       | -                     | -                     | 5410 (27)          | -                     | -                     | 7850 (6)        | -                     | -                     | 3230 (13)       | -                     | -                     |
| 1734                  | APB W9-3AL        | 4773.3 (23)       | -                     | -                     | 5346.7 (29)        | -                     | -                     | 7180 (21)       | -                     | -                     | 3010 (26)       | -                     | -                     |
| 1737                  | APB NM-1          | 4684.6 (26)       | -                     | -                     | 5730 (16)          | -                     | -                     | 8410 (1)        | -                     | -                     | -               | -                     | -                     |
| 1738                  | APB MC-1          | 4544.6 (29)       | -                     | -                     | 5228.4 (33)        | -                     | -                     | 7160 (22)       | -                     | -                     | -               | -                     | -                     |
| MEAN                  |                   | 4860              | 4860                  | 5470                  | 5530               | 6170                  | 6660                  | 7160            | 5690                  | 6310                  | 3160            | 3960                  | 4040                  |
| CV                    |                   | 11                | 12.9                  | 13.2                  | 9.6                | 9.3                   | 7.5                   | 4.1             | 8                     | 7.5                   | 17.8            | 15.2                  | 16.9                  |
| LSD (.05)             |                   | 460               | 350                   | 310                   | 430                | 330                   | 230                   | 410             | 470                   | 380                   | 550             | 400                   | 340                   |

Numbers in parentheses indicate relative rank.

\* 2010,2012 data from elite trials

\*\* 2012 Sacramento and San Joaquin Valley average yields were calculated using adjusted means (Least Squared Means) to compensate for the absence of some varieties in some locations. For the Sacramento Valley it is recommended to also look at the results by location (Tables 3, 4 and 5).



2012 Intermountain Spring Wheat Trial  
 (2012 Oregon Spring Elite Yield Trial - OSEYT)

| Entry | Name           | Type     | Source    | Grown At |
|-------|----------------|----------|-----------|----------|
| 1     | Kelse          | HRS      | WSU       | ALL      |
| 2     | Glee (WA 8074) | HRS      | WSU       | ALL      |
| 3     | Bullseye       | HRS      | AgriPro   | ALL      |
| 4     | Cabernet       | HRS      | AgriPro   | ALL      |
| 5     | 97S621 - 05    | HRS      | AgriPro   | ALL      |
| 6     | 90314          | HRS      | AgriPro   | ALL      |
| 7     | Summit 515     | HRS      | AgriPro   | ALL      |
| 8     | Cal Rojo       | HRS      | AgriPro   | ALL      |
| 9     | Redwing        | HRS      | AgriPro   | ALL      |
| 10    | Jefferson      | HRS      | UI        | ALL      |
| 11    | Buck Pronto    | HRS      | Limagrain | ALL      |
| 12    | C-2821         | HRS      | Wagner    | ALL      |
| 13    | BZ-401         | HRS      | Wagner    | ALL      |
| 14    | Lassik         | HRS      | UC Davis  | ALL      |
| 15    | UC 1618        | HRS      | UC Davis  | ALL      |
| 16    | WB-Rockland    | HRS      | Westbred  | ALL      |
| 17    | WB-Fuzion      | HRS      | Westbred  | ALL      |
| 18    | Volt           | HRS      | Westbred  | ALL      |
| 19    | Patwin 515     | HWS      | UC Davis  | ALL      |
| 20    | Clearwhite 515 | HWS      | UC Davis  | ALL      |
| 21    | WB-Hartline    | HWS      | Westbred  | ALL      |
| 22    | IDO 694        | HWS      | UI        | ALL      |
| 23    | WB 1035 CL+    | SWS      | Westbred  | ALL      |
| 24    | Alturas        | SWS      | UI        | ALL      |
| 25    | IDO 671        | SWS      | UI        | ALL      |
| 26    | IDO 644        | SWS      | UI        | ALL      |
| 27    | IDO 599        | SWS      | UI        | ALL      |
| 28    | IDO 686        | SWS      | UI        | ALL      |
| 29    | IDO 687        | SWS      | UI        | ALL      |
| 30    | Alpowa         | SWS      | WSU       | ALL      |
| 31    | Louise         | SWS      | WSU       | ALL      |
| 32    | JD             | SWS-Club | WSU       | ALL      |
| 33    | Diva           | SWS      | WSU       | ALL      |
| 34    | Whit           | SWS      | WSU       | ALL      |
| 35    | Babe           | SWS      | WSU       | ALL      |

35 ENTRIES

**TYPE:** HRS = Hard Red Spring; HWS = Hard White Spring; CLB = Club, SWS = Soft White Spring

**SOURCE:** CA = University of California; UI = University of Idaho;  
 OSU = Oregon State University; WSU = Washington State University

3 locations: UC IREC (Tulelake), Siskiyou (Scott Valley), Lassen (Susanville)

2012 Lassen Spring Wheat Trial

| Entry     | Name           | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Protein<br>% |
|-----------|----------------|---------------------|---------------------|------------------|------------------|--------------|
|           |                |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) |              |
| 1         | Kelse          | 2230 (34)           | 58.4                | 36.0             | 27               | 13.69        |
| 2         | Glee (WA 8074) | 4080 (3)            | 60.8                | 39.3             | 30               | 13.68        |
| 3         | Bullseye       | 3380 (11)           | 61.9                | 30.6             | 27               | 10.45        |
| 4         | Cabernet       | 2950 (20)           | 59.9                | 29.7             | 24               | 13.13        |
| 5         | 97S621 - 05    | 2910 (21)           | 61.4                | 25.8             | 29               | 13.70        |
| 6         | 90314          | 2320 (33)           | 57.0                | 33.0             | 19               | 12.11        |
| 7         | Summit 515     | 2630 (27)           | 59.1                | 28.9             | 21               | 12.49        |
| 8         | Cal Rojo       | 2770 (23)           | 58.4                | 35.3             | 20               | 12.23        |
| 9         | Redwing        | 2130 (35)           | 56.8                | 29.5             | 20               | 11.59        |
| 10        | Jefferson      | 3130 (14)           | 60.0                | 32.5             | 28               | 12.88        |
| 11        | Buck Pronto    | 3060 (18)           | 59.4                | 37.5             | 27               | 14.81        |
| 12        | C-2821         | 2690 (25)           | 59.5                | 31.6             | 29               | 12.17        |
| 13        | BZ-401         | 3120 (16)           | 61.8                | 34.8             | 34               | 11.52        |
| 14        | Lassik         | 2750 (24)           | 60.0                | 30.8             | 23               | 13.31        |
| 15        | UC 1618        | 2660 (26)           | 60.1                | 30.1             | 24               | 13.52        |
| 16        | WB-Rockland    | 2500 (28)           | 58.7                | 31.7             | 24               | 13.71        |
| 17        | WB-Fuzion      | 3080 (17)           | 61.2                | 40.1             | 29               | 14.29        |
| 18        | Volt           | 2810 (22)           | 61.1                | 29.9             | 28               | 12.74        |
| 19        | Patwin 515     | 2490 (29)           | 57.4                | 28.1             | 21               | 14.21        |
| 20        | Clearwhite 515 | 3570 (8)            | 59.1                | 34.2             | 26               | 13.85        |
| 21        | WB-Hartline    | 3440 (10)           | 59.7                | 49.9             | 26               | 13.16        |
| 22        | IDO 694        | 4580 (1)            | 61.9                | 40.1             | 30               | 12.85        |
| 23        | WB 1035 CL+    | 3590 (6)            | 61.0                | 35.9             | 26               | 12.50        |
| 24        | Alturas        | 2480 (30)           | 59.2                | 31.2             | 24               | 13.43        |
| 25        | IDO 671        | 2340 (32)           | 58.8                | 31.1             | 27               | 12.99        |
| 26        | IDO 644        | 3660 (5)            | 59.3                | 31.7             | 26               | 9.53         |
| 27        | IDO 599        | 3560 (9)            | 60.9                | 31.2             | 27               | 10.67        |
| 28        | IDO 686        | 3260 (13)           | 61.2                | 34.1             | 30               | 11.12        |
| 29        | IDO 687        | 4200 (2)            | 60.7                | 31.9             | 28               | 10.01        |
| 30        | Alpowa         | 3710 (4)            | 61.4                | 34.3             | 31               | 8.67         |
| 31        | Louise         | 3130 (15)           | 59.9                | 40.4             | 30               | 11.04        |
| 32        | JD             | 2480 (31)           | 59.8                | 28.9             | 28               | 13.56        |
| 33        | Diva           | 3580 (7)            | 59.4                | 37.2             | 30               | 9.94         |
| 34        | Whit           | 3040 (19)           | 59.8                | 34.5             | 24               | 12.05        |
| 35        | Babe           | 3360 (12)           | 60.5                | 33.9             | 27               | 10.13        |
| MEAN      |                | 3080                | 59.9                | 33.6             | 26               | 12.34        |
| CV        |                | 16.5                | 0.9                 | 5.7              | 6.7              |              |
| LSD (.05) |                | 830                 | 1.1                 | 3.9              | 4                |              |

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

## 2012 Tulelake Spring Wheat Trial

| Entry     | Name           | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Days To               | Lodging       |         | Xanthomonas |
|-----------|----------------|---------------------|---------------------|------------------|-----------------------|---------------|---------|-------------|
|           |                |                     |                     |                  | Heading<br>From (3/1) | Soft<br>Dough | Harvest |             |
| 1         | Kelse          | 6420 (31)           | 60.6                | 35               | 126                   | 1.0           | 1.3     | 1.0         |
| 2         | Glee (WA 8074) | 6030 (34)           | 60.4                | 36               | 122                   | 4.3           | 4.0     | 1.0         |
| 3         | Bullseye       | 7580 (17)           | 62.6                | 32               | 125                   | 1.0           | 3.3     | 1.0         |
| 4         | Cabernet       | 7760 (14)           | 63.2                | 32               | 125                   | 1.0           | 1.3     | 1.0         |
| 5         | 97S621 - 05    | 7150 (25)           | 62.2                | 39               | 126                   | 1.0           | 3.0     | 1.0         |
| 6         | 90314          | 6520 (30)           | 59.6                | 29               | 127                   | 1.0           | 1.0     | 1.0         |
| 7         | Summit 515     | 7420 (19)           | 60.8                | 33               | 125                   | 1.0           | 1.0     | 1.0         |
| 8         | Cal Rojo       | 7690 (16)           | 61.6                | 28               | 125                   | 1.0           | 1.0     | 1.0         |
| 9         | Redwing        | 7470 (18)           | 58.5                | 29               | 127                   | 1.0           | 1.0     | 1.0         |
| 10        | Jefferson      | 7170 (23)           | 60.9                | 37               | 125                   | 1.3           | 2.0     | 1.0         |
| 11        | Buck Pronto    | 7160 (24)           | 60.9                | 36               | 123                   | 1.0           | 1.3     | 1.0         |
| 12        | C-2821         | 7290 (20)           | 61.2                | 42               | 124                   | 1.0           | 2.3     | 1.0         |
| 13        | BZ-401         | 6960 (27)           | 62.0                | 42               | 122                   | 2.7           | 3.3     | 1.0         |
| 14        | Lassik         | 6790 (28)           | 59.0                | 33               | 126                   | 1.0           | 1.0     | 1.0         |
| 15        | UC 1618        | 6080 (33)           | 58.6                | 36               | 127                   | 1.0           | 1.0     | 1.0         |
| 16        | WB-Rockland    | 6760 (29)           | 63.0                | 32               | 126                   | 1.0           | 1.0     | 1.0         |
| 17        | WB-Fuzion      | 8090 (10)           | 62.4                | 41               | 124                   | 1.0           | 2.0     | 1.3         |
| 18        | Volt           | 7190 (22)           | 62.7                | 38               | 129                   | 1.0           | 1.3     | 1.3         |
| 19        | Patwin 515     | 7230 (21)           | 58.5                | 28               | 127                   | 1.0           | 1.0     | 1.0         |
| 20        | Clearwhite 515 | 7980 (11)           | 60.3                | 32               | 122                   | 1.0           | 2.0     | 2.7         |
| 21        | WB-Hartline    | 8270 (8)            | 60.8                | 38               | 126                   | 1.0           | 2.0     | 2.3         |
| 22        | IDO 694        | 8710 (4)            | 63.2                | 34               | 122                   | 1.0           | 1.3     | 1.0         |
| 23        | WB 1035 CL+    | 7700 (15)           | 61.4                | 38               | 123                   | 1.0           | 1.0     | 1.0         |
| 24        | Alturas        | 8360 (5)            | 60.7                | 38               | 125                   | 1.0           | 2.0     | 1.7         |
| 25        | IDO 671        | 8100 (9)            | 60.1                | 37               | 126                   | 1.3           | 2.3     | 1.0         |
| 26        | IDO 644        | 8350 (7)            | 59.1                | 34               | 122                   | 1.0           | 2.0     | 1.7         |
| 27        | IDO 599        | 9890 (1)            | 59.7                | 39               | 124                   | 1.0           | 1.7     | 1.7         |
| 28        | IDO 686        | 7910 (12)           | 61.6                | 40               | 127                   | 1.0           | 2.3     | 1.0         |
| 29        | IDO 687        | 8950 (2)            | 61.9                | 39               | 126                   | 1.0           | 1.0     | 1.3         |
| 30        | Alpowa         | 8360 (6)            | 61.4                | 41               | 130                   | 2.7           | 3.3     | 1.0         |
| 31        | Louise         | 6160 (32)           | 56.4                | 36               | 125                   | 2.7           | 5.7     | 1.0         |
| 32        | JD             | 7040 (26)           | 61.4                | 39               | 127                   | 2.7           | 3.7     | 1.0         |
| 33        | Diva           | 5020 (35)           | 57.9                | 34               | 127                   | 5.0           | 6.7     | 1.0         |
| 34        | Whit           | 7860 (13)           | 61.5                | 39               | 123                   | 2.0           | 2.0     | 1.0         |
| 35        | Babe           | 8850 (3)            | 62.4                | 39               | 126                   | 1.0           | 2.7     | 1.0         |
| MEAN      |                | 7490                | 60.8                | 36               | 125                   | 1.4           | 2.1     | 1.2         |
| CV        |                | 5.8                 | 1.1                 | 8.2              | 0.6                   | 35.4          | 30.8    | 51.7        |
| LSD (.05) |                | 710                 | 1.4                 | 5                | 2                     | 0.8           | 1.1     | ns          |

Rating scale for diseases (area of flag-1 leaf affected) and lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

2012 Siskiyou Spring Wheat Trial

| Entry     | Name           | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Lodging       |         | Stripe<br>Rust | Xanthomonas | Protein<br>% |
|-----------|----------------|---------------------|---------------------|------------------|------------------|---------------|---------|----------------|-------------|--------------|
|           |                |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Soft<br>Dough | Harvest |                |             |              |
| 1         | Kelse          | 5600 (21)           | 60.2                | 40.1             | 40               | 1.0           | 3.3     | 2.3            | 2.0         | 14.11        |
| 2         | Glee (WA 8074) | 5970 (12)           | 61.3                | 41.8             | 38               | 2.3           | 2.3     | 1.0            | 1.0         | 13.25        |
| 3         | Bullseye       | 6190 (8)            | 62.9                | 37.4             | 37               | 1.0           | 3.0     | 2.0            | 1.3         | 13.23        |
| 4         | Cabernet       | 6440 (5)            | 62.7                | 37.4             | 35               | 1.0           | 1.0     | 1.3            | 1.0         | 12.65        |
| 5         | 97S621 - 05    | 5890 (15)           | 62.8                | 31.2             | 41               | 1.3           | 1.0     | 1.7            | 2.0         | 13.54        |
| 6         | 90314          | 4240 (34)           | 58.0                | 34.9             | 32               | 1.0           | 1.0     | 1.0            | 1.0         | 13.04        |
| 7         | Summit 515     | 6100 (9)            | 61.1                | 37.5             | 33               | 1.0           | 1.0     | 1.0            | 1.0         | 13.13        |
| 8         | Cal Rojo       | 5870 (16)           | 59.0                | 35.6             | 30               | 1.0           | 1.0     | 1.0            | 1.0         | 13.38        |
| 9         | Redwing        | 5480 (22)           | 57.4                | 35.8             | 29               | 1.0           | 1.0     | 1.0            | 1.0         | 13.87        |
| 10        | Jefferson      | 5140 (26)           | 60.2                | 34.4             | 39               | 2.0           | 3.7     | 4.3            | 2.0         | 12.97        |
| 11        | Buck Pronto    | 4610 (31)           | 61.1                | 41.5             | 39               | 1.0           | 1.0     | 1.3            | 1.7         | 15.08        |
| 12        | C-2821         | 5900 (14)           | 60.7                | 37.1             | 47               | 1.0           | 1.7     | 2.0            | 1.0         | 12.63        |
| 13        | BZ-401         | 5480 (23)           | 62.4                | 37.6             | 47               | 1.0           | 1.3     | 4.0            | 2.7         | 13.33        |
| 14        | Lassik         | 6090 (10)           | 62.0                | 35.1             | 34               | 1.0           | 1.0     | 1.0            | 1.0         | 12.01        |
| 15        | UC 1618        | 5970 (13)           | 62.4                | 36.3             | 30               | 1.0           | 1.0     | 1.0            | 1.0         | 11.9         |
| 16        | WB-Rockland    | 5460 (24)           | 61.6                | 35.5             | 34               | 1.0           | 1.0     | 1.0            | 1.0         | 13.9         |
| 17        | WB-Fuzion      | 5020 (28)           | 61.1                | 37.3             | 43               | 1.0           | 1.3     | 5.0            | 1.0         | 13.09        |
| 18        | Volt           | 6600 (2)            | 63.0                | 32.0             | 40               | 1.0           | 2.7     | 1.0            | 1.0         | 13.3         |
| 19        | Patwin 515     | 5450 (25)           | 58.6                | 31.7             | 31               | 1.0           | 1.0     | 1.0            | 1.0         | 13.7         |
| 20        | Clearwhite 515 | 5000 (29)           | 60.7                | 38.7             | 37               | 1.0           | 1.0     | 1.0            | 1.0         | 14.17        |
| 21        | WB-Hartline    | 5860 (17)           | 58.7                | 48.2             | 38               | 1.3           | 7.0     | 4.7            | 3.0         | 12.61        |
| 22        | IDO 694        | 6370 (6)            | 62.3                | 40.2             | 34               | 1.0           | 1.3     | 3.0            | 1.7         | 12.67        |
| 23        | WB 1035 CL+    | 5800 (19)           | 59.5                | 34.7             | 37               | 1.0           | 1.3     | 5.7            | 1.3         | 12.28        |
| 24        | Alturas        | 6070 (11)           | 60.3                | 33.6             | 41               | 2.0           | 2.7     | 3.7            | 1.7         | 11.06        |
| 25        | IDO 671        | 6460 (4)            | 60.7                | 32.4             | 42               | 1.0           | 1.7     | 2.7            | 1.7         | 10.86        |
| 26        | IDO 644        | 6340 (7)            | 59.4                | 35.3             | 38               | 1.0           | 1.0     | 4.3            | 1.0         | 10.93        |
| 27        | IDO 599        | 6760 (1)            | 61.5                | 33.8             | 39               | 1.0           | 2.7     | 3.7            | 1.0         | 11.14        |
| 28        | IDO 686        | 4210 (35)           | 61.3                | 35.7             | 42               | 2.3           | 4.3     | 1.7            | 1.0         | 11.38        |
| 29        | IDO 687        | 6460 (3)            | 61.3                | 33.1             | 42               | 1.0           | 2.0     | 2.3            | 4.0         | 10.67        |
| 30        | Alpowa         | 4530 (32)           | 56.3                | 28.3             | 42               | 2.7           | 4.0     | 6.3            | 3.0         | 11.5         |
| 31        | Louise         | 4460 (33)           | 59.3                | 39.1             | 40               | 3.3           | 6.3     | 1.3            | 1.0         | 10.95        |
| 32        | JD             | 4970 (30)           | 60.2                | 33.0             | 43               | 5.3           | 7.0     | 1.0            | 1.0         | 12.61        |
| 33        | Diva           | 5070 (27)           | 59.4                | 41.0             | 38               | 5.0           | 7.3     | 1.0            | 1.0         | 11.57        |
| 34        | Whit           | 5800 (18)           | 60.0                | 37.1             | 39               | 1.3           | 1.7     | 2.7            | 1.0         | 11.34        |
| 35        | Babe           | 5730 (20)           | 59.6                | 34.8             | 40               | 1.0           | 1.7     | 6.0            | 1.0         | 11.42        |
| MEAN      |                | 5640                | 60.5                | 36.2             | 38               | 1.5           | 2.4     | 2.4            | 1.4         | 12.55        |
| CV        |                | 10.9                | 1.2                 | 4.5              | 5                | 46.6          | 51.6    | 36.6           | 58.1        |              |
| LSD (.05) |                | 1000                | 1.5                 | 3.3              | 3                | 1.1           | 2.0     | 1.4            | 1.4         |              |

Rating scale for diseases (area of flag-1 leaf affected) and lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2010-12 Intermountain Spring Wheat Over Year Yield Summary (lbs/acre)

| Entry | Name            | 2012<br>(3 loc) | 2011-12<br>(6 loc/yr) | 2010-12<br>(9 loc/yr) |
|-------|-----------------|-----------------|-----------------------|-----------------------|
| 1     | Kelse           | 4750 (32)       | 5440 (19)             | 5300 (11)             |
| 2     | Glee (WA 8074)  | 5360 (19)       | 5450 (18)             | -                     |
| 3     | Bullseye        | 5720 (7)        | 5740 (10)             | 5690 (7)              |
| 4     | Cabernet        | 5720 (7)        | 5820 (8)              | 5670 (8)              |
| 5     | 97S621 - 05     | 5320 (20)       | -                     | -                     |
| 6     | 90314           | 4360 (35)       | -                     | -                     |
| 7     | Summit 515      | 5380 (18)       | -                     | -                     |
| 8     | Cal Rojo        | 5440 (16)       | -                     | -                     |
| 9     | Redwing         | 5030 (27)       | -                     | -                     |
| 10    | Jefferson       | 5150 (24)       | 5560 (14)             | 5440 (9)              |
| 11    | Buck Pronto     | 4940 (28)       | 5530 (16)             | -                     |
| 12    | C-2821          | 5290 (21)       | -                     | -                     |
| 13    | BZ-401          | 5190 (23)       | -                     | -                     |
| 14    | Lassik          | 5210 (22)       | 5620 (13)             | 5410 (10)             |
| 15    | UC 1618         | 4900 (30)       | 5520 (17)             | -                     |
| 16    | WB-Rockland     | 4910 (29)       | 5190 (22)             | -                     |
| 17    | WB-Fuzion       | 5400 (17)       | 5550 (15)             | -                     |
| 18    | Volt            | 5530 (13)       | -                     | -                     |
| 19    | Patwin 515      | 5060 (26)       | 5260 (20)             | -                     |
| 20    | Clear White 515 | 5520 (15)       | 5630 (12)             | -                     |
| 21    | WB-Hartline     | 5860 (6)        | -                     | -                     |
| 22    | IDO 694         | 6550 (2)        | -                     | -                     |
| 23    | WB 1035 CL+     | 5700 (9)        | -                     | -                     |
| 24    | Alturas         | 5640 (10)       | 6120 (6)              | 6090 (4)              |
| 25    | IDO 671         | 5630 (11)       | 6260 (5)              | 6130 (3)              |
| 26    | IDO 644         | 6120 (4)        | 6390 (4)              | 6280 (2)              |
| 27    | IDO 599         | 6740 (1)        | 6990 (1)              | -                     |
| 28    | IDO 686         | 5130 (25)       | 5780 (9)              | -                     |
| 29    | IDO 687         | 6540 (3)        | 6900 (2)              | -                     |
| 30    | Alpowa          | 5530 (13)       | 6030 (7)              | 5970 (5)              |
| 31    | Louise          | 4580 (33)       | 5230 (21)             | -                     |
| 32    | JD              | 4830 (31)       | 5090 (24)             | 5150 (12)             |
| 33    | Diva            | 4560 (34)       | 5110 (23)             | 5100 (13)             |
| 34    | Whit            | 5570 (12)       | 5720 (11)             | 5840 (6)              |
| 35    | Babe            | 5980 (5)        | 6450 (3)              | 6420 (1)              |
|       | MEAN            | 5400            | 5770                  | 5730                  |

Numbers in parentheses indicate relative rank in column.

