

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



October 2013 – No. 316

2013 REGIONAL BARLEY, COMMON WHEAT AND TRITICALE, AND DURUM WHEAT PERFORMANCE TESTS IN CALIFORNIA¹

P. Mayo¹, D. Prato³, J. Fraser¹, L. Jackson⁴, L.W. Gallagher², O. Chicaiza², A. del Blanco², F.T. Maciel¹, G. Banuelos⁶, D. Kirby⁵, R. Wilson⁷, D. Marcum⁷, B. Marsh⁷, S. Orloff⁷, D. Munier⁷, S. Wright⁷ and J. Dubcovsky².

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 2013. 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 (44 entries) was evaluated at six sites and spring-sown spring barley (44 entries) was evaluated at two sites. Fall-sown winter wheat (54 entries) was evaluated at two sites; fall-sown spring wheat and triticale (56 entries), at ten sites (not all entries were evaluated at all sites); and spring-sown spring wheat (41 entries), at two sites. Durum wheat (41 entries) was evaluated at four 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 83 to 143 lbs/acre for common wheat, 74 to 118 lbs/acre for triticale, and from 101 to 171 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 69 to 119 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 2013 consisted of an estimated 690,000 acres of wheat (including 71,000 acres of durum), 90,000 acres of barley, and 200,000 acres of oats. Total 2013 estimated wheat planted in California was slightly lower than last year's estimated plantings with a significant decrease in the acreage of durum planted.

¹These 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.

¹Staff Research Associate, ²Geneticist/Breeder, ³Lab Assistant, Dept. of Plant Sciences, UC Davis, ⁴Extension Specialist (Retired), ⁵Staff Research Associate, UC IREC, Tulare, ⁶Staff Research Associate, UCCE, Tulare/Kings, and ⁷UC Cooperative Extension Farm Advisors at UC IREC, Lassen, Kern, Siskiyou, Glenn/Tehama/Butte, and Kings/Tulare counties, respectively.

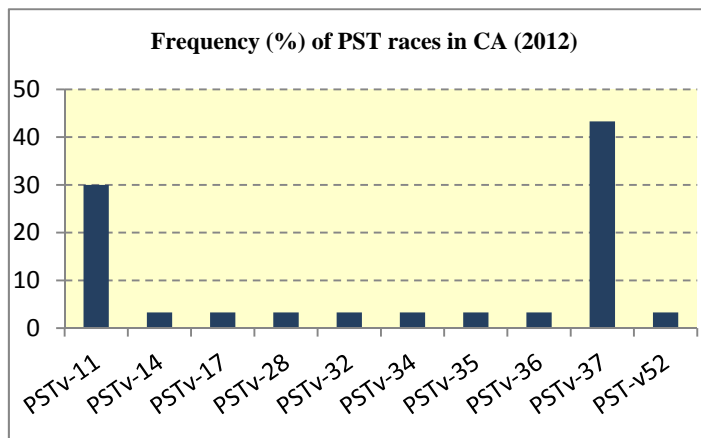
COMMON WHEAT: Red wheat estimated planted acreage was 519,000 acres and white wheats were planted in 100,000 (60,000 acres of hard white and 40,000 acres of soft whites).

Overall, Joaquin, PR 1404, and Patron topped the list of hard red varieties planted throughout the state. Blanca Grande 515, Perla and Patwin had the largest acreage of Hard White wheat. Yamhill and Alpowa were the most widely planted varieties among the Soft white wheat.

DESERT DURUM®: Desert Durum® wheat plantings were down significantly from the previous year at 71,300 acres (47,000 in Imperial Valley and 24,000 acres in the San Joaquin Valley region). Orita and Desert King were the predominant varieties planted in 2013.

http://smallgrains.ucdavis.edu/CWC_Wheat_Var_Survey_2013.pdf

In 2013, the rains came early in the growing season. Between November and December, rainfall was above average by nearly 90%. Through the growing season, between January and July, the average rainfall was down by around 60%, for an overall rainfall total about 10% below average. The lack of rain during the growing season had severe effects on the rainfed crops; in some cases fields produced little or no grain at all. Irrigated trials suffered less, and in fact, the dry weather helped protect against common diseases like septoria and stripe rust. Known susceptible lines still suffered from stripe rust, even with the low infection pressure, suggesting that in an average season, crops would likely see severe yield reduction. Disease susceptibility (especially stripe rust reaction) should be a primary trait taken into consideration when choosing varieties to be grown in California’s Central Valley regions.