2012 Intermountain Winter Wheat Trial  
 (2012 Oregon Winter Elite Yield Trial - OWEYT)

| Entry | Name          | Type | Source    | Grown At              |
|-------|---------------|------|-----------|-----------------------|
| 1     | Stephens      | SWW  | FSD       | Siskiyou and Tulelake |
| 2     | Madsen        | SWW  | FSD       | Siskiyou and Tulelake |
| 3     | Tubbs-06      | SWW  | FSD       | Siskiyou and Tulelake |
| 4     | ORSS-1757     | SWW  | FSD       | Siskiyou and Tulelake |
| 5     | Goetze        | SWW  | FSD       | Siskiyou and Tulelake |
| 6     | Skiles        | SWW  | FSD       | Siskiyou and Tulelake |
| 7     | Mary          | SWW  | FSD       | Siskiyou and Tulelake |
| 8     | Brundage 96   | SWW  | U of I    | Siskiyou and Tulelake |
| 9     | Bruneau       | SWW  | U of I    | Siskiyou and Tulelake |
| 10    | 96-16702A     | SWW  | U of I    | Siskiyou and Tulelake |
| 11    | IDO 663       | SWW  | U of I    | Siskiyou and Tulelake |
| 12    | WA 8134       | SWW  | WSU       | Siskiyou and Tulelake |
| 13    | ARS-Amber     | SWW  | ARS       | Siskiyou and Tulelake |
| 14    | 970161-3L     | SWW  | ARS       | Siskiyou and Tulelake |
| 15    | YS 221        | SWW  | YieldStar | Siskiyou and Tulelake |
| 16    | YS 215        | SWW  | YieldStar | Siskiyou and Tulelake |
| 17    | NSA 94-2351A  | SWW  | Limagrain | Siskiyou and Tulelake |
| 18    | LWW 04-4009   | SWW  | Limagrain | Siskiyou and Tulelake |
| 19    | Westbred 528  | SWW  | WB        | Siskiyou and Tulelake |
| 20    | WB Junction   | SWW  | WB        | Siskiyou and Tulelake |
| 21    | Legion        | SWW  | AP        | Siskiyou and Tulelake |
| 22    | AP Legacy     | SWW  | AP        | Siskiyou and Tulelake |
| 23    | AP Badger     | SWW  | AP        | Siskiyou and Tulelake |
| 24    | SY Ovation    | SWW  | AP        | Siskiyou and Tulelake |
| 25    | ORCF-101R     | SWW  | FSD       | Siskiyou and Tulelake |
| 26    | ORCF-102      | SWW  | FSD       | Siskiyou and Tulelake |
| 27    | ORCF-103      | SWW  | FSD       | Siskiyou and Tulelake |
| 28    | ORI2101835    | SWW  | CFEFF     | Siskiyou and Tulelake |
| 29    | UICF-Brundage | SWW  | U of I    | Siskiyou and Tulelake |
| 30    | AP700CL       | SWW  | AP        | Siskiyou and Tulelake |
| 31    | WB 1070CL     | SWW  | WB        | Siskiyou and Tulelake |
| 32    | WB 1066CL     | SWW  | WB        | Siskiyou and Tulelake |
| 33    | Coda          | Club | FSD       | Siskiyou and Tulelake |
| 34    | Cara          | Club | FSD       | Siskiyou and Tulelake |
| 35    | ARS97230-6C   | Club | ARS       | Siskiyou and Tulelake |
| 36    | OR2070608     | SWW  | DS        | Siskiyou and Tulelake |
| 37    | OR2070870     | SWW  | DS        | Siskiyou and Tulelake |
| 38    | OR2071071     | SWW  | DS        | Siskiyou and Tulelake |
| 39    | OR2071628     | SWW  | DS        | Siskiyou and Tulelake |
| 40    | OR2071073     | SWW  | DS        | Siskiyou and Tulelake |
| 41    | OR2080641     | SWW  | DS        | Siskiyou and Tulelake |
| 42    | OR08047P94    | SWW  | DS        | Siskiyou and Tulelake |
| 43    | OR2070422     | SWW  | DS        | Siskiyou and Tulelake |
| 44    | OR2080764     | SWW  | DS        | Siskiyou and Tulelake |
| 45    | OR2080924     | SWW  | DS        | Siskiyou and Tulelake |
| 46    | WINCAL 09196  | HRW  | UC        | Siskiyou and Tulelake |

46 ENTRIES

**TYPE:** SWW = Soft White Winter

2 locations: UC IREC (Tulelake), Siskiyou

2012 Siskiyou Winter Wheat Trial

| Entry     | Name          | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000<br>Kernel Wt<br>(g) | Plant Ht<br>(in) | Shatter | Stripe<br>Rust |
|-----------|---------------|---------------------|---------------------|--------------------------|------------------|---------|----------------|
| 1         | Stephens      | 5930 (29)           | 59.0                | 44.1                     | 33               | 1.0     | 1.0            |
| 2         | Madsen        | 6370 (16)           | 59.1                | 36.1                     | 37               | 1.0     | 1.0            |
| 3         | Tubbs-06      | 5490 (39)           | 58.7                | 41.4                     | 37               | 1.0     | 1.8            |
| 4         | ORSS-1757     | 5680 (31)           | 58.6                | 36.1                     | 34               | 1.0     | 1.0            |
| 5         | Goetze        | 6410 (14)           | 59.9                | 35.4                     | 32               | 1.0     | 1.0            |
| 6         | Skiles        | 6230 (20)           | 60.1                | 40.0                     | 32               | 1.0     | 1.0            |
| 7         | Mary          | 7220 (1)            | 60.0                | 39.1                     | 35               | 1.0     | 1.3            |
| 8         | Brundage 96   | 6660 (7)            | 58.5                | 34.3                     | 36               | 1.0     | 1.0            |
| 9         | Bruneau       | 6640 (9)            | 60.4                | 36.1                     | 36               | 1.0     | 1.0            |
| 10        | 96-16702A     | 6500 (11)           | 59.7                | 37.5                     | 34               | 1.0     | 1.0            |
| 11        | IDO 663       | 6840 (4)            | 59.9                | 39.2                     | 35               | 1.0     | 1.0            |
| 12        | WA 8134       | 6150 (24)           | 60.1                | 36.3                     | 37               | 1.0     | 1.0            |
| 13        | ARS-Amber     | 6360 (17)           | 59.4                | 34.9                     | 33               | 1.0     | 1.0            |
| 14        | 970161-3L     | 5570 (35)           | 60.1                | 34.2                     | 35               | 1.0     | 1.0            |
| 15        | YS 221        | 6960 (2)            | 60.9                | 34.4                     | 35               | 1.0     | 1.0            |
| 16        | YS 215        | 5500 (38)           | 59.0                | 30.7                     | 35               | 1.0     | 4.0            |
| 17        | NSA 94-2351A  | 6410 (15)           | 58.3                | 39.5                     | 30               | 1.0     | 1.0            |
| 18        | LWW 04-4009   | 5430 (41)           | 61.2                | 40.0                     | 34               | 1.0     | 1.0            |
| 19        | Westbred 528  | 5970 (28)           | 59.2                | 38.5                     | 34               | 1.0     | 1.0            |
| 20        | WB Junction   | 6460 (12)           | 61.1                | 38.8                     | 34               | 1.0     | 1.0            |
| 21        | Legion        | 6100 (26)           | 58.9                | 43.2                     | 36               | 1.0     | 1.0            |
| 22        | AP Legacy     | 5290 (42)           | 59.4                | 42.5                     | 36               | 1.0     | 2.8            |
| 23        | AP Badger     | 6810 (6)            | 59.3                | 40.2                     | 31               | 1.0     | 1.5            |
| 24        | SY Ovation    | 6360 (18)           | 59.5                | 42.3                     | 33               | 1.0     | 1.0            |
| 25        | ORCF-101R     | 6150 (25)           | 60.1                | 37.3                     | 35               | 1.0     | 1.0            |
| 26        | ORCF-102      | 5600 (33)           | 59.4                | 37.7                     | 34               | 1.0     | 1.0            |
| 27        | ORCF-103      | 5060 (44)           | 58.6                | 38.5                     | 34               | 1.0     | 1.0            |
| 28        | ORI2101835    | 5460 (40)           | 59.7                | 39.5                     | 36               | 1.0     | 1.0            |
| 29        | UICF-Brundage | 6190 (21)           | 58.2                | 35.5                     | 30               | 1.0     | 1.0            |
| 30        | AP700CL       | 6330 (19)           | 59.4                | 44.1                     | 34               | 1.0     | 1.0            |
| 31        | WB 1070CL     | 6910 (3)            | 61.6                | 40.7                     | 34               | 1.0     | 1.0            |
| 32        | WB 1066CL     | 5130 (43)           | 60.9                | 41.0                     | 37               | 1.3     | 1.0            |
| 33        | Coda          | 5550 (36)           | 60.6                | 31.7                     | 36               | 1.0     | 1.0            |
| 34        | Cara          | 6520 (10)           | 58.1                | 31.3                     | 36               | 1.0     | 1.0            |
| 35        | ARS97230-6C   | 6050 (27)           | 59.2                | 33.7                     | 31               | 1.0     | 1.0            |
| 36        | OR2070608     | 6830 (5)            | 59.3                | 38.8                     | 33               | 1.0     | 1.0            |
| 37        | OR2070870     | 5630 (32)           | 60.3                | 39.2                     | 32               | 1.0     | 1.0            |
| 38        | OR2071071     | 6450 (13)           | 56.8                | 36.8                     | 32               | 1.0     | 1.0            |
| 39        | OR2071628     | 5600 (34)           | 56.9                | 30.6                     | 31               | 1.0     | 1.0            |
| 40        | OR2071073     | 5030 (45)           | 54.4                | 33.1                     | 32               | 1.0     | 1.0            |
| 41        | OR2080641     | 6150 (23)           | 58.6                | 39.8                     | 34               | 1.0     | 1.0            |
| 42        | OR08047P94    | 6650 (8)            | 56.7                | 32.9                     | 35               | 1.0     | 1.0            |
| 43        | OR2070422     | 5500 (37)           | 54.7                | 38.5                     | 33               | 1.0     | 1.0            |
| 44        | OR2080764     | 6160 (22)           | 53.8                | 32.7                     | 31               | 1.0     | 1.0            |
| 45        | OR2080924     | 5840 (30)           | 57.7                | 41.5                     | 35               | 1.0     | 1.0            |
| 46        | WINCAL 09196  | 4780 (46)           | 60.3                | 34.1                     | 30               | 1.0     | 1.0            |
| MEAN      |               | 6080                | 59.2                | 37.4                     | 34               | 1.0     | 1.1            |
| CV        |               | 15.3                | 1.7                 | 5.1                      | 4.8              | 7.3     | 45.7           |
| LSD (.05) |               | 1300                | 1.6                 | 3.8                      | 2                | ns      | 0.7            |

Rating scale for diseases (area of flag-1 leaf affected), and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

## 2012 Tulelake Winter Wheat Trial

| Entry | Name          | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Days To               | Lodging |
|-------|---------------|---------------------|---------------------|------------------|-----------------------|---------|
|       |               |                     |                     |                  | Heading<br>From (1/1) | Harvest |
| 1     | Stephens      | 6680 (26)           | 57.4                | 37               | 177                   | 1.0     |
| 2     | Madsen        | 6470 (31)           | 57.9                | 38               | 180                   | 1.0     |
| 3     | Tubbs-06      | 7280 (7)            | 58.2                | 39               | 177                   | 1.0     |
| 4     | ORSS-1757     | 6020 (40)           | 56.9                | 35               | 173                   | 1.0     |
| 5     | Goetze        | 5850 (44)           | 56.7                | 35               | 172                   | 1.0     |
| 6     | Skiles        | 6660 (27)           | 59.2                | 35               | 175                   | 1.0     |
| 7     | Mary          | 7350 (4)            | 58.7                | 33               | 174                   | 1.0     |
| 8     | Brundage 96   | 6860 (17)           | 57.7                | 36               | 172                   | 1.0     |
| 9     | Bruneau       | 6940 (15)           | 57.7                | 37               | 177                   | 1.0     |
| 10    | 96-16702A     | 7540 (2)            | 59.1                | 41               | 172                   | 1.0     |
| 11    | IDO 663       | 6840 (18)           | 58.5                | 35               | 176                   | 1.0     |
| 12    | WA 8134       | 7120 (10)           | 58.5                | 39               | 173                   | 1.0     |
| 13    | ARS-Amber     | 7060 (11)           | 57.3                | 36               | 179                   | 1.0     |
| 14    | 970161-3L     | 6550 (29)           | 59.3                | 35               | 180                   | 1.0     |
| 15    | YS 221        | 7330 (5)            | 59.9                | 35               | 176                   | 1.0     |
| 16    | YS 215        | 7540 (1)            | 59.5                | 35               | 177                   | 1.0     |
| 17    | NSA 94-2351A  | 6730 (23)           | 58.1                | 33               | 173                   | 1.0     |
| 18    | LWW 04-4009   | 6690 (25)           | 59.3                | 35               | 183                   | 1.0     |
| 19    | Westbred 528  | 6200 (37)           | 57.9                | 34               | 174                   | 1.0     |
| 20    | WB Junction   | 7210 (8)            | 59.9                | 36               | 169                   | 1.0     |
| 21    | Legion        | 7300 (6)            | 58.4                | 40               | 181                   | 1.0     |
| 22    | AP Legacy     | 7040 (12)           | 59.1                | 37               | 179                   | 1.0     |
| 23    | AP Badger     | 6770 (20)           | 56.5                | 34               | 175                   | 1.0     |
| 24    | SY Ovation    | 6960 (14)           | 59.0                | 34               | 176                   | 1.0     |
| 25    | ORCF-101R     | 6300 (33)           | 57.7                | 34               | 176                   | 1.0     |
| 26    | ORCF-102      | 6270 (34)           | 58.2                | 36               | 176                   | 1.0     |
| 27    | ORCF-103      | 6730 (22)           | 58.2                | 38               | 181                   | 1.8     |
| 28    | ORI2101835    | 5950 (41)           | 57.1                | 38               | 179                   | 1.0     |
| 29    | UICF-Brundage | 6690 (24)           | 57.5                | 32               | 177                   | 1.0     |
| 30    | AP700CL       | 6780 (19)           | 58.8                | 39               | 179                   | 1.0     |
| 31    | WB 1070CL     | 6190 (38)           | 61.3                | 32               | 166                   | 1.0     |
| 32    | WB 1066CL     | 6210 (36)           | 61.3                | 40               | 169                   | 1.0     |
| 33    | Coda          | 6970 (13)           | 59.7                | 39               | 181                   | 1.0     |
| 34    | Cara          | 6220 (35)           | 55.5                | 36               | 185                   | 1.0     |
| 35    | ARS97230-6C   | 6560 (28)           | 58.3                | 34               | 181                   | 1.0     |
| 36    | OR2070608     | 5650 (45)           | 56.4                | 35               | 182                   | 1.0     |
| 37    | OR2070870     | 5870 (43)           | 58.2                | 33               | 180                   | 1.0     |
| 38    | OR2071071     | 6760 (21)           | 55.9                | 34               | 180                   | 1.0     |
| 39    | OR2071628     | 6400 (32)           | 55.7                | 33               | 176                   | 1.0     |
| 40    | OR2071073     | 6470 (30)           | 56.8                | 33               | 181                   | 1.0     |
| 41    | OR2080641     | 7370 (3)            | 56.8                | 35               | 177                   | 1.0     |
| 42    | OR08047P94    | 7200 (9)            | 56.2                | 33               | 179                   | 1.0     |
| 43    | OR2070422     | 6070 (39)           | 56.5                | 34               | 181                   | 1.0     |
| 44    | OR2080764     | 5920 (42)           | 54.1                | 35               | 179                   | 1.0     |
| 45    | OR2080924     | 6930 (16)           | 57.3                | 36               | 179                   | 1.0     |
| 46    | WINCAL 09196  | 4930 (46)           | 61.0                | 32               | 169                   | 1.0     |
|       | MEAN          | 6640                | 58.0                | 35               | 177                   | 1.0     |
|       | CV            | 6.1                 | 0.8                 | 5.4              | 1.1                   | 13.9    |
|       | LSD (.05)     | 570                 | 0.9                 | 3                | 3                     | 0.2     |

Rating scale for diseases (area of flag-1 leaf affected), and lodging: 1 = 0-3%, 2 = 4-14%,  
3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.



## 2010-12 Intermountain Winter Wheat Over Year Yield Summary (lbs/acre)

| Entry | Name          | 2012<br>(2 loc) | 2011-12<br>(3 loc/yr) | 2010-12<br>(5 loc/yr) |
|-------|---------------|-----------------|-----------------------|-----------------------|
| 1     | Stephens      | 6305 (26)       | 7030 (13)             | 6870 (9)              |
| 2     | Madsen        | 6420 (22)       | 6970 (15)             | 6600 (15)             |
| 3     | Tubbs-06      | 6385 (23)       | 7260 (10)             | 7060 (4)              |
| 4     | ORSS-1757     | 5850 (40)       | 6560 (26)             | 6610 (14)             |
| 5     | Goetze        | 6130 (32)       | 6760 (24)             | 6670 (12)             |
| 6     | Skiles        | 6445 (20)       | 6950 (16)             | 6690 (11)             |
| 7     | Mary          | 7285 (1)        | -                     | -                     |
| 8     | Brundage 96   | 6760 (9)        | 7370 (7)              | 7010 (7)              |
| 9     | Bruneau       | 6790 (7)        | 7650 (3)              | 7670 (1)              |
| 10    | 96-16702A     | 7020 (3)        | 7910 (1)              | -                     |
| 11    | IDO 663       | 6840 (5)        | 7610 (5)              | -                     |
| 12    | WA 8134       | 6635 (14)       | -                     | -                     |
| 13    | ARS-Amber     | 6710 (11)       | -                     | -                     |
| 14    | 970161-3L     | 6060 (34)       | -                     | -                     |
| 15    | YS 221        | 7145 (2)        | -                     | -                     |
| 16    | YS 215        | 6520 (19)       | -                     | -                     |
| 17    | NSA 94-2351A  | 6570 (16)       | -                     | -                     |
| 18    | LWW 04-4009   | 6060 (34)       | -                     | -                     |
| 19    | Westbred 528  | 6085 (33)       | 7350 (8)              | 6790 (10)             |
| 20    | WB Junction   | 6835 (6)        | -                     | -                     |
| 21    | Legion        | 6700 (12)       | 7670 (2)              | 7040 (5)              |
| 22    | AP Legacy     | 6165 (31)       | 7020 (14)             | 7130 (2)              |
| 23    | AP Badger     | 6790 (7)        | -                     | -                     |
| 24    | SY Ovation    | 6660 (13)       | -                     | -                     |
| 25    | ORCF-101R     | 6225 (30)       | 6870 (18)             | 6490 (19)             |
| 26    | ORCF-102      | 5935 (38)       | 6730 (25)             | 6440 (20)             |
| 27    | ORCF-103      | 5895 (39)       | 6850 (19)             | 6560 (16)             |
| 28    | ORI2101835    | 5705 (44)       | 6510 (27)             | -                     |
| 29    | UICF-Brundage | 6440 (21)       | -                     | -                     |
| 30    | AP700CL       | 6555 (17)       | 7250 (11)             | 7110 (3)              |
| 31    | WB 1070CL     | 6550 (18)       | -                     | -                     |
| 32    | WB 1066CL     | 5670 (45)       | -                     | -                     |
| 33    | Coda          | 6260 (28)       | 6810 (22)             | 6550 (17)             |
| 34    | Cara          | 6370 (25)       | 6850 (19)             | 6310 (21)             |
| 35    | ARS97230-6C   | 6305 (26)       | 7050 (12)             | -                     |
| 36    | OR2070608     | 6240 (29)       | 6830 (21)             | 6880 (8)              |
| 37    | OR2070870     | 5750 (42)       | 6450 (28)             | 6540 (18)             |
| 38    | OR2071071     | 6605 (15)       | 7350 (8)              | 7030 (6)              |
| 39    | OR2071628     | 6000 (37)       | 6920 (17)             | 6660 (13)             |
| 40    | OR2071073     | 5750 (42)       | 6800 (23)             | -                     |
| 41    | OR2080641     | 6760 (9)        | 7620 (4)              | -                     |
| 42    | OR08047P94    | 6925 (4)        | 7590 (6)              | -                     |
| 43    | OR2070422     | 5785 (41)       | -                     | -                     |
| 44    | OR2080764     | 6040 (36)       | -                     | -                     |
| 45    | OR2080924     | 6385 (23)       | -                     | -                     |
| 46    | WINCAL 09196  | 4855 (46)       | -                     | -                     |
|       | MEAN          | 6350            | 7080                  | 6800                  |

Numbers in parentheses indicate relative rank in column.

2012 UC Regional Durum Wheat Entry List

| Entry                 | Name          | Parentage                           | Source        | Grown At                      |
|-----------------------|---------------|-------------------------------------|---------------|-------------------------------|
| <u>CULTIVARS</u>      |               |                                     |               |                               |
| 878                   | DURAKING      | MSFRS QUALITY DESERT DURUM POP      | WWW           | ALL                           |
| 1166                  | CROWN         | MSFRS QUALITY DESERT DURUM POP      | WWW           | ALL                           |
| 1210                  | PLATINUM      | MSFRS QUALITY DESERT DURUM POP      | WWW           | ALL                           |
| 1211                  | TOPPER        | MSFRS DURUM QUALITY POP             | WWW           | ALL                           |
| 1215                  | ORITA         |                                     | WB (MONSANTO) | IV                            |
| 1440                  | HELIOS        | MSFRS pop. Matt $\alpha$ male       | APB           | ALL                           |
| 1473                  | Q-MAX         | MSFRS DESERT DURUM QUALITY POP      | WWW           | ALL                           |
| 1479                  | HAVASU        |                                     | WB (MONSANTO) | IV                            |
| 1582                  | MAESTRALE     |                                     | ALLSTAR       | IMPERIAL, FRESNO, KINGS, KERN |
| 1583                  | SARAGOLLA     |                                     | ALLSTAR       | IMPERIAL, FRESNO, KINGS, KERN |
| 1607                  | WB-MEAD       |                                     | WB (MONSANTO) | IV                            |
| <u>ADVANCED LINES</u> |               |                                     |               |                               |
| 1640                  | APB D1-2      | D94-1 x MSFRS Population Az         | APB           | ALL                           |
| 1654                  | WB YU806-93   |                                     | WB (MONSANTO) | IV                            |
| 1677                  | RS001         | 50% DESERT KING HPC // 50% UC1585   | RUBIN         | IV                            |
| 1678                  | RS002         | 25% DESERT KING HPC // 75% UC1585   | RUBIN         | IV                            |
| 1690                  | UC 1690       | WWW D6523/UC1308                    | UC            | ALL                           |
| 1691                  | UC 1691       | UC1406/UC1308                       | UC            | ALL                           |
| 1695                  | WWW NDPRD3D13 | MSFRS - DDSRR4 SELECTION            | WWW           | ALL                           |
| 1696                  | WWW UT07412   | MSFRS - UTM SELECTION               | WWW           | ALL                           |
| 1697                  | KIKO NICK     |                                     | LIMAGRAIN     | ALL                           |
| 1698                  | 05E2844       |                                     | LIMAGRAIN     | ALL                           |
| 1709                  | RS003         | 50% Desert King/50% Desert King HP+ | RUBIN         | IV                            |
| 1717                  | UC 1717       | MOHAWK/UC1375                       | UC            | ALL                           |
| 1718                  | UC 1718       | UC1375/ORITA                        | UC            | ALL                           |
| 1719                  | UC 1719       | UC1375/UC1308                       | UC            | ALL                           |
| 1720                  | IMHOTEP       |                                     | LIMAGRAIN     | ALL                           |
| 1721                  | ALIROR        |                                     | LIMAGRAIN     | ALL                           |
| 1722                  | 06D2410       |                                     | LIMAGRAIN     | ALL                           |
| 1733                  | WWW D2517     | MSFRS - DRR6 SELECTION              | WWW           | ALL                           |
| 1735                  | APB CP-1      |                                     | APB           | ALL                           |
| 1736                  | APB IM-1      |                                     | APB           | ALL                           |

31 ENTRIES

SOURCE: ALLSTAR = All-Star Seed Co.; APB = Arizona Plant Breeders; RSI = Resource Seeds, Inc.;  
UCD = University of California Davis; WB = Westbred, LLC; WWW = World Wide Wheat;  
LIMAGRAIN = Limagrain Seeds; RUBIN = Rubin Seeds, LLC

## 2012 Davis Durum Wheat Trial

| Entry                 | Name          | Yield<br>(lb/acre) | Test Wt<br>(lb/bu) | 1000             | Plant Ht<br>(in) | Days To |          | Lodging | Shatter | Stripe<br>Rust |      | BYDV<br>5/4 | Black<br>Point | Protein<br>% |
|-----------------------|---------------|--------------------|--------------------|------------------|------------------|---------|----------|---------|---------|----------------|------|-------------|----------------|--------------|
|                       |               |                    |                    | Kernel Wt<br>(g) |                  | Heading | Maturity | Harvest |         | 5/4            | 5/16 |             |                |              |
| <u>CULTIVARS</u>      |               |                    |                    |                  |                  |         |          |         |         |                |      |             |                |              |
| 878                   | DURAKING      | 5750 (6)           | 63.5               | 48.2             | 33               | 47      | 86       | 1.0     | 1.0     | 1.0            | 1.0  | 1.5         | 1.0            | 9.00         |
| 1166                  | CROWN         | 6050 (3)           | 62.0               | 53.3             | 38               | 50      | 91       | 1.0     | 1.0     | 1.0            | 1.0  | 2.5         | 1.0            | 8.11         |
| 1210                  | PLATINUM      | 5320 (13)          | 63.4               | 49.0             | 32               | 42      | 81       | 1.0     | 1.0     | 1.0            | 1.0  | 1.0         | 1.0            | 9.33         |
| 1211                  | TOPPER        | 5940 (4)           | 64.5               | 46.7             | 38               | 48      | 85       | 1.3     | 1.3     | 1.3            | 1.5  | 2.3         | 1.0            | 9.53         |
| 1440                  | HELIOS        | 5470 (11)          | 63.8               | 51.0             | 38               | 39      | 84       | 1.5     | 1.0     | 1.3            | 1.3  | 1.3         | 1.5            | 8.43         |
| 1473                  | Q-MAX         | 6350 (2)           | 61.5               | 53.0             | 40               | 51      | 90       | 1.0     | 1.0     | 1.0            | 1.0  | 1.8         | 1.0            | 7.82         |
| <u>ADVANCED LINES</u> |               |                    |                    |                  |                  |         |          |         |         |                |      |             |                |              |
| 1640                  | APB D1-2      | 4290 (20)          | 62.4               | 64.1             | 33               | 45      | 84       | 1.0     | 1.0     | 1.0            | 1.0  | 3.0         | 1.0            | 10.23        |
| 1690                  | UC 1690       | 5510 (10)          | 63.8               | 61.3             | 37               | 49      | 84       | 1.0     | 1.0     | 1.0            | 1.0  | 2.0         | 1.0            | 8.69         |
| 1691                  | UC 1691       | 4660 (19)          | 62.0               | 49.9             | 36               | 47      | 83       | 1.0     | 1.0     | 1.0            | 1.0  | 1.5         | 1.0            | 10.78        |
| 1695                  | WWW NDPRD3D13 | 5720 (7)           | 63.1               | 52.5             | 36               | 50      | 88       | 1.0     | 1.0     | 1.0            | 1.0  | 1.5         | 1.0            | 8.54         |
| 1696                  | WWW UT07412   | 5000 (16)          | 63.2               | 59.8             | 34               | 40      | 84       | 1.3     | 1.0     | 1.0            | 1.3  | 2.0         | 1.5            | 8.76         |
| 1697                  | KIKO NICK     | 5440 (12)          | 62.8               | 57.8             | 36               | 48      | 87       | 1.0     | 1.0     | 1.0            | 1.0  | 1.8         | 1.0            | 9.79         |
| 1698                  | 05E2844       | 5680 (8)           | 63.9               | 54.8             | 35               | 47      | 85       | 1.0     | 1.0     | 1.0            | 1.3  | 2.5         | 1.0            | 9.23         |
| 1717                  | UC 1717       | 5310 (14)          | 63.1               | 57.2             | 39               | 48      | 85       | 1.0     | 1.3     | 1.0            | 1.0  | 1.3         | 1.5            | 10.37        |
| 1718                  | UC 1718       | 5190 (15)          | 63.7               | 52.3             | 36               | 48      | 86       | 1.0     | 1.0     | 1.0            | 1.0  | 1.8         | 1.0            | 9.13         |
| 1719                  | UC 1719       | 4710 (18)          | 64.6               | 55.8             | 39               | 45      | 86       | 1.0     | 1.5     | 1.0            | 1.0  | 2.8         | 1.5            | 8.54         |
| 1720                  | IMHOTEP       | 5530 (9)           | 63.9               | 50.4             | 37               | 48      | 85       | 1.3     | 1.0     | 1.5            | 2.5  | 1.3         | 1.0            | 9.62         |
| 1721                  | ALIROR        | 4850 (17)          | 63.0               | 60.0             | 37               | 48      | 88       | 1.0     | 1.0     | 1.0            | 1.0  | 1.8         | 1.5            | 9.31         |
| 1722                  | 06D2410       | 6550 (1)           | 62.7               | 50.0             | 41               | 57      | 95       | 1.3     | 1.0     | 1.0            | 1.0  | 1.0         | 1.0            | 7.03         |
| 1733                  | WWW D2517     | 5770 (5)           | 64.2               | 49.7             | 34               | 46      | 85       | 1.0     | 1.0     | 1.0            | 1.0  | 1.3         | 1.0            | 7.54         |
| MEAN                  |               | 5450               | 63.3               | 53.8             | 36               | 47      | 86       | 1.1     | 1.1     | 1.1            | 1.1  | 1.8         | 1.1            | 8.99         |
| CV                    |               | 8.6                | 0.5                | 2.2              | 3.1              | 3.9     | 1.9      | 23.2    | 19.5    | 19.1           | 31.9 | 39.2        | 30.8           |              |
| LSD (.05)             |               | 660                | 0.6                | 2.5              | 2                | 3       | 2        | ns      | ns      | ns             | 0.5  | 1.0         | ns             |              |

Rating scale for diseases (area of flag-1 leaf affected), lodging, shatter and black point:

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2012 Fresno Durum Wheat Trial

| Entry                 | Name          | Yield<br>(lb/acre) | Test Wt<br>(lb/bu) | 1000             |                  | Lodging<br>Harvest<br>6/18 | BYDV<br>5/21 | Stripe<br>Rust<br>5/21 | Powdery<br>Mildew<br>5/21 | Protein<br>% |
|-----------------------|---------------|--------------------|--------------------|------------------|------------------|----------------------------|--------------|------------------------|---------------------------|--------------|
|                       |               |                    |                    | Kernel Wt<br>(g) | Plant Ht<br>(in) |                            |              |                        |                           |              |
| <u>CULTIVARS</u>      |               |                    |                    |                  |                  |                            |              |                        |                           |              |
| 878                   | DURAKING      | 7050 (2)           | 63.6               | 48.6             | 37               | 1.3                        | 1.3          | 1.3                    | 1.8                       | 10.87        |
| 1166                  | CROWN         | 5800 (19)          | 60.9               | 49.7             | 42               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 11.86        |
| 1210                  | PLATINUM      | 6150 (14)          | 63.1               | 42.9             | 34               | 1.0                        | 1.0          | 1.0                    | 1.5                       | 10.87        |
| 1211                  | TOPPER        | 6280 (10)          | 64.4               | 42.8             | 39               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 10.87        |
| 1440                  | HELIOS        | 6420 (6)           | 63.5               | 48.7             | 39               | 1.3                        | 1.0          | 1.0                    | 1.0                       | 11.04        |
| 1473                  | Q-MAX         | 5700 (21)          | 60.7               | 48.7             | 43               | 1.0                        | 1.0          | 1.0                    | 1.3                       | 11.82        |
| 1582                  | MAESTRALE     | 4940 (24)          | 63.9               | 46.0             | 40               | 2.0                        | 1.3          | 1.0                    | 1.0                       | 11.22        |
| 1583                  | SARAGOLLA     | 5780 (20)          | 63.6               | 46.9             | 39               | 1.5                        | 1.3          | 1.3                    | 1.0                       | 10.84        |
| <u>ADVANCED LINES</u> |               |                    |                    |                  |                  |                            |              |                        |                           |              |
| 1640                  | APB D1-2      | 6320 (9)           | 62.6               | 62.1             | 35               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 12.42        |
| 1690                  | UC 1690       | 6150 (13)          | 63.6               | 56.9             | 38               | 1.0                        | 1.8          | 1.0                    | 1.0                       | 11.71        |
| 1691                  | UC 1691       | 5990 (16)          | 63.5               | 49.1             | 38               | 1.5                        | 1.8          | 1.0                    | 1.0                       | 12.60        |
| 1695                  | WWW NDPRD3D13 | 6000 (15)          | 63.0               | 47.5             | 37               | 1.0                        | 1.3          | 1.0                    | 1.0                       | 11.01        |
| 1696                  | WWW UT07412   | 5090 (23)          | 62.1               | 55.3             | 36               | 1.3                        | 1.5          | 1.3                    | 1.0                       | 11.03        |
| 1697                  | KIKO NICK     | 7050 (1)           | 63.6               | 57.5             | 38               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 11.55        |
| 1698                  | 05E2844       | 6390 (7)           | 63.9               | 49.9             | 38               | 1.8                        | 1.3          | 1.0                    | 1.0                       | 10.32        |
| 1717                  | UC 1717       | 6620 (4)           | 64.0               | 54.6             | 39               | 1.3                        | 1.3          | 1.0                    | 1.0                       | 11.53        |
| 1718                  | UC 1718       | 6180 (12)          | 64.1               | 50.9             | 38               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 11.31        |
| 1719                  | UC 1719       | 6620 (5)           | 65.0               | 54.3             | 39               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 11.93        |
| 1720                  | IMHOTEP       | 6850 (3)           | 64.9               | 50.7             | 42               | 1.5                        | 1.0          | 1.3                    | 1.0                       | 10.93        |
| 1721                  | ALIROR        | 6340 (8)           | 64.8               | 58.6             | 38               | 1.0                        | 1.3          | 1.0                    | 1.0                       | 10.60        |
| 1722                  | 06D2410       | 6180 (11)          | 62.8               | 44.5             | 39               | 1.0                        | 1.0          | 1.0                    | 1.0                       | 11.31        |
| 1733                  | WWW D2517     | 5990 (17)          | 64.1               | 47.0             | 37               | 1.8                        | 1.0          | 1.0                    | 1.0                       | 10.41        |
| 1735                  | APB CP-1      | 5230 (22)          | 63.7               | 47.0             | 43               | 1.6                        | 1.3          | 1.0                    | 1.0                       | 10.12        |
| 1736                  | APB IM-1      | 5830 (18)          | 63.5               | 49.6             | 37               | 1.0                        | 1.8          | 1.0                    | 1.0                       | 10.21        |
|                       | MEAN          | 6110               | 63.5               | 50.7             | 38               | 1.2                        | 1.2          | 1.0                    | 1.1                       | 11.18        |
|                       | CV            | 8.4                | 0.4                | 2.6              | 5                | 27.2                       | 44.8         | 19.7                   | 28.8                      |              |
|                       | LSD (.05)     | 720                | 0.4                | 2.3              | 4                | 0.5                        | ns           | ns                     | ns                        |              |

Rating scale for diseases (area of flag-1 leaf affected) and lodging:

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2012 Kings Durum Wheat Trial

| Entry                 | Name          | Yield<br>(lb/acre) | #<br>Reps | Test Wt<br>(lb/bu) | 1000             | Plant Ht<br>(in) | Lodging       |         | BYDV<br>4/30 | Black<br>Point | Protein<br>% |
|-----------------------|---------------|--------------------|-----------|--------------------|------------------|------------------|---------------|---------|--------------|----------------|--------------|
|                       |               |                    |           |                    | Kernel Wt<br>(g) |                  | Soft<br>Dough | Harvest |              |                |              |
| <u>CULTIVARS</u>      |               |                    |           |                    |                  |                  |               |         |              |                |              |
| 878                   | DURAKING      | 6740 (11)          | 3         | 61.6               | 42.8             | 34               | 1.0           | 1.3     | 1.3          | 1.0            | 12.69        |
| 1166                  | CROWN         | 6380 (13)          | 4         | 59.4               | 45.6             | 40               | 1.0           | 1.3     | 1.0          | 1.0            | 13.28        |
| 1210                  | PLATINUM      | 6120 (18)          | 4         | 61.7               | 43.0             | 31               | 1.0           | 1.5     | 2.0          | 1.5            | 12.99        |
| 1211                  | TOPPER        | 7860 (1)           | 4         | 63.8               | 43.4             | 36               | 1.0           | 1.3     | 1.3          | 1.5            | 12.36        |
| 1375                  | DESERT KING*  | 5870 (23)          | 3         |                    | -                | 32               | 1.0           | 1.0     | 1.0          | -              | -            |
| 1440                  | HELIOS        | 6790 (10)          | 4         | 62.5               | 46.1             | 35               | 1.0           | 2.5     | 1.0          | 1.5            | 12.90        |
| 1473                  | Q-MAX         | 6180 (17)          | 4         | 58.8               | 46.0             | 39               | 1.0           | 1.8     | 1.8          | 1.0            | 13.67        |
| 1582                  | MAESTRALE     | 5960 (22)          | 3         | 63.0               | 42.6             | 39               | 1.0           | 2.5     | 1.5          | 1.0            | 12.50        |
| 1583                  | SARAGOLLA     | 5640 (24)          | 4         | 62.9               | 44.8             | 34               | 1.0           | 1.5     | 1.3          | 1.0            | 13.40        |
| 1585                  | TIPAI*        | 6100 (19)          | 3         |                    | -                | 36               |               | 2.5     | 1.8          | -              | -            |
| <u>ADVANCED LINES</u> |               |                    |           |                    |                  |                  |               |         |              |                |              |
| 1640                  | APB D1-2      | 6360 (14)          | 4         | 61.1               | 56.1             | 32               | 1.0           | 2.3     | 1.0          | 1.0            | 13.38        |
| 1690                  | UC 1690       | 6850 (9)           | 4         | 62.4               | 50.7             | 35               | 1.0           | 1.0     | 1.5          | 1.0            | 13.11        |
| 1691                  | UC 1691       | 6990 (8)           | 4         | 62.4               | 47.9             | 34               | 1.0           | 2.3     | 1.3          | 1.0            | 14.00        |
| 1695                  | WWW NDPRD3D13 | 6420 (12)          | 4         | 61.4               | 40.2             | 34               | 1.0           | 1.5     | 1.3          | 1.0            | 12.62        |
| 1696                  | WWW UT07412   | 5140 (26)          | 4         | 60.0               | 49.2             | 33               | 1.0           | 2.3     | 2.0          | 2.5            | 13.28        |
| 1697                  | KIKO NICK     | 7250 (4)           | 4         | 62.7               | 27.1             | 34               | 1.0           | 2.5     | 1.0          | 1.0            | 12.55        |
| 1698                  | 05E2844       | 6350 (15)          | 4         | 62.9               | 47.6             | 34               | 1.0           | 2.3     | 1.0          | 1.0            | 11.74        |
| 1717                  | UC 1717       | 7160 (6)           | 4         | 63.2               | 49.2             | 36               | 1.0           | 1.8     | 1.0          | 1.0            | 13.49        |
| 1718                  | UC 1718       | 7220 (5)           | 4         | 63.3               | 50.6             | 37               | 1.0           | 1.5     | 1.0          | 1.0            | 12.91        |
| 1719                  | UC 1719       | 7280 (3)           | 4         | 63.5               | 50.5             | 37               | 1.0           | 1.8     | 1.3          | 1.0            | 13.07        |
| 1720                  | IMHOTEP       | 7080 (7)           | 4         | 64.7               | 49.0             | 37               | 1.0           | 2.8     | 1.0          | 1.0            | 11.92        |
| 1721                  | ALIROR        | 6080 (20)          | 4         | 63.5               | 55.0             | 35               | 1.0           | 1.5     | 1.3          | 2.5            | 12.96        |
| 1722                  | 06D2410       | 6010 (21)          | 4         | 61.0               | 40.1             | 40               | 1.8           | 4.8     | 1.0          | 1.0            | 13.19        |
| 1733                  | WWW D2517     | 6350 (15)          | 4         | 62.0               | 41.8             | 32               | 1.0           | 1.8     | 1.0          | 1.5            | 13.21        |
| 1735                  | APB CP-1      | 5250 (25)          | 3         | 62.9               | 42.7             | 39               | 1.0           | 1.8     | 1.0          | 1.0            | 12.91        |
| 1736                  | APB IM-1      | 7570 (2)           | 1         | 62.0               | 42.8             | 35               | 1.0           | 1.8     | 1.3          | 1.0            | 12.89        |
| MEAN                  |               | 6510               |           | 62.2               | 45.6             | 35               | 1.0           | 1.9     | 1.2          | 1.2            | 12.96        |
| CV                    |               | 12.1               |           | 0.8                | 16.3             | 4.8              | 29.7          | 41.2    | 39.5         | 25.9           |              |
| LSD (.05)             |               | 1120               |           | 1.0                | ns               | 3                | ns            | 1.1     | ns           | 0.6            |              |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and black point:

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms

Numbers in parentheses indicate relative rank in column

Protein is expressed at 12% moisture.

\*Data was used from adjacent trials under the exact same conditions

2012 Kern Durum Wheat Trial

| Entry                 | Name          | Yield<br>(lb/acre) | Test Wt<br>(lb/bu) | Plant Ht<br>(in) | Lodging | Lodging<br>Harvest | BYDV | Protein<br>% |
|-----------------------|---------------|--------------------|--------------------|------------------|---------|--------------------|------|--------------|
| <u>CULTIVARS</u>      |               |                    |                    |                  |         |                    |      |              |
| 878                   | DURAKING      | 5760 (3)           | 61.1               | 35               | 1.8     | 6.8                | 1.0  | 11.80        |
| 1166                  | CROWN         | 4650 (18)          | 56.2               | 35               | 2.8     | 7.8                | 1.5  | 12.82        |
| 1210                  | PLATINUM      | 5050 (10)          | 62.6               | 31               | 1       | 6.5                | 1.3  | 11.56        |
| 1211                  | TOPPER        | 5480 (8)           | 62.3               | 37               | 3.8     | 7.5                | 2.0  | 10.64        |
| 1440                  | HELIOS        | 5740 (4)           | 60.3               | 34               | 2.5     | 7.3                | 1.0  | 11.43        |
| 1473                  | Q-MAX         | 4720 (16)          | 57.9               | 33               | 3.5     | 7.8                | 1.0  | 12.47        |
| 1582                  | MAESTRALE     | 4770 (15)          | 61.2               | 40               | 7.8     | 8.0                | 1.0  | 11.43        |
| 1583                  | SARAGOLLA     | 5490 (7)           | 62.4               | 36               | 3.5     | 7.8                | 1.5  | 11.42        |
| <u>ADVANCED LINES</u> |               |                    |                    |                  |         |                    |      |              |
| 1640                  | APB D1-2      | 4340 (21)          | 60.8               | 33               | 1.3     | 6.0                | 1.0  | 13.58        |
| 1690                  | UC 1690       | 6080 (1)           | 62.9               | 34               | 2       | 7.3                | 1.8  | 12.40        |
| 1691                  | UC 1691       | 4920 (12)          | 62.0               | 35               | 7.3     | 7.8                | 1.3  | 13.60        |
| 1695                  | WWW NDPRD3D13 | 4830 (13)          | 61.5               | 29               | 1       | 4.3                | 1.0  | 12.12        |
| 1696                  | WWW UT07412   | 4600 (19)          | 60.5               | 32               | 1.5     | 7.3                | 1.3  | 12.19        |
| 1697                  | KIKO NICK     | 4680 (17)          | 60.1               | 35               | 7.3     | 8.0                | 1.0  | 12.52        |
| 1698                  | 05E2844       | 4080 (22)          | 60.9               | 33               | 3       | 8.0                | 1.0  | 10.91        |
| 1717                  | UC 1717       | 5580 (5)           | 62.0               | 37               | 5.8     | 7.8                | 1.3  | 12.94        |
| 1718                  | UC 1718       | 4780 (14)          | 62.5               | 38               | 5.3     | 7.8                | 1.3  | 11.29        |
| 1719                  | UC 1719       | 4960 (11)          | 62.5               | 40               | 7.3     | 8.0                | 1.0  | 12.13        |
| 1720                  | IMHOTEP       | 5120 (9)           | 62.1               | 35               | 7.5     | 8.0                | 1.3  | 11.07        |
| 1721                  | ALIROR        | 4550 (20)          | 62.9               | 35               | 1.5     | 6.8                | 1.5  | 11.11        |
| 1722                  | 06D2410       | 3790 (23)          | 57.4               | 37               | 6.5     | 7.5                | 1.5  | 13.16        |
| 1733                  | WWW D2517     | 3500 (24)          | 62.5               | 31               | 1       | 3.8                | 1.0  | 11.73        |
| 1735                  | APB CP-1      | 5540 (6)           | 61.8               | 38               | 7       | 7.8                | 1.0  | 11.99        |
| 1736                  | APB IM-1      | 6030 (2)           | 62.6               | 38               | 2.5     | 7.8                | 1.8  | 10.43        |
| MEAN                  |               | 4960               | 61.2               | 35               | 3.9     | 7.2                | 1.3  | 11.95        |
| CV                    |               | 12.7               | 1.1                | 5.6              | 26.8    | 11.7               | 37.6 |              |
| LSD (.05)             |               | 890                | 1.3                | 4                | 1.5     | 1.2                | ns   |              |

Rating scale for diseases (area of flag-1 leaf affected) and lodging:

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

## 2012 Imperial Durum Wheat Trial

| Entry                 | Name          | Yield<br>(lb/acre) | Test Wt<br>(lb/bu) | 1000             | Plant Ht<br>(in) | Days To    |          | Lodging<br>Harvest | Protein<br>% |
|-----------------------|---------------|--------------------|--------------------|------------------|------------------|------------|----------|--------------------|--------------|
|                       |               |                    |                    | Kernel Wt<br>(g) |                  | Heading    | Maturity |                    |              |
|                       |               |                    |                    |                  |                  | (From 1/1) |          |                    |              |
| <u>CULTIVARS</u>      |               |                    |                    |                  |                  |            |          |                    |              |
| 878                   | DURAKING      | 7850 (3)           | 60.5               | 34.7             | 32               | 82         | 129      | 1.0                | 14.09        |
| 1166                  | CROWN         | 6800 (29)          | 58.3               | 38.3             | 34               | 86         | 132      | 1.3                | 14.76        |
| 1210                  | PLATINUM      | 6680 (30)          | 60.0               | 38.5             | 29               | 82         | 127      | 2.0                | 14.13        |
| 1211                  | TOPPER        | 7760 (4)           | 62.0               | 36.6             | 33               | 86         | 131      | 1.0                | 13.44        |
| 1215                  | ORITA         | 7570 (10)          | 60.0               | 44.1             | 32               | 84         | 130      | 1.0                | 14.67        |
| 1375                  | DESERT KING*  | 7630 (8)           | 60.7               | -                | 33               | 86         | 133      | 1.0                | -            |
| 1440                  | HELIOS        | 7490 (13)          | 62.0               | 43.7             | 34               | 78         | 128      | 1.5                | 14.04        |
| 1473                  | Q-MAX         | 7640 (7)           | 59.0               | 34.0             | 35               | 85         | 132      | 1.0                | 13.80        |
| 1479                  | HAVASU        | 7190 (20)          | 63.0               | 44.6             | 33               | 79         | 127      | 1.8                | 14.19        |
| 1582                  | MAESTRALE     | 6860 (28)          | 61.5               | 35.2             | 36               | 85         | 128      | 1.8                | 13.79        |
| 1583                  | SARAGOLLA     | 7140 (23)          | 62.8               | 38.2             | 34               | 85         | 131      | 2.0                | 12.87        |
| 1607                  | WB-MEAD       | 7490 (13)          | 61.0               | 37.2             | 33               | 84         | 132      | 1.0                | 14.38        |
| 1585                  | TIPAI*        | 7660 (6)           | 62.7               | -                | 37               | 85         | 132      | 1.7                | -            |
| <u>ADVANCED LINES</u> |               |                    |                    |                  |                  |            |          |                    |              |
| 1640                  | APB D1-2      | 7320 (18)          | 60.0               | 47.9             | 32               | 83         | 130      | 1.0                | 14.36        |
| 1654                  | WB YU806-93   | 7180 (21)          | 62.0               | 44.2             | 35               | 82         | 128      | 1.8                | 14.23        |
| 1677                  | RS001         | 7130 (24)          | 61.8               | 42.8             | 35               | 85         | 128      | 1.3                | 14.69        |
| 1678                  | RS002         | 7420 (16)          | 61.8               | 45.2             | 34               | 85         | 129      | 1.8                | 14.71        |
| 1690                  | UC 1690       | 7600 (9)           | 62.0               | 43.8             | 33               | 86         | 131      | 1.0                | 14.14        |
| 1691                  | UC 1691       | 7010 (26)          | 62.0               | 45.1             | 34               | 85         | 127      | 2.5                | 13.94        |
| 1695                  | WWW NDPRD3D13 | 7180 (21)          | 61.3               | 40.7             | 32               | 85         | 131      | 1.0                | 14.69        |
| 1696                  | WWW UT07412   | 6670 (31)          | 61.3               | 50.9             | 32               | 80         | 129      | 1.5                | 13.77        |
| 1697                  | KIKO NICK     | 8310 (1)           | 61.8               | 47.3             | 35               | 83         | 130      | 2.0                | 13.19        |
| 1698                  | 05E2844       | 7750 (5)           | 62.3               | 43.8             | 34               | 85         | 129      | 1.0                | 12.88        |
| 1709                  | RS003         | 7450 (15)          | 58.3               | 34.2             | 33               | 86         | 132      | 1.0                | 14.64        |
| 1717                  | UC 1717       | 7550 (11)          | 61.3               | 37.4             | 34               | 86         | 130      | 1.0                | 14.01        |
| 1718                  | UC 1718       | 7310 (19)          | 60.8               | 38.3             | 32               | 86         | 132      | 1.0                | 14.40        |
| 1719                  | UC 1719       | 7080 (25)          | 62.3               | 43.8             | 34               | 86         | 131      | 1.8                | 14.10        |
| 1720                  | IMHOTEP       | 6870 (27)          | 63.3               | 44.2             | 36               | 81         | 127      | 3.0                | 12.93        |
| 1721                  | ALIROR        | 8200 (2)           | 63.8               | 51.3             | 35               | 85         | 131      | 1.8                | 13.15        |
| 1722                  | 06D2410       | 6250 (33)          | 57.0               | 35.7             | 33               | 100        | 140      | 3.3                | 16.19        |
| 1733                  | WWW D2517     | 6480 (32)          | 61.0               | 36.6             | 32               | 81         | 128      | 1.5                | 13.70        |
| 1735                  | APB CP-1      | 7390 (17)          | 61.0               | 48.4             | 37               | 87         | 131      | 1.3                | 13.49        |
| 1736                  | APB IM-1      | 7550 (11)          | 62.0               | 37.9             | 33               | 86         | 131      | 1.0                | 13.55        |
| MEAN                  |               | 7300               | 61.2               | 41.4             | 33               | 84         | 130      | 1.5                | 14.03        |
| CV                    |               | 5.5                | 0.9                |                  | 1.5              | 1.1        | 0.8      | 40.5               |              |
| LSD (.05)             |               | 560                | 0.8                |                  | 1.6              | 1          | 1        | 0.9                |              |