The 2012 stripe rust race analysis was performed by Dr. X. Chen using 30 wheat and 20 barley stripe rust samples collected in California from infected wheat and barley varieties. Ten different wheat stripe rust races were identified and their frequencies are presented in Figure 1. The two more abundant races were PSTv-11 (30% of the samples) and PSTv-37 (43.3% of the samples), which were also the most abundant races in 2011. All other races were represented only once in this set of samples. Resistance genes *Yr5* and *Yr15* continued to be effective against all current wheat stripe rust races but *Yr17* was

susceptible to more than 93% of the samples collected in California. Virulence on *Yr10* was not detected in the 2012 California samples but is frequent in other regions of the USA.

Among the 20 samples of barley stripe rust collected in California, 20% were classified as PSH-33 and 80% as PSH-48.

COMMON WHEAT

Fall-sown spring wheat: The fall-sown spring wheat and triticale test contained 56 entries (28 wheat cultivars, 23 advanced wheat lines, and 5 triticale 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 3-15. This test was grown in 10 sites, 7 irrigated and 3 rainfed. Not all entries were grown in all locations. In Clarksburg, many wheat plots had poor stands, possibly due to wet conditions at planting. The trial was planted later than the surrounding field; therefore, irrigation schedules were off and the trial received one less irrigation than the surrounding field, which resulted in extreme drought stress and premature senescence. Yields were very low, and some plots did not produce seed at all. In Colusa, plots suffered from an application of 2,4 D that was applied to the surrounding field. The timing of the application was correct for the surrounding field, but too early for the trial plots, as the plots were planted later than the surrounding field. Due to the late planting, the plots received one less irrigation than the surrounding field and suffered drought stress late in the season. Yields were significantly reduced. In Fresno, plots were sprinkle irrigated

when a flood irrigation would have been preferable for the timing in the season. Overall water on the plants was fine, but the timing of the different types of irrigations reduced the overall yields. In Tulare (rainfed), low or no rainfall resulted in most plots not producing grain, and the trial was not harvested.

Yield potential: In 2013, average grain yields ranged from 3460 lb/acre at the Colusa trial to 7510 lb/acre at the Kern trial. In the Sacramento Valley, Blanca Grande 515, UC1745, and Ultra were the highest yielding common wheat lines; SY 115T and Trical 118 were the highest yielding triticale varieties. In the San Joaquin Valley, LG Atomo, Blanca Fuerte, and Redwing were the highest yielding common wheat lines; SY 115T, SY 158T, and Trical 118 were the highest yielding triticale lines. In Imperial Valley, WB DA907-047, Ultra, and WB-Cristallo were the highest yielding common wheat lines; SY 115T and Trical 105 were the highest yielding triticale entries.

When the three year period from 2011-2013 is considered, in the Sacramento Valley, LG 08SB0658-B, WB-Cristallo, and Patwin 515 were the highest yielding varieties. In the San Joaquin Valley (2011-13), Blanca Fuerte, Blanca Royale, and LG08SB0658-B were the highest yielding lines. In Imperial Valley (2011-13), Joaquin, Blanca Fuerte, and Blanca Grande 515 were the highest yielding entries (Table 15).

Disease resistance: In 2013, the growing season had little rain. This dry weather resulted in low pressure of stripe rust throughout California. Even with the low disease pressure, moderate to severe infection was still seen on known susceptible varieties such as Mika, Joaquin, Redwing, FV2808, and Triple IV (Table 11). It is important to minimize the planting of susceptible varieties to reduce the chances of new virulent races.

Quality: Grain protein content was measured from four sites in the Sacramento Valley, two sites in the San Joaquin Valley, and one site in Imperial Valley. Average grain protein content ranged from 10.6% to 13.4% for samples from the Sacramento Valley, from 10.3% to 13.9% in the San Joaquin Valley, and from 10.4% to 13.5% in Imperial Valley. Among released varieties, WB-Rockland had the highest overall grain protein content. Among experimental varieties, LG 08SB0738 and APB 770229 had the highest overall average grain protein content (Table 12). Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from Davis (Table 13) and Fresno (Table 14) 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). Nine additional lines were added to the test. The test contained 54 entries (24 cultivars and 30 advanced lines). This test was evaluated at two sites, Montague (Siskiyou County) (Table 21), and Tulelake (Modoc County) (Table 22). Entries in the test, type, and seed sources are shown in Table 20. In Montague, a shortage of water led to low irrigation of the surrounding field. Plots showed moisture stress and yields were reduced.