Rating scale for diseases (area of flag-1 leaf affected) and lodging:

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

\*Data is from an adjacent trial under the exact same conditions

2012 Durum Wheat Grain Protein Summary (%)

| Entry                 | Name          | Imperial<br>Valley<br>(1 loc) | Central Valley  |             |       |        |       |
|-----------------------|---------------|-------------------------------|-----------------|-------------|-------|--------|-------|
|                       |               |                               | Mean<br>(4 loc) | UC<br>Davis | Kings | Fresno | Kern  |
| <u>CULTIVARS</u>      |               |                               |                 |             |       |        |       |
| 878                   | DURAKING      | 14.09 (16)                    | 11.09 (17)      | 9.00        | 12.69 | 10.87  | 11.80 |
| 1166                  | CROWN         | 14.76 (2)                     | 11.52 (8)       | 8.11        | 13.28 | 11.86  | 12.82 |
| 1210                  | PLATINUM      | 14.13 (14)                    | 11.19 (13)      | 9.33        | 12.99 | 10.87  | 11.56 |
| 1211                  | TOPPER        | 13.44 (26)                    | 10.85 (22)      | 9.53        | 12.36 | 10.87  | 10.64 |
| 1215                  | ORITA         | 14.67 (6)                     | -               | -           | -     | -      | -     |
| 1440                  | HELIOS        | 14.04 (17)                    | 10.95 (20)      | 8.43        | 12.90 | 11.04  | 11.43 |
| 1473                  | Q-MAX         | 13.80 (20)                    | 11.45 (10)      | 7.82        | 13.67 | 11.82  | 12.47 |
| 1479                  | HAVASU        | 14.19 (12)                    | -               | -           | -     | -      | -     |
| 1582                  | MAESTRALE     | 13.79 (21)                    | 11.72 (5)       | -           | 12.50 | 11.22  | 11.43 |
| 1583                  | SARAGOLLA     | 12.87 (31)                    | 11.89 (4)       | -           | 13.40 | 10.84  | 11.42 |
| 1607                  | WB-MEAD       | 14.38 (9)                     | -               | -           | -     | -      | -     |
| <u>ADVANCED LINES</u> |               |                               |                 |             |       |        |       |
| 1640                  | APB D1-2      | 14.36 (10)                    | 12.40 (2)       | 10.23       | 13.38 | 12.42  | 13.58 |
| 1654                  | WB YU806-93   | 14.23 (11)                    | -               | -           | -     | -      | -     |
| 1677                  | RS001         | 14.69 (4)                     | -               | -           | -     | -      | -     |
| 1678                  | RS002         | 14.71 (3)                     | -               | -           | -     | -      | -     |
| 1690                  | UC 1690       | 14.14 (13)                    | 11.48 (9)       | 8.69        | 13.11 | 11.71  | 12.40 |
| 1691                  | UC 1691       | 13.94 (19)                    | 12.75 (1)       | 10.78       | 14.00 | 12.60  | 13.60 |
| 1695                  | WWW NDPRD3D13 | 14.69 (4)                     | 11.07 (18)      | 8.54        | 12.62 | 11.01  | 12.12 |
| 1696                  | WWW UT07412   | 13.77 (22)                    | 11.32 (12)      | 8.76        | 13.28 | 11.03  | 12.19 |
| 1697                  | KIKO NICK     | 13.19 (27)                    | 11.60 (7)       | 9.79        | 12.55 | 11.55  | 12.52 |
| 1698                  | 05E2844       | 12.88 (30)                    | 10.55 (24)      | 9.23        | 11.74 | 10.32  | 10.91 |
| 1709                  | RS003         | 14.64 (7)                     | -               | -           | -     | -      | -     |
| 1717                  | UC 1717       | 14.01 (18)                    | 12.08 (3)       | 10.37       | 13.49 | 11.53  | 12.94 |
| 1718                  | UC 1718       | 14.40 (8)                     | 11.16 (16)      | 9.13        | 12.91 | 11.31  | 11.29 |
| 1719                  | UC 1719       | 14.10 (15)                    | 11.42 (11)      | 8.54        | 13.07 | 11.93  | 12.13 |
| 1720                  | IMHOTEP       | 12.93 (29)                    | 10.89 (21)      | 9.62        | 11.92 | 10.93  | 11.07 |
| 1721                  | ALIROR        | 13.15 (28)                    | 11.00 (19)      | 9.31        | 12.96 | 10.60  | 11.11 |
| 1722                  | 06D2410       | 16.19 (1)                     | 11.17 (15)      | 7.03        | 13.19 | 11.31  | 13.16 |
| 1733                  | WWW D2517     | 13.70 (23)                    | 10.72 (23)      | 7.54        | 13.21 | 10.41  | 11.73 |
| 1735                  | APB CP-1      | 13.49 (25)                    | 11.67 (6)       | -           | 12.91 | 10.12  | 11.99 |
| 1736                  | APB IM-1      | 13.55 (24)                    | 11.18 (14)      | -           | 12.89 | 10.21  | 10.43 |

Grain Protein % expressed at 12% moisture  
 Numbers in parentheses indicate relative rank in column.



2012 Kings Durum Wheat Test, Quality Evaluation

| Entry                 | Name          | Grain |      |         |          |      |             |                           |      |     | Milling |          |       |      |     |          |            |          |          |          | Pasta     |         |         |             |         |           |      |
|-----------------------|---------------|-------|------|---------|----------|------|-------------|---------------------------|------|-----|---------|----------|-------|------|-----|----------|------------|----------|----------|----------|-----------|---------|---------|-------------|---------|-----------|------|
|                       |               | Pro   | Ash  | Test Wt | 1000 Kwt | HVAC | Black Point | Kernel Size Dist. (200 g) |      |     | Tot Ext | Semo Ext | Pro   | Ash  | Spk | Alveo- W | Alveo- P/L | Wet Glut | Dry Glut | Fall No. | Color "b" | Color L | Color b | Color Score | Cook Wt | Cook Loss | Firm |
|                       |               |       |      |         |          |      |             | 7W                        | 10W  | 12W |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| <b>CULTIVARS</b>      |               |       |      |         |          |      |             |                           |      |     |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| 878                   | DURAKING      | 12.69 | 1.70 | 62.3    | 40.5     | 100  | 4           | 166.4                     | 33.4 | 0.3 | 75.8    | 63.6     | 11.79 | 1.70 | 7   | 193.8    | 1.80       | 29.9     | 10.8     | 645      | 23.70     | 51.13   | 33.89   | 5.5         | 30.81   | 8.4       | 6.6  |
| 1166                  | CROWN         | 13.28 | 1.71 | 60.1    | 43.1     | 100  | 2           | 174.4                     | 25.2 | 0.3 | 77.6    | 63.4     | 12.01 | 1.71 | 6   | 136.3    | 1.10       | 34.1     | 11.9     | 725      | 27.78     | 53.48   | 37.21   | 7.5         | 30.84   | 8.6       | 6.8  |
| 1210                  | PLATINUM      | 12.99 | 1.77 | 62.3    | 42.6     | 100  | 3           | 170.6                     | 29.2 | 0.2 | 76.4    | 64.7     | 11.53 | 1.77 | 5   | 172.5    | 1.20       | 32.1     | 11.2     | 622      | 23.34     | 49.90   | 37.20   | 7.5         | 30.08   | 9.0       | 6.5  |
| 1211                  | TOPPER        | 12.36 | 1.60 | 64.3    | 44.8     | 99   | 2           | 173.9                     | 26.0 | 0.1 | 76.7    | 63.4     | 11.40 | 1.60 | 4   | 118.9    | 1.00       | 30.6     | 10.4     | 622      | 27.78     | 51.71   | 36.32   | 6.0         | 32.04   | 9.3       | 6.7  |
| 1440                  | HELIOS        | 12.90 | 1.77 | 63.0    | 46.5     | 99   | 4           | 177.9                     | 21.9 | 0.1 | 77.3    | 62.7     | 11.40 | 1.77 | 6   | 231.4    | 1.40       | 29.8     | 9.9      | 842      | 27.75     | 51.53   | 40.19   | 9.0         | 28.38   | 8.7       | 6.9  |
| 1473                  | Q-MAX         | 13.67 | 1.72 | 59.4    | 41.9     | 100  | 0           | 169.8                     | 29.7 | 0.1 | 76.7    | 62.0     | 12.75 | 1.72 | 6   | 178.5    | 1.10       | 35.2     | 12.3     | 774      | 25.41     | 54.30   | 38.59   | 8.0         | 28.94   | 6.7       | 7.9  |
| 1582                  | MAESTRALE     | 12.50 | 1.67 | 62.9    | 41.7     | 99   | -           | 163.3                     | 35.8 | 0.8 | 76.9    | 64.1     | 11.68 | 1.67 | 7   | 120.8    | 1.50       | 32.1     | 10.9     | 597      | 24.36     | 52.97   | 37.08   | 7.5         | 29.66   | 8.0       | 7.0  |
| 1583                  | SARAGOLLA     | 13.40 | 1.78 | 63.2    | 47.4     | 98   | 2           | 172.4                     | 27.2 | 0.3 | 75.9    | 63.7     | 11.97 | 1.78 | 6   | 209.7    | 1.80       | 31.2     | 11.3     | 703      | 24.69     | 52.06   | 36.92   | 7.5         | 30.02   | 7.9       | 6.9  |
| <b>ADVANCED LINES</b> |               |       |      |         |          |      |             |                           |      |     |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| 1640                  | APB D1-2      | 13.38 | 1.66 | 62.0    | 53.8     | 100  | 5           | 193.3                     | 6.8  | 0.1 | 78.6    | 65.7     | 12.36 | 1.66 | 6   | 192.6    | 1.70       | 33.1     | 11.7     | 672      | 26.54     | 52.67   | 38.92   | 8.0         | 30.51   | 8.5       | 6.9  |
| 1690                  | UC 1690       | 13.11 | 1.62 | 63.0    | 49.0     | 100  | -           | 187.9                     | 11.5 | 0.1 | 78.9    | 66.2     | 12.10 | 1.62 | 5   | 114.8    | 0.90       | 31.5     | 11.2     | 573      | 24.98     | 54.00   | 39.00   | 8.5         | 29.75   | 7.9       | 6.5  |
| 1691                  | UC 1691       | 14.00 | 1.63 | 63.0    | 47.9     | 100  | -           | 183.7                     | 15.9 | 0.2 | 76.9    | 64.4     | 13.22 | 1.63 | 4   | 137.3    | 1.43       | 37       | 14.1     | 699      | 24.88     | 53.99   | 35.92   | 6.0         | 29.77   | 7.0       | 6.8  |
| 1695                  | WWW NDRPD3D13 | 12.62 | 1.64 | 62.1    | 44.4     | 99   | 2           | 176.7                     | 23.4 | 0.2 | 74.7    | 62.6     | 11.56 | 1.64 | 5   | 67.4     | 0.97       | 29.8     | 10.1     | 598      | 25.81     | 53.60   | 36.43   | 7.5         | 29.78   | 6.9       | 6.5  |
| 1696                  | WWW UT07412   | 13.28 | 1.73 | 60.6    | 48.3     | 99   | 3           | 185.6                     | 14.1 | 0.1 | 75.4    | 64.7     | 12.03 | 1.73 | 7   | 118.4    | 2.14       | 31.4     | 11       | 705      | 24.20     | 52.69   | 34.59   | 6.0         | 29.72   | 7.4       | 6.7  |
| 1697                  | KIKO NICK     | 12.55 | 1.58 | 63.3    | 55.6     | 100  | 1           | 189.6                     | 10.4 | 0.1 | 75.7    | 64.3     | 11.54 | 1.58 | 9   | 116.4    | 1.55       | 30.9     | 11.4     | 747      | 24.80     | 53.05   | 35.40   | 6.0         | 30.04   | 7.9       | 6.8  |
| 1698                  | 0SE2844       | 11.74 | 1.43 | 63.3    | 47.6     | 96   | 2           | 172.1                     | 27.4 | 0.4 | 75.3    | 63.2     | 10.50 | 1.43 | 12  | 162.8    | 2.42       | 25.8     | 9.2      | 718      | 25.80     | 54.70   | 35.84   | 6.0         | 30.99   | 8.7       | 6.4  |
| 1717                  | UC 1717       | 13.49 | 1.73 | 64.1    | 49.0     | 100  | 3           | 193.3                     | 6.6  | 0.1 | 76.1    | 64.2     | 12.46 | 1.73 | 5   | 233.2    | 1.96       | 34.7     | 12.6     | 705      | 26.56     | 54.08   | 40.26   | 8.5         | 29.26   | 6.6       | 7.5  |
| 1718                  | UC 1718       | 12.91 | 1.84 | 64.3    | 50.3     | 100  | 4           | 190.2                     | 9.7  | -   | 74.8    | 62.3     | 11.86 | 1.84 | 11  | 171.5    | 1.38       | 32.9     | 11.4     | 628      | 24.89     | 53.98   | 38.92   | 7.6         | 29.67   | 7.3       | 7.2  |
| 1719                  | UC 1719       | 13.07 | 1.64 | 64.7    | 51.0     | 100  | 2           | 191.6                     | 8.2  | -   | 74.1    | 62.6     | 11.97 | 1.64 | 5   | 170.5    | 1.91       | 33.7     | 11.6     | 619      | 26.36     | 55.13   | 39.71   | 8.5         | 29.47   | 7.5       | 7.3  |
| 1720                  | IMHOTEP       | 11.92 | 1.56 | 64.8    | 51.8     | 94   | 3           | 193.4                     | 6.4  | -   | 75.8    | 63.3     | 10.96 | 1.56 | 8   | 79.9     | 1.46       | 29.8     | 9.8      | 608      | 27.42     | 54.15   | 37.68   | 7.5         | 29.46   | 6.9       | 7.3  |
| 1721                  | ALIROR        | 12.96 | 1.56 | 63.7    | 55.2     | 100  | 6           | 193.4                     | 6.3  | -   | 73.8    | 63.5     | 11.49 | 1.56 | 18  | 61.7     | 2.36       | 29.9     | 9.8      | 721      | 24.87     | 53.85   | 37.63   | 7.5         | 29.59   | 7.3       | 7.3  |
| 1722                  | 06D2410       | 13.19 | 1.73 | 61.4    | 41.8     | 100  | -           | 157.6                     | 41.4 | 0.5 | 73.8    | 61.1     | 12.24 | 1.73 | 10  | 185.7    | 1.10       | 34.2     | 11.3     | 772      | 28.51     | 54.28   | 41.54   | 9.0         | 29.55   | 6.2       | 7.4  |
| 1733                  | WWW D2517     | 13.21 | 1.64 | 62.5    | 40.5     | 100  | 4           | 164.2                     | 35.4 | 0.1 | 75.9    | 63.1     | 12.12 | 1.64 | 4   | 77.9     | 0.80       | 31.3     | 10.8     | 590      | 25.04     | 55.36   | 38.63   | 8.0         | 30.77   | 8.7       | 6.1  |
| 1735                  | APB CP-1      | 12.91 | 1.63 | 62.5    | 42.7     | 100  | -           | 152.4                     | 47.1 | 0.8 | 76.1    | 63.1     | 11.68 | 1.63 | 10  | 154.7    | 0.70       | 31.1     | 11.2     | 616      | 23.45     | 55.01   | 36.31   | 7.5         | 29.41   | 6.4       | 7.0  |
| 1736                  | APB IM-1      | 12.89 | 1.59 | 62.1    | 42.9     | 100  | -           | 158.3                     | 40.0 | 0.8 | 75.8    | 61.2     | 11.62 | 1.59 | 13  | 140.6    | 0.83       | 32.6     | 11.1     | 575      | 22.64     | 54.99   | 35.92   | 6.0         | 29.74   | 7.2       | 7.3  |

Analysis provided by the California Wheat Commission Quality Laboratory, Woodland, CA

Pro = Protein% (12% moisture basis); Ash = Ash % (mineral content); Test Wt = Test weight (lb/bu); 1000 Kwt = Thousand kernel weight (grams); HVAC = Hard vitreous amber color (%).

Tot Ext = Total extract (%); Semo Ext = Semolina extract (%); Spk = Specks; Alveo W = Alveograph W; Alveo P/L = Alveograph P/L ratio; Fall No. = Falling number (seconds).

Color "b" = Intensive yellowness of pasta color (the higher the value, the more yellowness); Color Score: 9.0 or greater is good;

Cook Wt = Cooked weight, 10 gram sample; Cook Loss = Cooking loss (%), below 6.0 is good; Firm = Firmness (gcm), 6.0 and above is good.

2012 Imperial Durum Wheat Test, Quality Evaluation

| Entry                 | Name          | Grain |      |         |          |      |             |                           |      |     | Milling |          |       |      |     |          |            |          |          | Pasta    |           |         |         |             |         |           |      |
|-----------------------|---------------|-------|------|---------|----------|------|-------------|---------------------------|------|-----|---------|----------|-------|------|-----|----------|------------|----------|----------|----------|-----------|---------|---------|-------------|---------|-----------|------|
|                       |               | Pro   | Ash  | Test Wt | 1000 Kwt | HVAC | Black Point | Kernel Size Dist. (200 g) |      |     | Tot Ext | Semo Ext | Pro   | Ash  | Spk | Alveo- W | Alveo- P/L | Wet Glut | Dry Glut | Fall No. | Color "b" | Color L | Color b | Color Score | Cook Wt | Cook Loss | Firm |
|                       |               |       |      |         |          |      |             | 7W                        | 10W  | 12W |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| <b>CULTIVARS</b>      |               |       |      |         |          |      |             |                           |      |     |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| 878                   | DURAKING      | 14.09 | 1.82 | 61.6    | 39.5     | 100  | 2           | 143.7                     | 56.7 | 1.0 | 71.0    | 59.5     | 12.88 | 1.82 | 4   | 190.6    | 1.09       | 33.8     | 11.7     | 742      | 24.34     | 54.56   | 36.81   | 7.5         | 29.93   | 7.7       | 6.8  |
| 1166                  | CROWN         | 14.76 | 1.81 | 59.1    | 38.6     | 100  | -           | 150.2                     | 49.2 | 0.9 | 74.7    | 59.4     | 13.79 | 1.81 | 4   | 190.8    | 0.70       | 37       | 13.2     | 667      | 24.67     | 52.55   | 37.73   | 7.5         | 29.88   | 7.0       | 7.8  |
| 1210                  | PLATINUM      | 14.13 | 1.94 | 60.3    | 35.8     | 100  | -           | 130.3                     | 68.5 | 1.4 | 70.6    | 60.0     | 13.15 | 1.94 | 3   | 114.4    | 1.26       | 34.5     | 18.5     | 877      | 28.64     | 51.19   | 39.91   | 8.5         | 29.84   | 8.8       | 7.4  |
| 1211                  | TOPPER        | 13.44 | 1.73 | 63.1    | 39.1     | 100  | 3           | 152.9                     | 45.1 | 1.1 | 74.2    | 59.1     | 12.26 | 1.73 | 5   | 86.9     | 0.80       | 31.2     | 11.7     | 591      | 23.64     | 52.00   | 37.82   | 7.5         | 29.90   | 7.9       | 7.1  |
| 1215                  | ORITA         | 14.67 | 1.75 | 60.6    | 44.2     | 100  | 1           | 174.7                     | 24.0 | 0.9 | 70.5    | 58.4     | 13.59 | 1.75 | 4   | 258.2    | 1.19       | 37.7     | 14.4     | 867      | 26.54     | 51.44   | 40.01   | 8.5         | 30.44   | 8.1       | 7.0  |
| 1440                  | HELIOS        | 14.04 | 1.74 | 63.1    | 47.2     | 100  | 2           | 172.7                     | 26.1 | 0.4 | 74.4    | 59.5     | 13.05 | 1.74 | 5   | 327.3    | 1.89       | 33.3     | 11.9     | 1111     | 28.51     | 54.40   | 44.75   | 10.0        | 29.11   | 7.3       | 7.4  |
| 1473                  | Q-MAX         | 13.80 | 1.70 | 60.1    | 42.9     | 100  | 2           | 160.9                     | 38.1 | 0.6 | 74.6    | 59.2     | 12.68 | 1.70 | 4   | 184.6    | 0.78       | 35.2     | 13.6     | 777      | 24.50     | 54.06   | 39.36   | 8.5         | 28.53   | 7.8       | 7.4  |
| 1479                  | HAVASU        | 14.19 | 1.73 | 63.8    | 48.8     | 100  | -           | 184.0                     | 16.7 | 0.4 | 78.3    | 61.5     | 13.24 | 1.73 | 6   | 383.3    | 2.11       | 35.3     | 13.2     | 755      | 28.38     | 53.58   | 41.68   | 9.0         | 29.12   | 7.5       | 7.2  |
| 1582                  | MAESTRALE     | 13.79 | 1.85 | 63.2    | 40.5     | 100  | -           | 156.4                     | 42.2 | 1.5 | 75.5    | 61.3     | 13.05 | 1.85 | 9   | 162.4    | 0.86       | 33.6     | 12       | 590      | 24.98     | 52.77   | 38.11   | 8.0         | 29.74   | 7.7       | 7.2  |
| 1583                  | SARAGOLLA     | 12.87 | 1.91 | 63.9    | 45.9     | 100  | 2           | 165.1                     | 33.7 | 1.0 | 77.0    | 62.8     | 12.10 | 1.91 | 5   | 147.8    | 1.04       | 27.2     | 9.8      | 620      | 24.30     | 53.14   | 38.20   | 8.0         | 29.42   | 8.1       | 7.4  |
| 1607                  | WB-MEAD       | 14.38 | 1.90 | 62.0    | 42.0     | 100  | 4           | 164.3                     | 35.2 | 0.8 | 76.8    | 64.4     | 13.35 | 1.90 | 6   | 229.6    | 1.66       | 34.2     | 11.7     | 714      | 28.41     | 51.37   | 37.60   | 7.5         | 29.55   | 7.8       | 7.8  |
| <b>ADVANCED LINES</b> |               |       |      |         |          |      |             |                           |      |     |         |          |       |      |     |          |            |          |          |          |           |         |         |             |         |           |      |
| 1640                  | APB D1-2      | 14.36 | 1.79 | 61.4    | 52.0     | 100  | 4           | 191.6                     | 8.3  | 0.3 | 77.0    | 65.1     | 13.37 | 1.79 | 5   | 339.4    | 1.48       | 33.1     | 12.2     | 1302     | 28.26     | 52.64   | 41.16   | 9.0         | 30.13   | 7.8       | 7.5  |
| 1654                  | WB YU806-93   | 14.23 | 1.82 | 63.1    | 47.0     | 100  | 1           | 182.3                     | 17.2 | 0.4 | 79.1    | 63.8     | 13.43 | 1.82 | 4   | 417.3    | 1.96       | 35.1     | 12.5     | 1108     | 28.52     | 51.57   | 41.84   | 9.0         | 29.43   | 7.3       | 7.5  |
| 1677                  | RS001         | 14.69 | 1.95 | 62.0    | 42.0     | 100  | 2           | 164.2                     | 34.9 | 0.8 | 78.1    | 66.0     | 13.29 | 1.95 | 5   | 203.3    | 1.31       | 36.5     | 12.9     | 934      | 27.52     | 52.31   | 40.96   | 8.5         | 29.42   | 7.8       | 8.4  |
| 1678                  | RS002         | 14.71 | 1.81 | 62.1    | 44.0     | 100  | 1           | 165.8                     | 33.4 | 0.7 | 77.2    | 65.3     | 13.28 | 1.81 | 5   | 183.1    | 1.13       | 34.3     | 12.2     | 814      | 27.28     | 53.08   | 41.45   | 9.0         | 29.06   | 7.1       | 8.1  |
| 1690                  | UC 1690       | 14.14 | 1.71 | 62.5    | 45.0     | 100  | 1           | 180.0                     | 19.6 | 0.3 | 77.5    | 64.5     | 13.27 | 1.71 | 6   | 130.8    | 0.77       | 35.7     | 13       | 617      | 24.77     | 54.58   | 39.95   | 8.5         | 30.04   | 8.6       | 8.5  |
| 1691                  | UC 1691       | 13.94 | 1.78 | 62.9    | 42.0     | 100  | 1           | 167.6                     | 31.8 | 0.3 | 76.3    | 64.1     | 13.01 | 1.78 | 5   | 199.5    | 1.02       | 32.8     | 12.5     | 873      | 25.97     | 53.66   | 38.07   | 8.0         | 29.37   | 6.2       | 9.1  |
| 1695                  | WWW NDPRD3D13 | 14.69 | 1.69 | 62.9    | 43.0     | 100  | 4           | 171.8                     | 27.3 | 0.6 | 76.7    | 64.7     | 12.59 | 1.69 | 14  | 91.6     | 0.74       | 34.8     | 12.7     | 717      | 26.00     | 53.68   | 36.35   | 7.5         | 31.63   | 7.4       | 8.2  |
| 1696                  | WWW UT07412   | 13.77 | 1.91 | 61.9    | 54.0     | 100  | 3           | 186.9                     | 12.4 | 0.6 | 80.9    | 63.5     | 12.82 | 1.91 | 9   | 113.1    | 1.33       | 34.9     | 12.4     | 795      | 23.82     | 52.85   | 35.79   | 6.0         | 30.14   | 7.4       | 8.2  |
| 1697                  | KIKO NICK     | 13.19 | 1.64 | 62.8    | 50.0     | 100  | 4           | 181.5                     | 18.3 | 0.4 | 77.0    | 64.4     | 12.15 | 1.64 | 5   | 143.9    | 1.18       | 33.4     | 12.4     | 920      | 24.89     | 52.22   | 38.54   | 8.0         | 29.77   | 7.4       | 6.1  |
| 1698                  | 05E2844       | 12.88 | 1.58 | 63.1    | 44.0     | 97   | 1           | 166.7                     | 32.1 | 0.8 | 77.4    | 64.0     | 11.23 | 1.58 | 6   | 151.7    | 1.98       | 28.4     | 9.9      | 663      | 26.53     | 52.22   | 38.18   | 8.0         | 30.01   | 8.3       | 7.3  |
| 1709                  | RS003         | 14.64 | 2.04 | 60.9    | 38.0     | 100  | 1           | 160.0                     | 38.7 | 0.8 | 74.9    | 62.6     | 13.67 | 2.04 | 13  | 113.8    | 0.90       | 36.7     | 13.3     | 892      | 24.72     | 52.57   | 39.72   | 8.5         | 30.14   | 7.0       | 8.5  |
| 1717                  | UC 1717       | 14.01 | 1.83 | 63.3    | 47.0     | 100  | 1           | 175.9                     | 23.2 | 0.7 | 77.0    | 63.9     | 13.17 | 1.83 | 14  | 206.3    | 1.30       | 32.6     | 11.3     | 606      | 25.81     | 53.90   | 41.17   | 9.0         | 29.27   | 7.3       | 8.4  |
| 1718                  | UC 1718       | 14.40 | 1.98 | 62.1    | 41.0     | 100  | 1           | 170.1                     | 29.4 | 0.7 | 76.3    | 63.3     | 13.47 | 1.98 | 10  | 176.6    | 1.02       | 36.4     | 12.6     | 690      | 25.29     | 51.83   | 39.02   | 8.0         | 29.60   | 8.6       | 8.6  |
| 1719                  | UC 1719       | 14.10 | 1.71 | 63.5    | 45.0     | 100  | 1           | 178.5                     | 21.2 | 0.4 | 76.9    | 63.6     | 13.17 | 1.71 | 5   | 178.7    | 1.20       | 34.3     | 12.2     | 665      | 27.11     | 50.39   | 36.02   | 6.0         | 30.00   | 8.3       | 7.6  |
| 1720                  | IMHOTEP       | 12.93 | 1.69 | 64.9    | 46.0     | 100  | 2           | 181.8                     | 17.5 | 0.3 | 76.8    | 66.4     | 11.49 | 1.69 | 6   | 112.7    | 1.10       | 29.6     | 9.8      | 828      | 27.18     | 52.11   | 36.80   | 7.5         | 31.12   | 9.5       | 7.2  |
| 1721                  | ALIROR        | 13.15 | 1.59 | 64.9    | 50.0     | 100  | 4           | 182.0                     | 17.5 | 0.3 | 75.6    | 63.3     | 11.74 | 1.59 | 6   | 64.8     | 1.56       | 30.1     | 10.4     | 653      | 25.04     | 50.98   | 33.63   | 5.5         | 29.38   | 8.4       | 7.2  |
| 1722                  | 06D2410       | 16.19 | 1.85 | 58.4    | 38.5     | 100  | 1           | 185.9                     | 52.6 | 0.6 | 73.0    | 59.2     | 15.11 | 1.85 | 7   | 196.9    | 1.00       | 37.9     | 13.1     | 1087     | 28.63     | 49.25   | 35.35   | 6.0         | 29.27   | 7.8       | 8.3  |
| 1733                  | WWW D2517     | 13.70 | 1.86 | 62.4    | 41.0     | 100  | 4           | 145.0                     | 54.7 | 0.8 | 74.3    | 62.3     | 12.75 | 1.86 | 4   | 137.0    | 1.10       | 32.1     | 12.1     | 864      | 24.80     | 52.34   | 35.80   | 6.0         | 30.19   | 7.7       | 7.1  |
| 1735                  | APB CP-1      | 13.49 | 1.69 | 61.3    | 39.7     | 100  | -           | 137.0                     | 61.5 | 2.2 | 77.1    | 62.0     | 12.48 | 1.69 | 6   | 106.4    | 0.60       | 33.7     | 12.2     | 566      | 22.49     | 49.39   | 33.09   | 5.5         | 29.87   | 8.6       | 7.9  |
| 1736                  | APB IM-1      | 13.55 | 1.72 | 62.8    | 41.2     | 100  | 1           | 157.5                     | 42.1 | 1.7 | 77.6    | 65.7     | 12.53 | 1.72 | 5   | 106.9    | 2.80       | 34.5     | 12.6     | 604      | 21.71     | 46.90   | 31.81   | 4.5         | 29.33   | 9.9       | 6.5  |

Analysis provided by the California Wheat Commission Quality Laboratory, Woodland, CA

Pro = Protein% (12% moisture basis); Ash = Ash % (mineral content); Test Wt = Test weight (lb/bu); 1000 Kwt = Thousand kernel weight (grams); HVAC = Hard vitreous amber color (%).

Tot Ext = Total extract (%); Semo Ext = Semolina extract (%); Spk = Specks; Alveo W = Alveograph W; Alveo P/L = Alveograph P/L ratio; Fall No. = Falling number (seconds).

Color "b" = Intensive yellowness of pasta color (the higher the value, the more yellowness); Color Score: 9.0 or greater is good;

Cook Wt = Cooked weight, 10 gram sample; Cook Loss = Cooking loss (%), below 6.0 is good; Firm = Firmness (gcm), 6.0 and above is good.

2012 Durum Wheat Stripe Rust Over Location Summary

| Entry                 | Name          | Stripe Rust     |                     |               |
|-----------------------|---------------|-----------------|---------------------|---------------|
|                       |               | Mean<br>(3 Loc) | UC<br>Davis<br>5/30 | Fresno<br>5/2 |
| <u>CULTIVARS</u>      |               |                 |                     |               |
| 878                   | DURAKING      | 1.1 (15)        | 1.0                 | 1.3           |
| 1166                  | CROWN         | 1.0 (1)         | 1.0                 | 1.0           |
| 1210                  | PLATINUM      | 1.0 (1)         | 1.0                 | 1.0           |
| 1211                  | TOPPER        | 1.3 (18)        | 1.5                 | 1.0           |
| 1440                  | HELIOS        | 1.1 (15)        | 1.3                 | 1.0           |
| 1473                  | Q-MAX         | 1.0 (1)         | 1.0                 | 1.0           |
| <u>ADVANCED LINES</u> |               |                 |                     |               |
| 1640                  | APB D1-2      | 1.0 (1)         | 1.0                 | 1.0           |
| 1690                  | UC 1690       | 1.0 (1)         | 1.0                 | 1.0           |
| 1691                  | UC 1691       | 1.0 (1)         | 1.0                 | 1.0           |
| 1695                  | WWW NDPRD3D13 | 1.0 (1)         | 1.0                 | 1.0           |
| 1696                  | WWW UT07412   | 1.3 (18)        | 1.3                 | 1.3           |
| 1697                  | KIKO NICK     | 1.0 (1)         | 1.0                 | 1.0           |
| 1698                  | 05E2844       | 1.1 (15)        | 1.3                 | 1.0           |
| 1717                  | UC 1717       | 1.0 (1)         | 1.0                 | 1.0           |
| 1718                  | UC 1718       | 1.0 (1)         | 1.0                 | 1.0           |
| 1719                  | UC 1719       | 1.0 (1)         | 1.0                 | 1.0           |
| 1720                  | IMHOTEP       | 1.9 (20)        | 2.5                 | 1.3           |
| 1721                  | ALIROR        | 1.0 (1)         | 1.0                 | 1.0           |
| 1722                  | 06D2410       | 1.0 (1)         | 1.0                 | 1.0           |
| 1733                  | WWW D2517     | 1.0 (1)         | 1.0                 | 1.0           |
| MEAN                  |               | 1.1             | 1.1                 | 1.0           |
| CV                    |               | 26.7            | 31.9                | 19.7          |
| LSD (.05)             |               | 0.3             | 0.5                 | ns            |

Rating scale for foliar diseases (area of flag-1 leaf affected):

1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%,  
5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

2010-12 Durum Wheat Yield Summary (lbs/acre)

| Entry                 | Name         | Sacramento Valley |                       |                       | San Joaquin Valley |                       |                       | Imperial Valley    |                       |                       |
|-----------------------|--------------|-------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|
|                       |              | 2012<br>(1 loc)   | 2011-12<br>(2 loc/yr) | 2010-12<br>(3 loc/yr) | 2012<br>(3 loc/yr) | 2011-12<br>(6 loc/yr) | 2010-12<br>(9 loc/yr) | 2012<br>(1 loc/yr) | 2011-12<br>(2 loc/yr) | 2010-12<br>(3 loc/yr) |
| <u>CULTIVARS</u>      |              |                   |                       |                       |                    |                       |                       |                    |                       |                       |
| 878                   | DURAKING     | 5750 (6)          | 5440 (8)              | 5750 (3)              | 6510 (2)           | 6270 (12)             | 6570 (6)              | 7850 (3)           | 5990 (17)             | 6970 (9)              |
| 1166                  | CROWN        | 6050 (3)          | 5570 (5)              | 5860 (2)              | 5610 (19)          | 5980 (15)             | 6570 (6)              | 6800 (29)          | 5960 (19)             | 6760 (11)             |
| 1210                  | PLATINUM     | 5320 (13)         | 5680 (4)              | 5920 (1)              | 5770 (14)          | 6190 (14)             | 6800 (4)              | 6680 (30)          | 5970 (18)             | 6760 (11)             |
| 1211                  | TOPPER       | 5940 (4)          | 5410 (9)              | 5570 (4)              | 6540 (1)           | 7000 (4)              | 7040 (1)              | 7760 (4)           | 6550 (8)              | 7080 (8)              |
| 1215                  | ORITA        | -                 | -                     | -                     | -                  | -                     | -                     | 7570 (10)          | 6780 (2)              | 7420 (2)              |
| 1375                  | DESERT KING* | -                 | -                     | -                     | 5870 (13)          | 6990 (5)              | 7000 (2)              | 7630 (8)           | 6355 (12)             | 7185 (4)              |
| 1440                  | HELIOS       | 5470 (11)         | 5470 (7)              | -                     | 6310 (8)           | 6770 (7)              | -                     | 7490 (13)          | 6550 (8)              | -                     |
| 1473                  | Q-MAX        | 6350 (2)          | 5280 (10)             | -                     | 5540 (21)          | 5630 (17)             | -                     | 7640 (7)           | 6330 (13)             | -                     |
| 1479                  | HAVASU       | -                 | -                     | -                     | -                  | -                     | -                     | 7190 (20)          | 6600 (6)              | 7130 (6)              |
| 1582                  | MAESTRALE    | -                 | -                     | -                     | 5230 (25)          | 6300 (11)             | -                     | 6860 (28)          | 5920 (20)             | 6620 (13)             |
| 1583                  | SARAGOLLA    | -                 | -                     | -                     | 5640 (18)          | 6790 (6)              | -                     | 7140 (23)          | 5890 (22)             | 6850 (10)             |
| 1607                  | WB-MEAD      | -                 | -                     | -                     | -                  | -                     | -                     | 7490 (13)          | -                     | -                     |
| 1585                  | TIPAI*       | -                 | -                     | -                     | 6100 (10)          | 6620 (8)              | 6690 (5)              | 7660 (6)           | 6760 (3)              | 7515 (1)              |
| <u>ADVANCED LINES</u> |              |                   |                       |                       |                    |                       |                       |                    |                       |                       |
| 1640                  | APB D1-2     | 4290 (20)         | 4870 (13)             | 5540 (5)              | 5670 (16)          | 6230 (13)             | 6830 (3)              | 7320 (18)          | 6430 (11)             | 7150 (5)              |
| 1654                  | WB YU806-93  | -                 | -                     | -                     | -                  | -                     | -                     | 7180 (21)          | -                     | -                     |
| 1677                  | RS001        | -                 | -                     | -                     | -                  | -                     | -                     | 7130 (24)          | 6620 (5)              | 7110 (7)              |
| 1678                  | RS002        | -                 | -                     | -                     | -                  | -                     | -                     | 7420 (16)          | 6690 (4)              | 7400 (3)              |
| 1690                  | UC 1690      | 5510 (10)         | 5150 (12)             | -                     | 6360 (5)           | 7240 (1)              | -                     | 7600 (9)           | 6110 (14)             | -                     |
| 1691                  | UC 1691      | 4660 (19)         | 5220 (11)             | -                     | 5970 (12)          | 7010 (3)              | -                     | 7010 (26)          | 6040 (16)             | -                     |
| 1695                  | WWW NDPRD3D1 | 5720 (7)          | 5710 (3)              | -                     | 5750 (15)          | 6470 (9)              | -                     | 7180 (21)          | 5910 (21)             | -                     |
| 1696                  | WWW UT07412  | 5000 (16)         | 5510 (6)              | -                     | 4940 (26)          | 5920 (16)             | -                     | 6670 (31)          | 6100 (15)             | -                     |
| 1697                  | KIKO NICK    | 5440 (12)         | 5720 (2)              | -                     | 6330 (7)           | 7190 (2)              | -                     | 8310 (1)           | 6930 (1)              | -                     |
| 1698                  | 05E2844      | 5680 (8)          | 5880 (1)              | -                     | 5610 (19)          | 6400 (10)             | -                     | 7750 (5)           | 6450 (10)             | -                     |
| 1709                  | RS003        | -                 | -                     | -                     | -                  | -                     | -                     | 7450 (15)          | 6570 (7)              | -                     |
| 1717                  | UC 1717      | 5310 (14)         | -                     | -                     | 6450 (4)           | -                     | -                     | 7550 (11)          | -                     | -                     |
| 1718                  | UC 1718      | 5190 (15)         | -                     | -                     | 6060 (11)          | -                     | -                     | 7310 (19)          | -                     | -                     |
| 1719                  | UC 1719      | 4710 (18)         | -                     | -                     | 6290 (9)           | -                     | -                     | 7080 (25)          | -                     | -                     |
| 1720                  | IMHOTEP      | 5530 (9)          | -                     | -                     | 6350 (6)           | -                     | -                     | 6870 (27)          | -                     | -                     |
| 1721                  | ALIROR       | 4850 (17)         | -                     | -                     | 5660 (17)          | -                     | -                     | 8200 (2)           | -                     | -                     |
| 1722                  | 06D2410      | 6550 (1)          | -                     | -                     | 5330 (23)          | -                     | -                     | 6250 (33)          | -                     | -                     |
| 1733                  | WWW D2517    | 5770 (5)          | -                     | -                     | 5280 (24)          | -                     | -                     | 6480 (32)          | -                     | -                     |
| 1735                  | APB CP-1     | -                 | -                     | -                     | 5340 (22)          | -                     | -                     | 7390 (17)          | -                     | -                     |
| 1736                  | APB IM-1     | -                 | -                     | -                     | 6480 (3)           | -                     | -                     | 7550 (11)          | -                     | -                     |
|                       | MEAN         | 5450              | 5450                  | 5730                  | 5840               | 6480                  | 6740                  | 7300               | 6320                  | 7020                  |
|                       | CV           | 8.6               | 9.3                   | 7.0                   | 11.2               | 13.3                  | 11.4                  | 5.5                | 9.9                   | 8.5                   |
|                       | LSD (.05)    | 660               | 510                   | ns                    | 530                | 490                   | ns                    | 560                | 620                   | 480                   |

Numbers in parentheses indicate relative rank

\* Data was used from 2012 elite trials

2012 Regional Barley Entry List

| Entry                 | Name         | Type   | Parentage                           | Source   | Grown at               |
|-----------------------|--------------|--------|-------------------------------------|----------|------------------------|
| <b>CULTIVARS</b>      |              |        |                                     |          |                        |
| 603                   | UC 603       | 6RSF   | ((Marie*LU)*TRL)*BR)*(YDRBR*YDMRBR) | UC       | ALL                    |
| 816                   | MAX          | 6RSF   | CCXXXII SEL.                        | WWW      | ALL                    |
| 933                   | UC 933       | 6RSF   | Sma1/SB401/3/Gus/KBY//Sma1          | UC       | ALL                    |
| 951                   | MELTAN       | 2RSF   |                                     | ADAMS    | ALL                    |
| 969                   | UC 969       | 6RSF   | SMA1/SB401/3/UC337                  | UC       | ALL                    |
| 1047                  | ISHI         | 6RSF   | F6 UC 828/UC 960                    | UC       | ALL                    |
| 1134                  | TAMALPAIS    | 6RS(N) | F7 CMB 91A-1192-AL/UC 960           | UC       | ALL                    |
| <b>ADVANCED LINES</b> |              |        |                                     |          |                        |
| 1231                  | UCD 08YP 111 | 6RSF   | F6 22IBYT7//UC933/UC1047            | UC       | ALL                    |
| 1237                  | WWW BA4513   | 6RSF   | MSFRS Short Straw Barley Population | WWW      | ALL                    |
| 1249                  | UCD B110     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1252                  | UCD B156     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1255                  | UCD B369     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1256                  | UCD B398     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1258                  | UCD A34      | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1259                  | UCD B366     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1260                  | UCD B372     | 6RSF   | 22IBYT7//UC933/UC1047               | UC       | ALL                    |
| 1261                  | UCD A237     | 6RSF   | UC933//22IBYT7/UC1047               | UC       | ALL                    |
| 1263                  | UCD C43      | 6RSF   | Tamalpais (UC1134)//Madera/UC937    | UC       | ALL                    |
| 1266                  | UCD C51      | 6RSF   | Tamalpais (UC1134)//Madera/UC937    | UC       | ALL                    |
| 1279                  | UCD 1279     | 6RSF   | F6 5054/MGC//969                    | UC       | ALL                    |
| 1280                  | UCD 1280     | 6RSF   | F6 969*2/933 B259                   | UC       | ALL                    |
| 1284                  | UCD 1284     | 6RSF   | 22IBYT7/UC1047                      | UC       | ALL                    |
| 1286                  | UCD 1286     | 6RSF   | 22IBYT7//UC933/1047                 | UC       | ALL                    |
| 1316                  | UCD 1316     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | CB, UCD, TUL, CHC, FRE |
| 1317                  | UCD 1317     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | UCD, CHC, FRE          |
| 1318                  | UCD 1318     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | CB, UCD, CHC, FRE      |
| 1319                  | UCD 1319     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | CB, UCD, CHC, FRE      |
| 1320                  | UCD 1320     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | CB, UCD, CHC, FRE      |
| 1321                  | UCD 1321     | 6RSF-H | Tamalpais//Madera/UC937             | UC       | CB, UCD, TUL, CHC, FRE |
| 1322                  | UCD 1322     | 6RSM   | Z055001/CIMMYT 7862                 | UC       | CB, UCD, TUL, CHC, FRE |
| 1323                  | UCD 1323     | 6RSM   | Z055001/CIMMYT 7862                 | UC       | UCD, CHC, FRE          |
| 1324                  | UCD 1324     | 6RSM   | Z118012/CIMMYT 7862                 | UC       | CB, UCD, CHC, FRE      |
| 1325                  | UCD 1325     | 6RSM   | Z055001/CIMMYT 7862                 | UC       | CB, UCD, TUL, CHC, FRE |
| 1326                  | WWW BA4545   | 6RSF   | MSFRS - BAF6RML33 SELECTION         | WWW      | ALL                    |
| 1327                  | GEBSE        | 2RSF-H |                                     | NEGUSSIE | CB, UCD, TUL, CHC, FRE |

35 ENTRIES

**TYPE:** 6RSF = 6-ROW SPRING FEED; 2RSF = 2-ROW SPRING FEED; 2RS(N): NAKED 2-ROW SPRING;  
6RS(N): NAKED 6-ROW SPRING; 6RSM = 6-ROW SPRING MALT;  
6RWF = 6-ROW WINTER FEED; 6RW(H) = 6-ROW WINTER HOODED.  
**SOURCE:** ADAMS = ADAMS GRAIN CO., CIMMYT-ICARDA, OSU = OREGON STATE UNIVERSITY;  
UA = UNIVERSITY OF ARIZONA; UC = UNIVERSITY OF CALIFORNIA; WWW - WORLD WIDE WHEAT  
**LOCATIONS:** CB = CLARKSBURG; SLO = SAN LUIS OBISPO; UC DRF = UC DAVIS RAINFED;  
UCD = UC DAVIS; CHC = CHICO; TUL = TULARE; FRE = FRESNO

2012 Clarksburg Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000<br>Kernel Wt<br>(g) | Plant Ht<br>(in) | Lodging | Lodging<br>Harvest | Shatter | BYDV |
|-----------------------|--------------|---------------------|---------------------|--------------------------|------------------|---------|--------------------|---------|------|
| <b>CULTIVARS</b>      |              |                     |                     |                          |                  |         |                    |         |      |
| 603                   | UC 603       | 6040 (23)           | 51.8                | 39.9                     | 34               | 1.0     | 2.0                | 2.0     | 1.5  |
| 816                   | MAX          | 6370 (18)           | 56.5                | 49.4                     | 33               | 1.0     | 3.3                | 1.8     | 1.0  |
| 933                   | UC 933       | 7840 (6)            | 51.5                | 42.8                     | 36               | 1.3     | 2.8                | 2.3     | 1.8  |
| 951                   | MELTAN       | 5070 (29)           | 53.5                | 35.7                     | 36               | 1.5     | 3.8                | 2.5     | 4.5  |
| 969                   | UC 969       | 5210 (28)           | 53.9                | 45.6                     | 40               | 1.8     | 2.3                | 3.0     | 1.3  |
| 1047                  | ISHI         | 7890 (5)            | 52.5                | 45.3                     | 36               | 1.3     | 3.3                | 2.8     | 1.0  |
| 1134                  | TAMALPAIS    | 7050 (11)           | 57.3                | 39.4                     | 32               | 1.0     | 2.0                | 2.0     | 1.3  |
| <b>ADVANCED LINES</b> |              |                     |                     |                          |                  |         |                    |         |      |
| 1231                  | UCD 08YP 111 | 7340 (9)            | 52.3                | 46.6                     | 38               | 1.8     | 3.3                | 2.8     | 1.3  |
| 1237                  | WWW BA4513   | 6210 (21)           | 53.6                | 41.4                     | 39               | 4.8     | 5.5                | 2.5     | 1.0  |
| 1249                  | UCD B110     | 6800 (14)           | 52.9                | 52.2                     | 38               | 1.0     | 2.5                | 3.0     | 1.3  |
| 1252                  | UCD B156     | 6590 (16)           | 52.9                | 48.6                     | 41               | 1.0     | 3.0                | 2.8     | 1.0  |
| 1255                  | UCD B369     | 8000 (2)            | 52.2                | 49.5                     | 39               | 1.0     | 2.3                | 2.0     | 1.3  |
| 1256                  | UCD B398     | 8170 (1)            | 52.8                | 48.5                     | 40               | 1.0     | 2.0                | 2.5     | 1.3  |
| 1258                  | UCD A34      | 6840 (13)           | 52.3                | 50.2                     | 39               | 1.0     | 2.5                | 2.3     | 1.0  |
| 1259                  | UCD B366     | 6370 (17)           | 51.6                | 51.5                     | 42               | 1.0     | 2.5                | 2.8     | 1.3  |
| 1260                  | UCD B372     | 7970 (3)            | 52.7                | 46.4                     | 38               | 1.0     | 2.5                | 2.8     | 1.5  |
| 1261                  | UCD A237     | 7830 (7)            | 51.5                | 42.8                     | 37               | 1.0     | 2.5                | 2.8     | 1.5  |
| 1263                  | UCD C43      | 6610 (15)           | 55.1                | 41.2                     | 38               | 1.0     | 2.3                | 2.5     | 1.0  |
| 1266                  | UCD C51      | 7200 (10)           | 53.6                | 40.7                     | 35               | 1.0     | 3.0                | 2.5     | 1.0  |
| 1279                  | UCD 1279     | 5240 (27)           | 53.1                | 39.7                     | 40               | 6.0     | 5.5                | 3.5     | 1.5  |
| 1280                  | UCD 1280     | 6840 (12)           | 51.4                | 40.4                     | 38               | 5.3     | 6.0                | 2.8     | 1.0  |
| 1284                  | UCD 1284     | 7490 (8)            | 52.2                | 44.2                     | 39               | 1.3     | 3.0                | 2.8     | 1.3  |
| 1286                  | UCD 1286     | 7970 (4)            | 52.0                | 45.3                     | 36               | 1.0     | 2.5                | 2.5     | 2.8  |
| 1316                  | UCD 1316     | 5420 (26)           | 50.1                | 34.7                     | 37               | 5.0     | 6.8                | 3.0     | 1.0  |
| 1318                  | UCD 1318     | 6340 (19)           | 53.0                | 41.2                     | 35               | 3.3     | 5.3                | 2.8     | 1.0  |
| 1319                  | UCD 1319     | 5440 (25)           | 52.7                | 37.1                     | 36               | 3.5     | 4.8                | 3.0     | 1.0  |
| 1320                  | UCD 1320     | 6170 (22)           | 44.3                | 32.2                     | 38               | 1.0     | 3.5                | 2.3     | 1.0  |
| 1321                  | UCD 1321     | 5870 (24)           | 50.8                | 37.5                     | 34               | 1.0     | 2.5                | 2.8     | 1.0  |
| 1322                  | UCD 1322     | 5050 (30)           | 56.8                | 39.8                     | 38               | 5.8     | 6.3                | 3.3     | 1.5  |
| 1324                  | UCD 1324     | 3200 (32)           | 55.4                | 42.3                     | 40               | 5.5     | 5.8                | 4.8     | 1.8  |
| 1325                  | UCD 1325     | 4140 (31)           | 56.5                | 40.9                     | 41               | 5.3     | 5.5                | 3.0     | 1.8  |
| 1326                  | WWW BA4545   | 6210 (20)           | 51.8                | 38.7                     | 37               | 3.5     | 3.8                | 2.5     | 1.0  |
| 1327                  | GEBSE        | 3070 (33)           | 52.4                | 58.2                     | 45               | 5.8     | 7.0                | 3.8     | 1.0  |
|                       | MEAN         | 6360                | 52.8                | 43.3                     | 37               | 2.4     | 3.7                | 2.7     | 1.4  |
|                       | CV           | 10.6                | 1.5                 | 4.6                      | 5.3              | 25.7    | 27.3               | 25.4    | 38.4 |
|                       | LSD (.05)    | 950                 | 1.6                 | 4.1                      | 4                | 0.9     | 1.4                | 1.0     | 0.7  |

Rating scale for diseases (area of flag-1 leaf affected) lodging and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

2012 Fresno Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging       |         | Shatter | Stripe<br>Rust | Leaf<br>Rust | BYDV | Powdery<br>Mildew |
|-----------------------|--------------|---------------------|---------------------|------------------|---------------|---------|---------|----------------|--------------|------|-------------------|
|                       |              |                     |                     |                  | Soft<br>Dough | Harvest |         |                |              |      |                   |
| <u>CULTIVARS</u>      |              |                     |                     |                  |               |         |         |                |              |      |                   |
| 603                   | UC 603       | 3750 (31)           | 51.8                | 36               | 1.0           | 0.8     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 816                   | MAX          | 4950 (16)           | 54.3                | 31               | 1.0           | 1.3     | 1.0     | 2.3            | 2.0          | 1.0  | 1.3               |
| 933                   | UC 933       | 4620 (21)           | 52.8                | 38               | 1.0           | 1.2     | 1.0     | 1.0            | 1.0          | 1.0  | 1.3               |
| 951                   | MELTAN       | 4000 (27)           | 56.6                | 29               | 1.0           | 1.0     | 1.0     | 1.3            | 1.0          | 4.3  | 1.0               |
| 969                   | UC 969       | 4560 (23)           | 54.6                | 40               | 1.0           | 1.3     | 1.3     | 1.0            | 1.5          | 1.3  | 1.0               |
| 1047                  | ISHI         | 6120 (4)            | 53.4                | 37               | 1.0           | 1.3     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1134                  | TAMALPAIS    | 4420 (24)           | 60.1                | 33               | 1.0           | 1.2     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| <u>ADVANCED LINES</u> |              |                     |                     |                  |               |         |         |                |              |      |                   |
| 1231                  | UCD 08YP 111 | 6140 (3)            | 52.5                | 41               | 1.0           | 1.0     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1237                  | WWW BA4513   | 5280 (13)           | 53.2                | 39               | 1.0           | 1.0     | 1.0     | 1.0            | 3.0          | 1.0  | 4.0               |
| 1249                  | UCD B110     | 5810 (8)            | 51.8                | 41               | 1.0           | 1.5     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1252                  | UCD B156     | 4880 (19)           | 52.8                | 41               | 1.0           | 2.1     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1255                  | UCD B369     | 6150 (2)            | 52.2                | 41               | 1.0           | 1.1     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1256                  | UCD B398     | 5640 (10)           | 52.9                | 38               | 1.0           | 2.2     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1258                  | UCD A34      | 5590 (11)           | 51.6                | 42               | 1.0           | 0.9     | 1.5     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1259                  | UCD B366     | 6000 (6)            | 52.3                | 44               | 1.0           | 1.3     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1260                  | UCD B372     | 5910 (7)            | 51.7                | 40               | 1.0           | 2.3     | 1.3     | 1.0            | 1.3          | 1.0  | 1.0               |
| 1261                  | UCD A237     | 5680 (9)            | 51.3                | 40               | 1.0           | 1.9     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1263                  | UCD C43      | 2900 (34)           | 60.3                | 41               | 1.0           | 1.8     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1266                  | UCD C51      | 3900 (28)           | 60.3                | 39               | 1.0           | 0.9     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1279                  | UCD 1279     | 4560 (22)           | 53.4                | 42               | 1.0           | 1.5     | 2.8     | 1.0            | 1.3          | 1.5  | 1.0               |
| 1280                  | UCD 1280     | 4930 (17)           | 52.9                | 48               | 2.3           | 2.6     | 2.5     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1284                  | UCD 1284     | 6060 (5)            | 52.3                | 41               | 1.0           | 3.0     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1286                  | UCD 1286     | 6170 (1)            | 51.2                | 40               | 1.0           | 1.9     | 1.0     | 1.0            | 1.0          | 1.3  | 1.0               |
| 1316                  | UCD 1316     | 3820 (30)           | 61.3                | 35               | 1.0           | 2.3     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1317                  | UCD 1317     | 4880 (20)           | 59.8                | 36               | 1.0           | 1.8     | 1.0     | 1.0            | 1.0          | 1.0  | 1.3               |
| 1318                  | UCD 1318     | 3640 (32)           | 55.2                | 40               | 1.0           | 2.1     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1319                  | UCD 1319     | 4400 (25)           | 61.1                | 38               | 1.0           | 1.6     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1320                  | UCD 1320     | 4990 (15)           | 59.1                | 35               | 1.0           | 1.9     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1321                  | UCD 1321     | 3820 (29)           | 60.0                | 36               | 1.0           | 1.2     | 1.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1322                  | UCD 1322     | 4920 (18)           | 56.7                | 39               | 2.3           | 2.9     | 2.0     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1323                  | UCD 1323     | 5020 (14)           | 57.7                | 40               | 1.8           | 2.2     | 1.1     | 1.0            | 1.0          | 1.5  | 1.0               |
| 1324                  | UCD 1324     | 3490 (33)           | 56.7                | 40               | 1.0           | 1.7     | 2.5     | 2.8            | 1.0          | 2.0  | 1.5               |
| 1325                  | UCD 1325     | 4290 (26)           | 56.4                | 42               | 2.3           | 3.8     | 1.3     | 1.0            | 1.0          | 1.0  | 1.0               |
| 1326                  | WWW BA4545   | 5540 (12)           | 53.8                | 36               | 1.0           | 2.6     | 1.0     | 1.3            | 2.3          | 1.0  | 2.3               |
| 1327                  | GEBSE        | 2400 (35)           | 52.3                | 53               | 3.0           | 4.5     | 4.0     | 1.0            | 1.3          | 1.8  | 1.0               |
|                       | MEAN         | 4990                | 55.1                | 39               | 1.2           | 1.8     | 1.2     | 1.1            | 1.2          | 1.2  | 1.2               |
|                       | CV           | 9.6                 | 1.3                 | 3.8              | 52.8          | 48.2    | 31.8    | 15.4           | 31.9         | 24.9 | 31.7              |
|                       | LSD (.05)    | 680                 | 1.1                 | 3                | 0.9           | 1.2     | 0.6     | 0.2            | 0.5          | 0.4  | 0.5               |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

2012 UC Davis Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Days To                   |          | Lodging<br>Harvest | Shatter | Stripe<br>Rust | Leaf<br>Rust | BYDV | Net<br>Blotch |
|-----------------------|--------------|---------------------|---------------------|------------------|------------------|---------------------------|----------|--------------------|---------|----------------|--------------|------|---------------|
|                       |              |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Heading<br>From (1/1-3/1) | Maturity |                    |         |                |              |      |               |
| <u>CULTIVARS</u>      |              |                     |                     |                  |                  |                           |          |                    |         |                |              |      |               |
| 603                   | UC 603       | 5250 (26)           | 50.3                | 38.7             | 31               | 37                        | 76       | 1.0                | 1.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 816                   | MAX          | 6190 (14)           | 52.8                | 39.9             | 28               | 51                        | 87       | 1.8                | 1.5     | 2.8            | 1.5          | 1.0  | 1.3           |
| 933                   | UC 933       | 5860 (17)           | 49.6                | 40.3             | 31               | 38                        | 82       | 2.8                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 951                   | MELTAN       | 4880 (33)           | 55.2                | 41.9             | 28               | 51                        | 79       | 1.3                | 1.8     | 1.3            | 1.0          | 2.3  | 1.0           |
| 969                   | UC 969       | 6120 (15)           | 52.2                | 40.8             | 30               | 33                        | 80       | 1.0                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1047                  | ISHI         | 7000 (5)            | 50.1                | 40.9             | 31               | 42                        | 85       | 2.8                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1134                  | TAMALPAIS    | 5750 (18)           | 52.5                | 38.5             | 27               | 39                        | 84       | 1.0                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| <u>ADVANCED LINES</u> |              |                     |                     |                  |                  |                           |          |                    |         |                |              |      |               |
| 1231                  | UCD 08YP 111 | 7200 (1)            | 50.2                | 45.5             | 36               | 42                        | 83       | 2.0                | 2.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1237                  | WWW BA4513   | 5420 (22)           | 47.5                | 33.9             | 33               | 52                        | 86       | 1.8                | 2.3     | 1.8            | 2.5          | 1.0  | 1.0           |
| 1249                  | UCD B110     | 6530 (13)           | 49.7                | 47.1             | 30               | 43                        | 83       | 1.3                | 1.0     | 1.0            | 1.0          | 1.3  | 1.0           |
| 1252                  | UCD B156     | 6720 (9)            | 50.2                | 44.5             | 32               | 42                        | 81       | 1.5                | 1.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1255                  | UCD B369     | 7100 (3)            | 49.6                | 47.3             | 33               | 45                        | 87       | 2.0                | 1.5     | 1.3            | 1.0          | 1.0  | 1.0           |
| 1256                  | UCD B398     | 6710 (10)           | 49.4                | 42.8             | 31               | 44                        | 83       | 1.8                | 1.5     | 1.0            | 1.0          | 1.3  | 1.0           |
| 1258                  | UCD A34      | 6820 (8)            | 49.5                | 46.1             | 35               | 44                        | 83       | 2.0                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1259                  | UCD B366     | 6960 (7)            | 49.8                | 48.2             | 35               | 41                        | 85       | 2.0                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1260                  | UCD B372     | 7170 (2)            | 49.0                | 43.1             | 33               | 42                        | 83       | 2.3                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1261                  | UCD A237     | 6620 (11)           | 49.1                | 42.3             | 32               | 48                        | 82       | 2.0                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1263                  | UCD C43      | 5220 (28)           | 54.1                | 38.8             | 30               | 46                        | 84       | 1.5                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1266                  | UCD C51      | 6000 (16)           | 53.6                | 39.2             | 31               | 43                        | 84       | 1.5                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1279                  | UCD 1279     | 5280 (25)           | 51.2                | 39.4             | 40               | 42                        | 81       | 2.0                | 4.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1280                  | UCD 1280     | 6600 (12)           | 51.6                | 42.0             | 39               | 41                        | 81       | 3.0                | 2.8     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1284                  | UCD 1284     | 6990 (6)            | 48.9                | 41.0             | 33               | 45                        | 82       | 2.0                | 1.8     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1286                  | UCD 1286     | 7050 (4)            | 49.4                | 44.5             | 32               | 48                        | 84       | 1.8                | 1.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1316                  | UCD 1316     | 5390 (23)           | 51.1                | 39.9             | 31               | 41                        | 83       | 2.0                | 1.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1317                  | UCD 1317     | 5610 (19)           | 50.3                | 40.4             | 30               | 45                        | 83       | 1.8                | 1.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1318                  | UCD 1318     | 5310 (24)           | 52.6                | 41.5             | 32               | 46                        | 85       | 1.8                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1319                  | UCD 1319     | 5540 (21)           | 55.3                | 39.3             | 33               | 49                        | 83       | 1.8                | 1.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1320                  | UCD 1320     | 5550 (20)           | 52.4                | 37.5             | 29               | 51                        | 87       | 1.3                | 1.0     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1321                  | UCD 1321     | 4940 (30)           | 53.6                | 40.0             | 30               | 51                        | 85       | 1.5                | 1.8     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1322                  | UCD 1322     | 4900 (31)           | 54.5                | 35.7             | 34               | 47                        | 78       | 1.5                | 2.8     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1323                  | UCD 1323     | 4900 (32)           | 55.9                | 41.6             | 35               | 46                        | 79       | 1.5                | 1.8     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1324                  | UCD 1324     | 4760 (34)           | 54.8                | 46.8             | 33               | 39                        | 81       | 1.3                | 2.5     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1325                  | UCD 1325     | 5200 (29)           | 54.0                | 37.3             | 36               | 49                        | 81       | 1.5                | 2.3     | 1.0            | 1.0          | 1.0  | 1.0           |
| 1326                  | WWW BA4545   | 5230 (27)           | 47.0                | 33.9             | 33               | 51                        | 84       | 1.8                | 2.0     | 1.5            | 2.8          | 1.0  | 1.0           |
| 1327                  | GEBSE        | 2040 (35)           | 51.0                | 60.2             | 44               | 37                        | 69       | 1.8                | 6.0     | 1.0            | 1.0          | 2.5  | 1.0           |
|                       | MEAN         | 5850                | 51.4                | 41.7             | 32               | 44                        | 82       | 1.7                | 1.8     | 1.1            | 1.1          | 1.1  | 1.0           |
|                       | CV           | 7.1                 | 2.3                 | 3.8              | 5.2              | 5.5                       | 2.6      | 32.6               | 30.2    | 25.2           | 14.5         | 16.1 | 8.4           |
|                       | LSD (.05)    | 580                 | 2.4                 | 3.3              | 2                | 3.0                       | 3.0      | 0.8                | 0.8     | 0.4            | 0.2          | 0.2  | ns            |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.



2012 Chico Rainfed Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging       |         | BYDV | Net<br>Blotch | Scald |
|-----------------------|--------------|---------------------|---------------------|------------------|---------------|---------|------|---------------|-------|
|                       |              |                     |                     |                  | Soft<br>Dough | Harvest |      |               |       |
| <b>CULTIVARS</b>      |              |                     |                     |                  |               |         |      |               |       |
| 603                   | UC 603       | 3650 (21)           | 50.8                | 29               | 1.0           | 1.0     | 1.0  | 1.0           | 1.0   |
| 816                   | MAX          | 2420 (33)           | 48.6                | 21               | 1.0           | 1.0     | 1.0  | 1.5           | 1.5   |
| 933                   | UC 933       | 4370 (8)            | 49.5                | 31               | 1.0           | 2.3     | 1.0  | 1.0           | 1.0   |
| 951                   | MELTAN       | 3080 (28)           | 51.9                | 31               | 1.0           | 1.0     | 1.5  | 1.0           | 1.5   |
| 969                   | UC 969       | 4140 (12)           | 53.2                | 30               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| 1047                  | ISHI         | 4510 (6)            | 48.4                | 26               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| 1134                  | TAMALPAIS    | 3960 (16)           | 48.8                | 28               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| <b>ADVANCED LINES</b> |              |                     |                     |                  |               |         |      |               |       |
| 1231                  | UCD 08YP 111 | 3810 (19)           | 48.0                | 33               | 1.0           | 1.8     | 1.0  | 1.0           | 1.0   |
| 1237                  | WWW BA4513   | 3180 (27)           | 45.5                | 32               | 1.0           | 1.5     | 1.0  | 1.0           | 1.8   |
| 1249                  | UCD B110     | 5070 (1)            | 49.4                | 30               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1252                  | UCD B156     | 3890 (18)           | 48.6                | 30               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| 1255                  | UCD B369     | 3980 (14)           | 47.0                | 29               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| 1256                  | UCD B398     | 4950 (2)            | 47.8                | 32               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1258                  | UCD A34      | 3430 (22)           | 47.3                | 34               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1259                  | UCD B366     | 4920 (3)            | 47.9                | 36               | 1.0           | 2.0     | 1.0  | 1.0           | 1.0   |
| 1260                  | UCD B372     | 4910 (4)            | 46.6                | 33               | 1.0           | 1.8     | 1.0  | 1.0           | 1.0   |
| 1261                  | UCD A237     | 3920 (17)           | 46.6                | 31               | 1.0           | 2.5     | 1.0  | 1.0           | 1.0   |
| 1263                  | UCD C43      | 2610 (32)           | 48.6                | 29               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1266                  | UCD C51      | 2860 (30)           | 50.5                | 31               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1279                  | UCD 1279     | 4060 (13)           | 50.4                | 33               | 1.0           | 1.5     | 1.0  | 1.0           | 1.0   |
| 1280                  | UCD 1280     | 3980 (15)           | 53.4                | 36               | 3.0           | 3.0     | 1.0  | 1.0           | 1.0   |
| 1284                  | UCD 1284     | 4770 (5)            | 45.4                | 33               | 1.0           | 1.5     | 1.3  | 1.0           | 1.0   |
| 1286                  | UCD 1286     | 3200 (26)           | 43.0                | 28               | 1.0           | 1.8     | 1.0  | 1.0           | 1.0   |
| 1316                  | UCD 1316     | 4260 (9)            | 40.9                | 30               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1317                  | UCD 1317     | 3310 (25)           | 45.3                | 30               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1318                  | UCD 1318     | 2920 (29)           | 50.0                | 30               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1319                  | UCD 1319     | 2340 (34)           | 45.8                | 27               | 1.0           | 1.0     | 1.0  | 1.0           | 1.0   |
| 1320                  | UCD 1320     | 3710 (20)           | 43.5                | 27               | 1.0           | 1.3     | 1.0  | 1.0           | 1.3   |
| 1321                  | UCD 1321     | 3320 (24)           | 42.4                | 30               | 1.0           | 1.3     | 1.0  | 1.0           | 1.0   |
| 1322                  | UCD 1322     | 4390 (7)            | 55.1                | 30               | 1.5           | 2.5     | 1.0  | 1.0           | 1.0   |
| 1323                  | UCD 1323     | 4240 (10)           | 56.0                | 34               | 1.0           | 1.8     | 1.0  | 1.0           | 1.0   |
| 1324                  | UCD 1324     | 2680 (31)           | 55.1                | 27               | 1.0           | 1.0     | 2.0  | 1.0           | 1.0   |
| 1325                  | UCD 1325     | 4180 (11)           | 52.4                | 34               | 1.8           | 2.0     | 1.0  | 1.0           | 1.0   |
| 1326                  | WWW BA4545   | 3330 (23)           | 43.7                | 28               | 1.0           | 1.0     | 1.0  | 1.0           | 1.8   |
| 1327                  | GEBSE        | 1990 (35)           | 51.0                | 39               | 1.0           | 1.8     | 1.0  | 1.0           | 1.0   |
| MEAN                  |              | 3720                | 48.5                | 30               | 1.1           | 1.5     | 1.1  | 1.0           | 1.1   |
| CV                    |              | 30.9                | 3.9                 | 13.2             | 51.7          | 51.8    | 25.4 | 16.7          | 31.9  |
| LSD (.05)             |              | 1610                | 3.9                 | ns               | 0.8           | ns      | 0.4  | ns            | ns    |

Rating scale for diseases (area of flag-1 leaf affected) and lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

2012 Tehama Rainfed Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Lodging<br>Harvest | Stripe<br>Rust | BYDV | Net<br>Blotch | Scald |
|-----------------------|--------------|---------------------|---------------------|--------------------|----------------|------|---------------|-------|
| <u>CULTIVARS</u>      |              |                     |                     |                    |                |      |               |       |
| 603                   | UC 603       | 2990 (11)           | 51.0                | 3.0                | 1.0            | 1.0  | 2.5           | 1.0   |
| 816                   | MAX          | 2310 (19)           | 48.2                | 1.8                | 2.0            | 1.3  | 3.8           | 2.3   |
| 933                   | UC 933       | 2630 (17)           | 49.1                | 2.0                | 1.0            | 1.0  | 1.5           | 1.0   |
| 951                   | MELTAN       | 1740 (23)           | 51.7                | 2.0                | 1.0            | 4.8  | 2.3           | 1.0   |
| 969                   | UC 969       | 1600 (24)           | 46.8                | 2.0                | 1.0            | 1.3  | 2.0           | 1.0   |
| 1047                  | ISHI         | 2880 (13)           | 48.1                | 1.5                | 1.0            | 1.0  | 1.0           | 1.0   |
| 1134                  | TAMALPAIS    | 3740 (2)            | 51.9                | 2.5                | 1.0            | 1.5  | 1.0           | 1.0   |
| <u>ADVANCED LINES</u> |              |                     |                     |                    |                |      |               |       |
| 1231                  | UCD 08YP 111 | 2690 (15)           | 47.8                | 2.0                | 1.0            | 1.5  | 1.8           | 1.0   |
| 1237                  | WWW BA4513   | 3520 (4)            | 47.7                | 1.5                | 1.0            | 1.0  | 2.0           | 2.0   |
| 1249                  | UCD B110     | 3580 (3)            | 50.0                | 1.3                | 1.0            | 1.5  | 2.5           | 1.0   |
| 1252                  | UCD B156     | 3510 (5)            | 48.8                | 2.8                | 1.0            | 1.0  | 1.0           | 1.0   |
| 1255                  | UCD B369     | 3360 (6)            | 46.2                | 1.8                | 1.0            | 1.8  | 1.5           | 1.0   |
| 1256                  | UCD B398     | 2120 (22)           | 44.4                | 1.8                | 1.0            | 1.8  | 2.0           | 1.0   |
| 1258                  | UCD A34      | 2670 (16)           | 45.9                | 1.5                | 1.0            | 1.5  | 2.3           | 1.3   |
| 1259                  | UCD B366     | 3130 (9)            | 47.2                | 1.5                | 1.0            | 1.0  | 2.0           | 1.5   |
| 1260                  | UCD B372     | 2350 (18)           | 45.1                | 1.7                | 1.0            | 1.2  | 1.6           | 1.0   |
| 1261                  | UCD A237     | 2250 (20)           | 43.6                | 3.0                | 1.0            | 1.3  | 1.8           | 1.0   |
| 1263                  | UCD C43      | 3130 (10)           | 53.1                | 1.8                | 1.0            | 1.8  | 1.5           | 1.0   |
| 1266                  | UCD C51      | 2250 (21)           | 45.1                | 2.0                | 1.0            | 1.3  | 1.5           | 1.3   |
| 1279                  | UCD 1279     | 2980 (12)           | 50.0                | 1.5                | 1.0            | 2.3  | 2.0           | 1.0   |
| 1280                  | UCD 1280     | 4140 (1)            | 53.1                | 1.5                | 1.0            | 1.0  | 1.0           | 1.0   |
| 1284                  | UCD 1284     | 2730 (14)           | 48.2                | 1.8                | 1.0            | 1.5  | 1.8           | 1.0   |
| 1286                  | UCD 1286     | 3180 (7)            | 49.0                | 1.5                | 1.0            | 1.5  | 2.0           | 1.0   |
| 1326                  | WWW BA4545   | 3170 (8)            | 45.3                | 1.0                | 1.0            | 0.9  | 2.0           | 3.6   |
|                       | MEAN         | 2820                | 48.2                | 1.9                | 1.0            | 1.5  | 1.8           | 1.2   |
|                       | CV           | 22.6                | 5.0                 | 61.8               | ns             | 39.3 | 40.2          | 29.8  |
|                       | LSD (.05)    | 930                 | 5.0                 | ns                 | ns             | 0.8  | 1.0           | 0.5   |

Rating scale for diseases (area of flag-1 leaf affected), and lodging: 1 = 0-3%, 2 = 4-14%,

3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

BYDV ratings (see scale above) were based on percentage of plants showing foliar symptoms.

Numbers in parentheses indicate relative rank in column.

2012 San Luis Obispo Rainfed Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) |
|-----------------------|--------------|---------------------|---------------------|------------------|
| <u>CULTIVARS</u>      |              |                     |                     |                  |
| 603                   | UC 603       | 1920 (7)            | 50.4                | 20               |
| 816                   | MAX          | 1160 (24)           | 48.5                | 18               |
| 933                   | UC 933       | 1460 (19)           | 48.0                | 23               |
| 951                   | MELTAN       | 1830 (11)           | 54.7                | 21               |
| 969                   | UC 969       | 1790 (12)           | 49.7                | 19               |
| 1047                  | ISHI         | 1830 (10)           | 47.5                | 20               |
| 1134                  | TAMALPAIS    | 1430 (20)           | 55.6                | 20               |
| <u>ADVANCED LINES</u> |              |                     |                     |                  |
| 1231                  | UCD 08YP 111 | 1840 (9)            | 45.7                | 22               |
| 1237                  | WWW BA4513   | 1300 (22)           | 47.2                | 20               |
| 1249                  | UCD B110     | 1560 (17)           | 47.6                | 23               |
| 1252                  | UCD B156     | 2060 (4)            | 46.3                | 21               |
| 1255                  | UCD B369     | 1860 (8)            | 44.5                | 21               |
| 1256                  | UCD B398     | 1720 (14)           | 45.4                | 21               |
| 1258                  | UCD A34      | 1510 (18)           | 45.2                | 21               |
| 1259                  | UCD B366     | 2520 (1)            | 46.1                | 24               |
| 1260                  | UCD B372     | 2000 (5)            | 45.3                | 24               |
| 1261                  | UCD A237     | 1700 (15)           | 46.0                | 21               |
| 1263                  | UCD C43      | 1260 (23)           | 55.7                | 23               |
| 1266                  | UCD C51      | 1380 (21)           | 55.1                | 21               |
| 1279                  | UCD 1279     | 1980 (6)            | 47.9                | 22               |
| 1280                  | UCD 1280     | 2390 (2)            | 49.0                | 25               |
| 1284                  | UCD 1284     | 2230 (3)            | 44.9                | 22               |
| 1286                  | UCD 1286     | 1750 (13)           | 45.9                | 24               |
| 1326                  | WWW BA4545   | 1600 (16)           | 48.0                | 21               |
|                       | MEAN         | 1750                | 48.3                | 21               |
|                       | CV           | 21.8                | 2.3                 | 8.4              |
|                       | LSD (.05)    | 540                 | 2.3                 | ns               |

Numbers in parentheses indicate relative rank in column.

2012 Tulare Rainfed Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) |
|-----------------------|--------------|---------------------|---------------------|------------------|
| <b>CULTIVARS</b>      |              |                     |                     |                  |
| 603                   | UC 603       | 1850 (6)            | 49.1                | 24               |
| 816                   | MAX          | 2000 (4)            | 49.4                | 23               |
| 933                   | UC 933       | 1840 (7)            | 50.4                | 23               |
| 951                   | MELTAN       | 1520 (17)           | 52.7                | 23               |
| 969                   | UC 969       | 1470 (20)           | 51.0                | 23               |
| 1047                  | ISHI         | 1330 (24)           | 47.2                | 21               |
| 1134                  | TAMALPAIS    | 1070 (29)           | 46.3                | 21               |
| <b>ADVANCED LINES</b> |              |                     |                     |                  |
| 1231                  | UCD 08YP 111 | 1150 (27)           | 47.6                | 20               |
| 1237                  | WWW BA4513   | 1620 (11)           | 49.6                | 25               |
| 1249                  | UCD B110     | 1810 (8)            | 53.7                | 23               |
| 1252                  | UCD B156     | 1170 (25)           | 48.1                | 25               |
| 1255                  | UCD B369     | 1400 (22)           | 51.4                | 25               |
| 1256                  | UCD B398     | 1670 (10)           | 48.3                | 21               |
| 1258                  | UCD A34      | 2240 (1)            | 48.4                | 27               |
| 1259                  | UCD B366     | 1500 (19)           | 44.3                | 24               |
| 1260                  | UCD B372     | 2000 (3)            | 47.8                | 24               |
| 1261                  | UCD A237     | 1520 (18)           | 44.5                | 24               |
| 1263                  | UCD C43      | 2060 (2)            | 50.8                | 21               |
| 1266                  | UCD C51      | 1750 (9)            | 52.8                | 27               |
| 1279                  | UCD 1279     | 1410 (21)           | 50.4                | 23               |
| 1280                  | UCD 1280     | 1560 (14)           | 45.9                | 24               |
| 1284                  | UCD 1284     | 1370 (23)           | 47.6                | 29               |
| 1286                  | UCD 1286     | 1520 (16)           | 50.2                | 26               |
| 1316                  | UCD 1316     | 1550 (15)           | 48.2                | 24               |
| 1321                  | UCD 1321     | 1160 (26)           | 54.7                | 26               |
| 1322                  | UCD 1322     | 1570 (13)           | 52.5                | 21               |
| 1325                  | UCD 1325     | 1580 (12)           | 49.7                | 21               |
| 1326                  | WWW BA4545   | 1110 (28)           | 43.4                | 23               |
| 1327                  | GEBSE        | 1850 (5)            | 52.7                | 25               |
|                       | MEAN         | 1570                | 49.3                | 23               |
|                       | CV           | 39.4                | 9.0                 | 13.6             |
|                       | LSD (.05)    | ns                  | ns                  | ns               |

Numbers in parentheses indicate relative rank in column.

2012 Rainfed Barley Stripe Rust Over Location Summary

| Entry                 | Name         | Stripe Rust     |      |                |            |               |
|-----------------------|--------------|-----------------|------|----------------|------------|---------------|
|                       |              | Mean<br>(3 Loc) |      | Fresno<br>5/21 | UCD<br>5/4 | Tehama<br>5/7 |
| <u>CULTIVARS</u>      |              |                 |      |                |            |               |
| 603                   | UC 603       | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 816                   | MAX          | 2.4             | (35) | 2.3            | 2.8        | 2.0           |
| 933                   | UC 933       | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 951                   | MELTAN       | 1.2             | (31) | 1.3            | 1.3        | 1.0           |
| 969                   | UC 969       | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1047                  | ISHI         | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1134                  | TAMALPAIS    | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| <u>ADVANCED LINES</u> |              |                 |      |                |            |               |
| 1231                  | UCD 08YP 111 | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1237                  | WWW BA4513   | 1.3             | (32) | 1.0            | 1.8        | 1.0           |
| 1249                  | UCD B110     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1252                  | UCD B156     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1255                  | UCD B369     | 1.1             | (30) | 1.0            | 1.3        | 1.0           |
| 1256                  | UCD B398     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1258                  | UCD A34      | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1259                  | UCD B366     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1260                  | UCD B372     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1261                  | UCD A237     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1263                  | UCD C43      | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1266                  | UCD C51      | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1279                  | UCD 1279     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1280                  | UCD 1280     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1284                  | UCD 1284     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1286                  | UCD 1286     | 1.0             | (1)  | 1.0            | 1.0        | 1.0           |
| 1316                  | UCD 1316     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1317                  | UCD 1317     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1318                  | UCD 1318     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1319                  | UCD 1319     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1320                  | UCD 1320     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1321                  | UCD 1321     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1322                  | UCD 1322     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1323                  | UCD 1323     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1324                  | UCD 1324     | 1.9             | (34) | 2.8            | 1.0        | -             |
| 1325                  | UCD 1325     | 1.0             | (1)  | 1.0            | 1.0        | -             |
| 1326                  | WWW BA4545   | 1.3             | (32) | 1.3            | 1.5        | 1.0           |
| 1327                  | GEBSE        | 1.0             | (1)  | 1.0            | 1.0        | -             |
|                       | MEAN         | 1.1             |      | 1.1            | 1.1        | 1.0           |
|                       | CV           | 20.2            |      | 15.4           | 25.2       | ns            |
|                       | LSD (.05)    | 0.2             |      | 0.2            | 0.4        | ns            |

Rating scale for foliar diseases (area of flag-1 leaf affected): 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

2010-12 Barley Over Year Yield Summary (lbs/acre)

| Entry                 | Name         | Sacramento Valley |                       |                       | San Joaquin Valley |                       |                       | Rainfed Tests   |                       |                        |
|-----------------------|--------------|-------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|-----------------|-----------------------|------------------------|
|                       |              | 2012<br>(3 Loc)   | 2011-12<br>(5 Loc/Yr) | 2010-12<br>(7 Loc/Yr) | 2012<br>(1 Loc)    | 2011-12<br>(2 Loc/Yr) | 2010-12<br>(3 Loc/Yr) | 2012<br>(5 Loc) | 2011-12<br>(9 Loc/Yr) | 2010-12<br>(12 Loc/Yr) |
| <b>CULTIVARS</b>      |              |                   |                       |                       |                    |                       |                       |                 |                       |                        |
| 603                   | UC 603       | 4980 (21)         | 4580 (15)             | 4580 (15)             | 3750 (31)          | 4560 (19)             | 5050 (16)             | 2250 (4)        | 3230 (14)             | 3410 (13)              |
| 816                   | MAX          | 4990 (20)         | 4340 (17)             | 4340 (17)             | 4950 (16)          | 5440 (14)             | 5530 (13)             | 1820 (20)       | 2860 (18)             | 2980 (16)              |
| 933                   | UC 933       | 6030 (11)         | 5430 (11)             | 5430 (11)             | 4620 (21)          | 5490 (13)             | 5780 (11)             | 1980 (16)       | 3450 (11)             | 3900 (11)              |
| 951                   | MELTAN       | 4340 (31)         | 4060 (18)             | 4060 (18)             | 4000 (27)          | 4520 (20)             | 4800 (17)             | 1700 (23)       | 3010 (16)             | 3270 (15)              |
| 969                   | UC 969       | 5160 (17)         | 4760 (14)             | 4760 (14)             | 4560 (23)          | 4800 (18)             | 4770 (18)             | 1620 (24)       | 3170 (15)             | 3560 (12)              |
| 1047                  | ISHI         | 6470 (3)          | 5850 (4)              | 5850 (4)              | 6120 (4)           | 6530 (3)              | 6800 (2)              | 2020 (15)       | 3830 (9)              | 4220 (1)               |
| 1134                  | TAMALPAIS    | 5590 (15)         | 4970 (12)             | 4970 (12)             | 4420 (24)          | 5010 (16)             | 5490 (14)             | 2080 (14)       | 2960 (17)             | 3320 (14)              |
| <b>ADVANCED LINES</b> |              |                   |                       |                       |                    |                       |                       |                 |                       |                        |
| 1231                  | UCD 08YP 111 | 6110 (8)          | 5720 (7)              | 5720 (7)              | 6140 (3)           | 6540 (2)              | 7050 (1)              | 1890 (18)       | 3870 (8)              | 4100 (7)               |
| 1237                  | WWW BA4513   | 4940 (22)         | -                     | -                     | 5280 (13)          | -                     | -                     | 2150 (9)        | -                     | -                      |
| 1249                  | UCD B110     | 6140 (6)          | 5690 (8)              | 5690 (8)              | 5810 (8)           | 6290 (8)              | 6520 (8)              | 2320 (3)        | 3800 (10)             | 4010 (10)              |
| 1252                  | UCD B156     | 5730 (13)         | 5510 (10)             | 5510 (10)             | 4880 (19)          | 5800 (12)             | 6360 (10)             | 2250 (5)        | 3950 (3)              | 4150 (4)               |
| 1255                  | UCD B369     | 6360 (5)          | 6010 (2)              | 6010 (2)              | 6150 (2)           | 6480 (4)              | 6750 (3)              | 2210 (6)        | 3940 (4)              | 4170 (2)               |
| 1256                  | UCD B398     | 6610 (2)          | 5990 (3)              | 5990 (3)              | 5640 (10)          | 6100 (10)             | 6640 (5)              | 1840 (19)       | 3980 (1)              | 4110 (6)               |
| 1258                  | UCD A34      | 5700 (14)         | 5550 (9)              | 5550 (9)              | 5590 (11)          | 6030 (11)             | 6400 (9)              | 2140 (10)       | 3920 (5)              | 4060 (8)               |
| 1259                  | UCD B366     | 6080 (9)          | 5730 (6)              | 5730 (6)              | 6000 (6)           | 6440 (5)              | 6610 (7)              | 2380 (2)        | 3870 (6)              | 4050 (9)               |
| 1260                  | UCD B372     | 6680 (1)          | 6200 (1)              | 6200 (1)              | 5910 (7)           | 6240 (9)              | 6630 (6)              | 2120 (12)       | 3960 (2)              | 4140 (5)               |
| 1261                  | UCD A237     | 6120 (7)          | 5760 (5)              | 5760 (5)              | 5680 (9)           | 6300 (7)              | 6710 (4)              | 1820 (21)       | 3870 (7)              | 4160 (3)               |
| 1263                  | UCD C43      | 4820 (26)         | 4410 (16)             | 4410 (16)             | 2900 (34)          | 4900 (17)             | 5440 (15)             | 2150 (8)        | 3310 (12)             | -                      |
| 1266                  | UCD C51      | 5360 (16)         | 4850 (13)             | 4850 (13)             | 3900 (28)          | 5280 (15)             | 5710 (12)             | 1790 (22)       | 3300 (13)             | -                      |
| 1279                  | UCD 1279     | 4860 (24)         | -                     | -                     | 4560 (22)          | -                     | -                     | 2120 (11)       | -                     | -                      |
| 1280                  | UCD 1280     | 5800 (12)         | -                     | -                     | 4930 (17)          | -                     | -                     | 2700 (1)        | -                     | -                      |
| 1284                  | UCD 1284     | 6420 (4)          | -                     | -                     | 6060 (5)           | 6410 (6)              | -                     | 2110 (13)       | -                     | -                      |
| 1286                  | UCD 1286     | 6070 (10)         | -                     | -                     | 6170 (1)           | 6570 (1)              | -                     | 2150 (7)        | -                     | -                      |
| 1316                  | UCD 1316     | 5020 (19)         | -                     | -                     | 3820 (30)          | -                     | -                     | -               | -                     | -                      |
| 1317                  | UCD 1317     | -                 | -                     | -                     | 4880 (20)          | -                     | -                     | -               | -                     | -                      |
| 1318                  | UCD 1318     | 4860 (25)         | -                     | -                     | 3640 (32)          | -                     | -                     | -               | -                     | -                      |
| 1319                  | UCD 1319     | 4440 (30)         | -                     | -                     | 4400 (25)          | -                     | -                     | -               | -                     | -                      |
| 1320                  | UCD 1320     | 5150 (18)         | -                     | -                     | 4990 (15)          | -                     | -                     | -               | -                     | -                      |
| 1321                  | UCD 1321     | 4710 (28)         | -                     | -                     | 3820 (29)          | -                     | -                     | -               | -                     | -                      |
| 1322                  | UCD 1322     | 4780 (27)         | -                     | -                     | 4920 (18)          | -                     | -                     | -               | -                     | -                      |
| 1323                  | UCD 1323     | -                 | -                     | -                     | 5020 (14)          | -                     | -                     | -               | -                     | -                      |
| 1324                  | UCD 1324     | 3550 (32)         | -                     | -                     | 3490 (33)          | -                     | -                     | -               | -                     | -                      |
| 1325                  | UCD 1325     | 4510 (29)         | -                     | -                     | 4290 (26)          | -                     | -                     | -               | -                     | -                      |
| 1326                  | WWW BA4545   | 4920 (23)         | -                     | -                     | 5540 (12)          | -                     | -                     | 1960 (17)       | -                     | -                      |
| 1327                  | GEBSE        | 2370 (33)         | -                     | -                     | 2400 (35)          | -                     | -                     | -               | -                     | -                      |
|                       | MEAN         | 5320              | 5300                  | 5300                  | 4990               | 5940                  | 6200                  | 1920            | 3460                  | 3580                   |
|                       | CV           | 15.4              | 14.8                  | 14.8                  | 9.6                | 6.7                   | 6.4                   | 28.2            | 17.1                  | 18.6                   |
|                       | LSD (.05)    | 660               | 490                   | ns                    | 680                | 400                   | 320                   | 440             | 340                   | 310                    |

Numbers in parentheses indicate relative rank in column.

2012 Intermountain Spring Barley Entry List

| Entry                 | Name         | Type   | Parentage  | Source    |
|-----------------------|--------------|--------|--|-----------|
| <u>CULTIVARS</u>      |              |        |  |           |
| 204                   | STEPTOE      | 6RSF   | WA3564/Unitan  | WSU       |
| 900                   | BARONESSE    | 2RSF   | (((Mentor x Minerva) x mut Vada) x [(Carlsberg x Union) x .....] | WB        |
| 960                   | UC 960       | 6RSF   | Sma1/SB401/3/Gus/KBY//Sma1                                       | UCD       |
| 1010                  | MILLENNIUM   | 6RSF   | UT87B603-1266/Short#2  | USU       |
| 1082                  | CONRAD       | 2RSM   | B1215/2B88-5336  | BARI      |
| 1217                  | AC Metcalfe  | 2RSM   | AC Oxbow/Manley  | AG Canada |
| 1297                  | CDC COPELAND | 2RSM   |  | ID        |
| 1299                  | MERIT 57     | 2RSM   |  | BARI      |
| 1300                  | PINNACLE     | 2RSM   |  | NDSU      |
| 1301                  | CELEBRATION  | 6RSM   |  | BARI      |
| 1302                  | STELLAR-ND   | 6RSM   |  | NDSU      |
| 1344                  | QUEST        | 6RSM   |  | MN        |
| 1345                  | RASMUSSEN    | 6RSM   |  | MN        |
| <u>ADVANCED LINES</u> |              |        |  |           |
| 1099                  | UCD-TL20     | 6RSF   | Colter/UC958   | UCD       |
| 1201                  | TLB 148      | 6RSF   | UC960/4/UC958/3/UT81B275-248//SDSS/Primus                        | UCD       |
| 1219                  | BZ502-265    | 2RSF   | 97-1115/Xena   | WB        |
| 1268                  | UCD 1A       | 6RSF   | STATEHOOD/UC 960 (F6)  | UCD       |
| 1274                  | UCD 4B       | 6RSF   | UC 933/RSI 617//UC 1047  | UCD       |
| 1278                  | UCD 10B      | 6RSF   | STUC B52   | UCD       |
| 1290                  | UCD 1290     | 6RSF   | Creel X UC 960 (F6)  | UCD       |
| 1292                  | UCD 1292     | 6RSF   | Creel X UC 960 (F6)  | UCD       |
| 1328                  | UCD 1328     | 6RSF-H | HY 34  | UCD       |
| 1329                  | UCD 1329     | 6RSF-H | HY 22  | UCD       |
| 1330                  | UCD 1330     | 6RSF-H | HY 10  | UCD       |
| 1331                  | UCD 1331     | 6RSF-H | TAMALPAIS/UC1118-7   | UCD       |
| 1332                  | UCD 1332     | 6RSF-H | HY 31  | UCD       |
| 1333                  | UCD 1333     | 2RSM   | 291B58/COORS373-A396   | UCD       |
| 1334                  | UCD 1334     | 2RSM   | 10MQI (CONRAD/MSEL)  | UCD       |
| 1335                  | UCD 1335     | 2RSM   | CB119/291B20-C323  | UCD       |
| 1336                  | UCD 1336     | 6RSF   | CREEL/UC960-10   | UCD       |
| 1337                  | UCD 1337     | 6RSF   | CREEL/UC960-24   | UCD       |
| 1338                  | UCD 1338     | 6RSF   | UC1099/UC1145  | UCD       |
| 1339                  | UCD 1339     | 6RSF   | UC1099/UC1145  | UCD       |
| 1340                  | UCD 1340     | 6RSF   | UC1099/UC1145  | UCD       |
| 1341                  | UCD 1341     | 6RSF   | CREEL/UC960-5  | UCD       |
| 1342                  | UCD 1342     | 6RSF   | CREEL/UC960-1  | UCD       |
| 1343                  | UCD 1343     | 6RSF-H | HY 38  | UCD       |

37 Entries

TYPE: 6RSF = 6-row spring feed; 6RSM = 6-row spring malt; 2RSF = 2-row spring feed; 2RSM = 2-row spring malt  
 SOURCE: AG Canada = Agricultural and Agri-foods, Canada; BARI = Busch Agricultural Resources, Inc.;  
 ID = University of Idaho, USDA/ARS, Aberdeen, ID; MN = University of Minnesota; MT = University of Montana;  
 NDSU = North Dakota State University; OSU = Oregon State University; UCD = University of California, Davis;  
 USASK = University of Saskatchewan; USU = Utah State University;  
 WB = WESTBRED, LLC; WSU = Washington State University

2012 Lassen Spring Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Lodging<br>Harvest |
|-----------------------|--------------|---------------------|---------------------|------------------|--------------------|
| <u>CULTIVARS</u>      |              |                     |                     |                  |                    |
| 204                   | STEPTOE      | 3590 (4)            | 48.1                | 29               | 1.0                |
| 900                   | BARONESSE    | 3000 (13)           | 49.5                | 31               | 1.0                |
| 960                   | UC 960       | 3320 (9)            | 47.4                | 24               | 1.0                |
| 1010                  | MILLENNIUM   | 2660 (23)           | 47.6                | 28               | 1.0                |
| 1082                  | CONRAD       | 2080 (35)           | 45.7                | 31               | 1.0                |
| 1217                  | AC Metcalfe  | 2300 (30)           | 49.0                | 29               | 1.0                |
| 1297                  | CDC COPELAND | 2160 (33)           | 48.5                | 27               | 1.0                |
| 1299                  | MERIT 57     | 2300 (29)           | 47.8                | 29               | 1.0                |
| 1300                  | PINNACLE     | 2010 (37)           | 49.3                | 29               | 1.0                |
| 1301                  | CELEBRATION  | 2720 (21)           | 50.4                | 32               | 1.0                |
| 1302                  | STELLAR-ND   | 3240 (11)           | 51.4                | 32               | 1.0                |
| 1344                  | QUEST        | 3040 (12)           | 50.8                | 34               | 1.3                |
| 1345                  | RASMUSSEN    | 3270 (10)           | 52.0                | 30               | 1.0                |
| <u>ADVANCED LINES</u> |              |                     |                     |                  |                    |
| 1099                  | UCD-TL20     | 3370 (8)            | 49.6                | 27               | 1.0                |
| 1201                  | TLB 148      | 2930 (15)           | 47.4                | 26               | 1.0                |
| 1219                  | BZ502-265    | 2120 (34)           | 46.5                | 31               | 1.0                |
| 1268                  | UCD 1A       | 3450 (6)            | 47.3                | 25               | 1.0                |
| 1274                  | UCD 4B       | 2900 (16)           | 47.7                | 27               | 1.0                |
| 1278                  | UCD 10B      | 3870 (2)            | 51.0                | 29               | 1.0                |
| 1290                  | UCD 1290     | 2800 (18)           | 48.5                | 31               | 1.0                |
| 1292                  | UCD 1292     | 2290 (31)           | 48.1                | 24               | 1.0                |
| 1328                  | UCD 1328     | 2520 (28)           | 58.6                | 26               | 1.0                |
| 1329                  | UCD 1329     | 2880 (17)           | 55.3                | 27               | 1.0                |
| 1330                  | UCD 1330     | 2620 (24)           | 58.2                | 22               | 1.0                |
| 1331                  | UCD 1331     | 2530 (27)           | 57.2                | 25               | 1.0                |
| 1332                  | UCD 1332     | 3410 (7)            | 54.9                | 26               | 1.0                |
| 1333                  | UCD 1333     | 2040 (36)           | 49.4                | 23               | 1.0                |
| 1334                  | UCD 1334     | 2220 (32)           | 48.4                | 28               | 1.0                |
| 1335                  | UCD 1335     | 2940 (14)           | 51.0                | 24               | 1.0                |
| 1336                  | UCD 1336     | 2530 (26)           | 47.9                | 29               | 1.0                |
| 1337                  | UCD 1337     | 2750 (20)           | 48.1                | 27               | 1.0                |
| 1338                  | UCD 1338     | 3630 (3)            | 50.4                | 32               | 1.0                |
| 1339                  | UCD 1339     | 4240 (1)            | 51.0                | 30               | 1.0                |
| 1340                  | UCD 1340     | 3530 (5)            | 50.0                | 29               | 1.0                |
| 1341                  | UCD 1341     | 2700 (22)           | 46.0                | 25               | 1.0                |
| 1342                  | UCD 1342     | 2770 (19)           | 45.8                | 31               | 1.0                |
| 1343                  | UCD 1343     | 2600 (25)           | 55.5                | 28               | 1.0                |
| <hr/>                 |              |                     |                     |                  |                    |
|                       | MEAN         | 2850                | 50.0                | 28               | 1.0                |
|                       | CV           | 17.4                | 1.5                 | 6                | 9.4                |
|                       | LSD (.05)    | 810                 | 1.5                 | 3                | ns                 |

Rating scale for lodging: 1 = 0-3%, 2 = 4-14%,  
 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.  
 Numbers in parentheses indicate relative rank in column.



2012 Siskiyou Spring Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | 1000             |                  | Lodging       |         | Stripe<br>Rust | Scald | Xanthomonas |
|-----------------------|--------------|---------------------|---------------------|------------------|------------------|---------------|---------|----------------|-------|-------------|
|                       |              |                     |                     | Kernel Wt<br>(g) | Plant Ht<br>(in) | Soft<br>Dough | Harvest |                |       |             |
| <b>CULTIVARS</b>      |              |                     |                     |                  |                  |               |         |                |       |             |
| 204                   | STEPTOE      | 5160 (35)           | 51.4                | 48.8             | 36               | 3.3           | 3.0     | 2.3            | 1.0   | 1.0         |
| 900                   | BARONESSE    | 6070 (20)           | 54.7                | 45.0             | 36               | 5.3           | 5.3     | 1.0            | 1.0   | 1.0         |
| 960                   | UC 960       | 6610 (12)           | 50.8                | 43.5             | 34               | 1.0           | 2.0     | 1.0            | 1.0   | 1.0         |
| 1010                  | MILLENNIUM   | 7250 (3)            | 52.4                | 40.3             | 38               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1082                  | CONRAD       | 5970 (23)           | 53.1                | 44.4             | 38               | 2.0           | 1.7     | 1.0            | 1.0   | 1.0         |
| 1217                  | AC METCALFE  | 5400 (32)           | 53.7                | 46.4             | 43               | 3.3           | 3.3     | 1.0            | 1.0   | 1.0         |
| 1297                  | CDC COPELAND | 5430 (31)           | 53.1                | 45.9             | 41               | 4.3           | 4.7     | 1.0            | 1.0   | 1.0         |
| 1299                  | MERIT 57     | 4970 (37)           | 52.3                | 42.1             | 38               | 5.7           | 6.0     | 1.0            | 1.0   | 1.0         |
| 1300                  | PINNACLE     | 6040 (21)           | 55.1                | 53.5             | 40               | 1.3           | 1.7     | 2.7            | 1.7   | 1.0         |
| 1301                  | CELEBRATION  | 6440 (15)           | 52.2                | 38.2             | 41               | 3.0           | 3.3     | 1.3            | 1.0   | 1.0         |
| 1302                  | STELLAR-ND   | 5620 (28)           | 53.4                | 42.6             | 38               | 1.0           | 1.3     | 2.3            | 1.0   | 1.0         |
| 1344                  | QUEST        | 5680 (26)           | 53.3                | 37.4             | 41               | 3.3           | 5.0     | 1.0            | 1.0   | 1.0         |
| 1345                  | RASMUSSEN    | 6250 (16)           | 53.9                | 42.3             | 39               | 3.0           | 2.7     | 1.0            | 1.0   | 1.0         |
| <b>ADVANCED LINES</b> |              |                     |                     |                  |                  |               |         |                |       |             |
| 1099                  | UCD-TL20     | 6940 (7)            | 50.8                | 42.2             | 36               | 2.0           | 1.3     | 1.0            | 1.0   | 1.0         |
| 1201                  | TLB 148      | 7330 (2)            | 50.5                | 46.9             | 36               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1219                  | BZ502-265    | 5920 (24)           | 53.5                | 46.6             | 37               | 2.0           | 2.7     | 1.0            | 1.0   | 1.0         |
| 1268                  | UCD 1A       | 5240 (34)           | 48.7                | 42.4             | 35               | 1.3           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1274                  | UCD 4B       | 7090 (5)            | 49.1                | 42.8             | 32               | 2.3           | 3.7     | 1.0            | 1.0   | 1.0         |
| 1278                  | UCD 10B      | 7630 (1)            | 51.1                | 41.1             | 36               | 4.7           | 5.0     | 1.0            | 1.0   | 1.0         |
| 1290                  | UCD 1290     | 6680 (10)           | 51.8                | 47.8             | 37               | 1.0           | 1.0     | 2.3            | 1.0   | 1.0         |
| 1292                  | UCD 1292     | 6970 (6)            | 52.1                | 45.3             | 36               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1328                  | UCD 1328     | 5120 (36)           | 54.0                | 38.4             | 37               | 4.3           | 5.3     | 1.3            | 1.0   | 1.0         |
| 1329                  | UCD 1329     | 6490 (14)           | 51.2                | 43.6             | 34               | 2.7           | 4.0     | 1.0            | 1.0   | 1.0         |
| 1330                  | UCD 1330     | 5300 (33)           | 51.6                | 39.9             | 36               | 3.0           | 4.0     | 1.0            | 1.0   | 1.0         |
| 1331                  | UCD 1331     | 5440 (30)           | 51.9                | 41.5             | 35               | 3.0           | 4.3     | 1.0            | 1.0   | 1.0         |
| 1332                  | UCD 1332     | 5650 (27)           | 52.5                | 42.6             | 35               | 2.7           | 4.0     | 1.0            | 1.0   | 1.0         |
| 1333                  | UCD 1333     | 5700 (25)           | 53.4                | 47.4             | 32               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1334                  | UCD 1334     | 6080 (19)           | 54.1                | 49.1             | 37               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1335                  | UCD 1335     | 6880 (8)            | 54.9                | 54.0             | 40               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1336                  | UCD 1336     | 6540 (13)           | 52.8                | 39.4             | 39               | 1.0           | 1.0     | 1.0            | 1.0   | 1.0         |
| 1337                  | UCD 1337     | 6090 (18)           | 52.8                | 40.6             | 34               | 1.0           | 1.3     | 1.0            | 1.0   | 1.0         |
| 1338                  | UCD 1338     | 5470 (29)           | 50.0                | 37.1             | 38               | 4.7           | 5.3     | 1.0            | 1.0   | 1.0         |
| 1339                  | UCD 1339     | 6730 (9)            | 50.1                | 38.1             | 37               | 3.0           | 5.7     | 1.0            | 1.3   | 1.3         |
| 1340                  | UCD 1340     | 6640 (11)           | 49.7                | 38.0             | 39               | 3.0           | 4.7     | 1.0            | 1.0   | 1.0         |
| 1341                  | UCD 1341     | 7100 (4)            | 49.8                | 40.7             | 36               | 2.3           | 3.7     | 1.0            | 1.0   | 1.0         |
| 1342                  | UCD 1342     | 6240 (17)           | 51.7                | 42.9             | 40               | 2.7           | 2.0     | 1.0            | 1.0   | 1.0         |
| 1343                  | UCD 1343     | 6000 (22)           | 53.2                | 41.4             | 37               | 3.7           | 3.3     | 1.0            | 1.0   | 1.0         |
| MEAN                  |              | 6170                | 52.2                | 43.2             | 37               | 2.5           | 3.0     | 1.2            | 1.0   | 1.0         |
| CV                    |              | 13.2                | 1.4                 | 4.5              | 7.8              | 71.2          | 65.7    | 50.4           | 20.4  | 9.4         |
| LSD (.05)             |              | 1320                | 1.5                 | 3.9              | 5                | 2.9           | 3.2     | 1.0            | ns    | ns          |

Rating scale for diseases (area of flag-1 leaf affected), and lodging: 1 = 0-3%, 2 = 4-14%,

3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

## 2012 Tulelake Spring Barley Trial

| Entry                 | Name         | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Days To               | Lodging       |         | Shatter | Xanthomonas |
|-----------------------|--------------|---------------------|---------------------|------------------|-----------------------|---------------|---------|---------|-------------|
|                       |              |                     |                     |                  | Heading<br>From (1/1) | Soft<br>Dough | Harvest |         |             |
| <u>CULTIVARS</u>      |              |                     |                     |                  |                       |               |         |         |             |
| 204                   | STEPTOE      | 6940 (30)           | 50.8                | 37               | 181                   | 1.0           | 5.0     | 1.3     | 1.0         |
| 900                   | BARONESSE    | 4640 (37)           | 52.7                | 37               | 183                   | 1.0           | 6.0     | 5.0     | 1.0         |
| 960                   | UC 960       | 8260 (12)           | 50.8                | 31               | 178                   | 1.0           | 2.0     | 1.0     | 1.3         |
| 1010                  | MILLENNIUM   | 8110 (17)           | 52.5                | 43               | 171                   | 1.0           | 1.0     | 1.0     | 1.3         |
| 1082                  | CONRAD       | 7020 (28)           | 53.3                | 36               | 180                   | 5.7           | 5.3     | 1.7     | 1.0         |
| 1217                  | AC METCALFE  | 5250 (36)           | 52.7                | 38               | 181                   | 1.0           | 7.0     | 3.3     | 1.0         |
| 1297                  | CDC COPELAND | 5520 (35)           | 53.2                | 38               | 182                   | 6.7           | 7.0     | 1.0     | 1.3         |
| 1299                  | MERIT 57     | 5910 (34)           | 53.5                | 36               | 181                   | 6.3           | 6.3     | 1.3     | 2.7         |
| 1300                  | PINNACLE     | 6400 (33)           | 55.0                | 38               | 176                   | 5.0           | 5.0     | 1.7     | 3.3         |
| 1301                  | CELEBRATION  | 7390 (24)           | 54.3                | 37               | 172                   | 1.0           | 6.0     | 2.3     | 1.0         |
| 1302                  | STELLAR-ND   | 6850 (31)           | 54.4                | 38               | 175                   | 1.0           | 3.0     | 2.0     | 1.0         |
| 1344                  | QUEST        | 6650 (32)           | 53.9                | 43               | 174                   | 2.7           | 4.0     | 2.3     | 1.0         |
| 1345                  | RASMUSSEN    | 8390 (11)           | 53.5                | 37               | 174                   | 1.0           | 5.3     | 1.7     | 3.0         |
| <u>ADVANCED LINES</u> |              |                     |                     |                  |                       |               |         |         |             |
| 1099                  | UCD-TL20     | 8770 (7)            | 51.2                | 38               | 180                   | 1.0           | 1.3     | 1.0     | 4.0         |
| 1201                  | TLB 148      | 9400 (3)            | 52.2                | 38               | 181                   | 1.0           | 1.0     | 1.0     | 1.7         |
| 1219                  | BZ502-265    | 7460 (23)           | 54.7                | 38               | 181                   | 5.3           | 5.3     | 1.3     | 1.0         |
| 1268                  | UCD 1A       | 8160 (15)           | 48.4                | 34               | 180                   | 1.0           | 1.0     | 1.0     | 2.7         |
| 1274                  | UCD 4B       | 7820 (19)           | 50.6                | 35               | 187                   | 3.0           | 5.3     | 1.0     | 4.0         |
| 1278                  | UCD 10B      | 8950 (5)            | 52.9                | 39               | 174                   | 1.3           | 3.3     | 1.3     | 2.7         |
| 1290                  | UCD 1290     | 8650 (8)            | 52.0                | 41               | 174                   | 1.0           | 2.0     | 1.0     | 1.0         |
| 1292                  | UCD 1292     | 8600 (9)            | 52.7                | 37               | 179                   | 1.0           | 1.7     | 1.0     | 1.0         |
| 1328                  | UCD 1328     | 7000 (29)           | 54.4                | 37               | 187                   | 2.0           | 3.3     | 1.0     | 1.0         |
| 1329                  | UCD 1329     | 8200 (13)           | 50.7                | 35               | 184                   | 1.3           | 3.3     | 1.0     | 2.3         |
| 1330                  | UCD 1330     | 8790 (6)            | 50.8                | 36               | 188                   | 2.0           | 3.3     | 1.0     | 1.0         |
| 1331                  | UCD 1331     | 8170 (14)           | 51.2                | 37               | 185                   | 1.3           | 4.0     | 1.0     | 3.0         |
| 1332                  | UCD 1332     | 8530 (10)           | 51.1                | 32               | 184                   | 1.0           | 2.0     | 1.0     | 1.0         |
| 1333                  | UCD 1333     | 7810 (20)           | 55.6                | 33               | 182                   | 1.0           | 5.0     | 1.3     | 1.0         |
| 1334                  | UCD 1334     | 7270 (26)           | 54.9                | 34               | 177                   | 1.3           | 2.0     | 1.0     | 1.0         |
| 1335                  | UCD 1335     | 7740 (21)           | 55.6                | 33               | 185                   | 1.0           | 3.7     | 1.3     | 1.3         |
| 1336                  | UCD 1336     | 7340 (25)           | 52.8                | 42               | 175                   | 2.0           | 2.7     | 1.3     | 2.3         |
| 1337                  | UCD 1337     | 9380 (4)            | 52.3                | 38               | 173                   | 1.3           | 1.3     | 1.0     | 2.7         |
| 1338                  | UCD 1338     | 8000 (18)           | 51.0                | 42               | 176                   | 3.3           | 4.3     | 1.3     | 2.3         |
| 1339                  | UCD 1339     | 9570 (2)            | 52.1                | 42               | 175                   | 1.3           | 2.3     | 1.0     | 4.0         |
| 1340                  | UCD 1340     | 8120 (16)           | 51.3                | 38               | 175                   | 2.0           | 4.7     | 1.0     | 1.0         |
| 1341                  | UCD 1341     | 9720 (1)            | 50.0                | 33               | 184                   | 1.0           | 1.7     | 1.0     | 2.3         |
| 1342                  | UCD 1342     | 7110 (27)           | 50.3                | 37               | 176                   | 4.7           | 3.7     | 1.0     | 1.0         |
| 1343                  | UCD 1343     | 7660 (22)           | 55.0                | 36               | 186                   | 1.0           | 2.7     | 1.0     | 1.7         |
| MEAN                  |              | 7720                | 52.5                | 37               | 179                   | 2.1           | 3.6     | 1.4     | 1.9         |
| CV                    |              | 9.6                 | 2.2                 | 7.1              | 1.1                   | 45.0          | 33.5    | 38.9    | 43.8        |
| LSD (.05)             |              | 1200                | 2.4                 | 4                | 3                     | 1.5           | 2.0     | 0.9     | 1.3         |

Rating scale for diseases (area of flag-1 leaf affected), lodging, and shatter: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

Numbers in parentheses indicate relative rank in column.

2010-12 Intermountain Spring Barley Yield Summary

| Entry                 | Name         | 2012<br>(3 Loc) | 2011-12<br>(6 Loc/Yr) | 2010-12<br>(9 Loc/Yr) |
|-----------------------|--------------|-----------------|-----------------------|-----------------------|
| <u>CULTIVARS</u>      |              |                 |                       |                       |
| 204                   | STEPTOE      | 5230 (26)       | 5590 (9)              | 5500 (8)              |
| 900                   | BARONESSE    | 4570 (34)       | 4840 (12)             | 4970 (9)              |
| 960                   | UC 960       | 6060 (8)        | 5870 (6)              | 5640 (7)              |
| 1010                  | MILLENNIUM   | 6010 (10)       | 6150 (4)              | 6020 (3)              |
| 1082                  | CONRAD       | 5020 (31)       | 4720 (13)             | 4890 (10)             |
| 1217                  | AC METCALFE  | 4320 (37)       | 4340 (14)             | 4360 (12)             |
| 1297                  | CDC COPELAND | 4370 (36)       | -                     | -                     |
| 1299                  | MERIT 57     | 4400 (35)       | -                     | -                     |
| 1300                  | PINNACLE     | 4810 (33)       | -                     | -                     |
| 1301                  | CELEBRATION  | 5520 (20)       | -                     | -                     |
| 1302                  | STELLAR-ND   | 5230 (25)       | -                     | -                     |
| 1344                  | QUEST        | 5120 (30)       | -                     | -                     |
| 1345                  | RASMUSSEN    | 5970 (11)       | -                     | -                     |
| <u>ADVANCED LINES</u> |              |                 |                       |                       |
| 1099                  | UCD-TL20     | 6360 (5)        | 6200 (3)              | 5850 (5)              |
| 1201                  | TLB 148      | 6550 (3)        | 6500 (1)              | 6230 (1)              |
| 1219                  | BZ502-265    | 5170 (29)       | 4930 (11)             | 4880 (11)             |
| 1268                  | UCD 1A       | 5620 (18)       | 5920 (5)              | 5860 (4)              |
| 1274                  | UCD 4B       | 5940 (13)       | 5830 (7)              | 5820 (6)              |
| 1278                  | UCD 10B      | 6820 (2)        | 6350 (2)              | 6100 (2)              |
| 1290                  | UCD 1290     | 6050 (9)        | 5700 (8)              | -                     |
| 1292                  | UCD 1292     | 5950 (12)       | 5400 (10)             | -                     |
| 1328                  | UCD 1328     | 4880 (32)       | -                     | -                     |
| 1329                  | UCD 1329     | 5860 (15)       | -                     | -                     |
| 1330                  | UCD 1330     | 5570 (19)       | -                     | -                     |
| 1331                  | UCD 1331     | 5380 (23)       | -                     | -                     |
| 1332                  | UCD 1332     | 5860 (14)       | -                     | -                     |
| 1333                  | UCD 1333     | 5180 (28)       | -                     | -                     |
| 1334                  | UCD 1334     | 5190 (27)       | -                     | -                     |
| 1335                  | UCD 1335     | 5850 (16)       | -                     | -                     |
| 1336                  | UCD 1336     | 5470 (21)       | -                     | -                     |
| 1337                  | UCD 1337     | 6070 (7)        | -                     | -                     |
| 1338                  | UCD 1338     | 5700 (17)       | -                     | -                     |
| 1339                  | UCD 1339     | 6850 (1)        | -                     | -                     |
| 1340                  | UCD 1340     | 6100 (6)        | -                     | -                     |
| 1341                  | UCD 1341     | 6510 (4)        | -                     | -                     |
| 1342                  | UCD 1342     | 5370 (24)       | -                     | -                     |
| 1343                  | UCD 1343     | 5420 (22)       | -                     | -                     |
| <hr/>                 |              |                 |                       |                       |
|                       | MEAN         | 5580            | 5590                  | 5500                  |
|                       | CV           | 12.5            | 12.7                  | 12                    |
|                       | LSD (.05)    | 650             | 470                   | 350                   |

Numbers in parentheses indicate relative rank in column.

2012 Western Regional Spring Barley Nursery

| Entry | Name                | Type  | Grade         | Parentage                             | Source   |
|-------|---------------------|-------|---------------|---------------------------------------|----------|
| 1     | Steptoe             | 6 row | feed          | CI 15229                              | WSU      |
| 2     | Baronesse           | 2 row | feed          | PI 568246                             | WPB      |
| 3     | Harrington          | 2 row | malting       |                                       | USDA-ARS |
| 4     | AC Metcalfe         | 2 row | malting       |                                       | USDA-ARS |
| 5     | 2B09-3408           | 2 row | malting       |                                       | BARI     |
| 6     | 2B09-3944           | 2 row | malting       |                                       | BARI     |
| 7     | 2B09-3998           | 2 row | malting       |                                       | BARI     |
| 8     | 2B09-4049           | 2 row | malting       |                                       | BARI     |
| 9     | 01Ab9663            | 6 row | malting       | 93Ab375//92Ab5189/M83                 | USDA-ARS |
| 10    | 2Ab04-X01084-27     | 2 row | malting       | 98Ab11993/Garnet                      | USDA-ARS |
| 11    | 2Ab07-X031098-31    | 2 row | malting       | 2B97-4004/Newdale                     | USDA-ARS |
| 12    | 2Ab09-X06F058HL-21  | 2 row | hulless,Food  | 02HR-4590/CDC Fibar                   | USDA-ARS |
| 13    | 2Ab07-X04M219-46    | 2 row | malting       | 95SR316A/2B97-4004                    | USDA-ARS |
| 14    | 2Ab09-X06F058HL-30  | 2 row | hulless,Food  | 02HR-4590/CDC Fibar                   | USDA-ARS |
| 15    | 2Ab07-X04M281-32    | 2 row | malting       | 2B97-4004/Newdale                     | USDA-ARS |
| 16    | 2Ab09-X06F058HL-195 | 2 row | hulless,Food  | 02HR-4590/CDC Fibar                   | USDA-ARS |
| 17    | 08ID1549            | 2 row | hulless, feed | Spaulding/Clearwater                  | USDA-ARS |
| 18    | 08ID2661            | 2 row | feed          | 04lpa-10/Tetonia                      | USDA-ARS |
| 19    | MT061035            | 2 row | feed          |                                       | MSU      |
| 20    | MT070158            | 2 row | feed          |                                       | MSU      |
| 21    | MT070159            | 2 row | feed          |                                       | MSU      |
| 22    | MT080279            | 3 row | feed          |                                       | MSU      |
| 23    | 2ND25276            | 2 row | malting       | ND20802/3/ND1922//ND19929/ND20177     | NDSU     |
| 24    | 2ND26333            | 2 row | malting       | ND22032-2/ND21972                     | NDSU     |
| 25    | UT04B2041-42        | 6 row | feed          | Goldeneye/Columbia                    | USU      |
| 26    | UT6R2120-14         | 6 row | feed          |                                       | USU      |
| 27    | 05WA-316.K          | 2 row | feed          | Baronesse/PB1-95-2R-522               | WSU      |
| 28    | 05WA-316.99         | 2 row | feed          | Baronesse/PB1-95-2R-522               | WSU      |
| 29    | 07WA-614.4          | 2 row | feed          | Bob/Baronesse//85Ab2323/3/WA 10497-97 | WSU      |
| 30    | 07WA-682.1          | 2 row | malting       | WA 10701-99/ AC Metcalfe              | WSU      |
| 31    | 2004NZ151           | 2 row | feed          | 00NZ304xCellar                        | WSU      |
| 32    | 2004NZ163           | 2 row | feed          | 00NZ304x85Ab2323                      | WSU      |
| 33    | 2008NZ003           | 6-row | malting       | Tradition*01NZ706 F4 Bulk             | WSU      |
| 34    | 2008NZ004           | 6-row | malting       | Tradition*01NZ706 F4 Bulk             | WSU      |
| 35    | 2008NZ013           | 6-row | malting       | Tradition*01NZ706 F4 Bulk             | WSU      |
| 36    | CDC Kindersley      | 2 row | malting       | SM00490/BM9647D-64                    | USASK    |

36 Entries

SOURCE: BARI = Busch Agricultural Resources, Inc.; MSU = Montana State University;  
 NDSU = North Dakota State University; USASK = University of Saskatchewan;  
 USDA-ARS = University of Idaho, USDA/ARS, Aberdeen, ID; USU = Utah State University;  
 WSU = Washington State University

2012 Tulelake WRSBN Trial  
(Western Regional Spring Barley Nursery)

| Entry     | Name               | Yield<br>(lbs/acre) | Test Wt<br>(lbs/bu) | Plant Ht<br>(in) | Days To               | Lodging | Shatter |
|-----------|--------------------|---------------------|---------------------|------------------|-----------------------|---------|---------|
|           |                    |                     |                     |                  | Heading<br>From (1/1) | Harvest |         |
| 1         | Step toe           | 6940 (2)            | 50.8                | 37               | 181                   | 5.0     | 1.3     |
| 2         | Baronesse          | 4640 (31)           | 52.7                | 37               | 183                   | 6.0     | 5.0     |
| 3         | Harrington         | 4120 (35)           | 52.2                | 37               | 184                   | 6.0     | 4.7     |
| 4         | AC Metcalfe        | 5250 (17)           | 52.7                | 38               | 181                   | 7.0     | 3.3     |
| 5         | 2B09-3408          | 4810 (27)           | 51.4                | 38               | 182                   | 6.0     | 1.3     |
| 6         | 2B09-3944          | 5160 (20)           | 53.0                | 36               | 181                   | 6.0     | 1.7     |
| 7         | 2B09-3998          | 5700 (8)            | 52.4                | 38               | 179                   | 7.0     | 2.7     |
| 8         | 2B09-4049          | 5910 (5)            | 53.3                | 34               | 183                   | 6.3     | 2.0     |
| 9         | 01Ab9663           | 4720 (29)           | 52.0                | 46               | 180                   | 6.0     | 2.3     |
| 10        | 2Ab04-X01084-27    | 5010 (23)           | 53.2                | 37               | 183                   | 6.3     | 2.7     |
| 11        | 2Ab07-X031098-31   | 5300 (15)           | 52.0                | 39               | 184                   | 6.1     | 4.0     |
| 12        | 2Ab09-X06F058HL-21 | 5200 (19)           | 59.0                | 36               | 183                   | 5.0     | 3.0     |
| 13        | 2Ab07-X04M219-46   | 5020 (22)           | 52.2                | 38               | 189                   | 7.0     | 3.7     |
| 14        | 2Ab09-X06F058HL-30 | 4530 (32)           | 58.1                | 41               | 185                   | 4.3     | 1.3     |
| 15        | 2Ab07-X04M281-32   | 4390 (34)           | 53.1                | 37               | 185                   | 7.3     | 4.0     |
| 16        | 2Ab09-X06F058HL-19 | 3380 (36)           | 56.7                | 39               | 183                   | 6.3     | 2.0     |
| 17        | 08ID1549           | 4830 (26)           | 59.3                | 40               | 184                   | 4.7     | 4.3     |
| 18        | 08ID2661           | 4930 (24)           | 50.6                | 36               | 188                   | 6.3     | 2.7     |
| 19        | MT061035           | 5230 (18)           | 51.6                | 37               | 184                   | 7.0     | 2.0     |
| 20        | MT070158           | 5290 (16)           | 53.2                | 38               | 181                   | 6.7     | 2.7     |
| 21        | MT070159           | 5670 (11)           | 53.8                | 35               | 181                   | 6.7     | 4.0     |
| 22        | MT080279           | 6190 (3)            | 54.5                | 35               | 181                   | 6.0     | 1.7     |
| 23        | 2ND25276           | 4770 (28)           | 51.8                | 37               | 180                   | 6.3     | 3.7     |
| 24        | 2ND26333           | 5770 (7)            | 55.5                | 36               | 176                   | 5.0     | 3.7     |
| 25        | UT04B2041-42       | 5360 (13)           | 53.0                | 38               | 179                   | 7.0     | 2.0     |
| 26        | UT6R2120-14        | 7360 (1)            | 52.1                | 40               | 177                   | 4.7     | 1.3     |
| 27        | 05WA-316.K         | 4850 (25)           | 52.4                | 35               | 180                   | 7.3     | 2.0     |
| 28        | 05WA-316.99        | 4680 (30)           | 52.0                | 34               | 184                   | 7.0     | 2.7     |
| 29        | 07WA-614.4         | 4390 (33)           | 52.7                | 38               | 183                   | 6.3     | 2.7     |
| 30        | 07WA-682.1         | 5320 (14)           | 53.5                | 40               | 184                   | 7.3     | 2.7     |
| 31        | 2004NZ151          | 5390 (12)           | 52.4                | 34               | 187                   | 6.3     | 1.7     |
| 32        | 2004NZ163          | 6100 (4)            | 53.1                | 34               | 187                   | 6.0     | 2.7     |
| 33        | 2008NZ003          | 5880 (6)            | 53.7                | 43               | 182                   | 4.3     | 3.0     |
| 34        | 2008NZ004          | 5700 (9)            | 53.4                | 43               | 182                   | 6.3     | 1.3     |
| 35        | 2008NZ013          | 5690 (10)           | 53.2                | 42               | 183                   | 6.7     | 2.0     |
| 36        | CDC Kindersley     | 5060 (21)           | 53.8                | 41               | 181                   | 6.3     | 4.7     |
| MEAN      |                    | 5240                | 53.4                | 38               | 182                   | 6.2     | 2.7     |
| CV        |                    | 16.1                | 2.0                 | 5.1              | 0.9                   | 20.0    | 45.1    |
| LSD (.05) |                    | 1380                | 2.2                 | 3                | 3                     | ns      | 2.0     |

Rating scale for lodging and shatter: 1 = 0-3%, 2 = 4-14%,  
3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.  
Numbers in parentheses indicate relative rank in column.