Yield potential: Average grain yields ranged from 4,270 lb/acre in Montague to 8,310 lb/acre in Tulelake. The highest yielding variety in Montague was OR2071071 and the highest yielding variety in Tulelake was YS 221. Overall, YS 221 was the highest yielding line among the two sites (Table 23).

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). One additional line was added to the test. The test contained 41 entries (Table 16), and was evaluated at two sites, Susanville (Lassen County) and Tulelake (Modoc County) (Tables 17-18). Average grain yields ranged from 3,260 lb/acre in Lassen to 7,230 lb/acre in Tulelake. WB 6341 was the highest yield line in Lassen, and DAYN was the highest yielding line at Tulelake. Overall, IDO 852 was the highest yielding variety among the three sites (Table 19).

DURUM WHEAT

The durum wheat test contained 41 entries (18 cultivars and 23 advanced lines). The test was grown in four locations. Entries in the test, their backgrounds, and seed sources are shown in Table 24. Yield, agronomic performance, and quality data are given in Tables 25-32. In Fresno, plots were sprinkle irrigated when a flood irrigation would have been preferable for the timing in the season. Overall water on the plants was fine, but the timing of the different types of irrigations reduced overall yields.

Yield potential: Average grain yields ranged from 5,710 lb/acre at the Fresno site to 7,940 lb/acre at the Kern site. Topper and UC 1690 (UC-Miwok) were the two highest yielding varieties in the San Joaquin Valley, in the Imperial Valley, WWW D2517 and Kronos were the two highest yielding varieties. Of the varieties that have been tested over the last three years (2011-2013), UC 1690 (UC-Miwok) and Topper are the highest yielding varieties in the San Joaquin Valley, in the Imperial Valley, LG Kiko Nick and UC-Tipai are the two highest yielding varieties (Table 32).

Quality: Grain protein content of samples from three locations in the Central Valley and one location in Imperial Valley was measured and reported in Table 29. Average grain protein content ranged from 8.7% to 15.5% for samples from the Central Valley, and from 12.4% to 16.6% for samples from Imperial Valley. Among released varieties, UC-Desert King-HP had the highest average grain protein content in both the Central and Imperial Valleys. Among experimental varieties, UC 12213/43 had the highest average grain protein content in both the Central Valleys (Table 29). Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from Fresno and Imperial (Tables 30-31) showed that among released varieties, Kronos and Crown had the highest overall color scores.

BARLEY

Fall-sown spring barley: The fall-sown spring barley test contained 42 entries (6 cultivars and 36 advanced lines). This test was planted in 6 locations (2 irrigated, 4 rainfed). Entries in the test, type of barley, their backgrounds, and seed sources are shown in Table 33. Yield and agronomic performance data are given in Tables 34-38. In Tehama, rain runoff from a nearby hill resulted in a washout of many plots in the third rep. Wild boars in the area also preferred several lines to the surrounding fields, and their grazing did significant damage to about 12 plots in the trial. In SLO and Tulare (both rainfed), low or no rainfall resulted in most plots not producing grain, and the trials were deemed not worth harvesting.

Yield potential: Average yields ranged from 2,280 lb/acre at the Tehama site to 6,040 at the Fresno site. In 2013, UCD B398 and UCD 08YP 111 were the two highest yielding barley lines in the irrigated sites, UCD 08YP 111 and UCD B372 were the two highest yielding barley varieties among the rainfed trials (Table 38).

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 44 entries (13 cultivars and 31 advanced lines). This test was planted in 2 locations. 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 40-42. 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 31 entries. Entries in the test, type, backgrounds, and seed sources are shown in Table 43. Yield and agronomic performance data are given in Table 44. In Tulelake, the spring barley test and the WRSBN both had damage from birds, the WRSBN seeing a much more severe seed per spikelet reduction.

Yield potential: Average yields ranged from 3,080 lb/acre in Lassen to 6,090 lb/acre in Tulelake. Over all locations in 2013, entries UCD 1365 and UCD 1341 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, X06G07-T43 and X06G07-T43 were the highest yielding varieties.

Table 1. SITE CHARACTERISTICS FOR UC REGIONAL CEREAL EVALUATION TESTS, 2013

LOCATION	TESTS	SOWING DATE	SOIL TYPE	2012 CROP	FERTILIZATION	IRRIGATION	RAIN year (in)
REGIONAL:							
Colusa Co., Erdman Farm, Grimes	Wheat	12/15/12	Scribner silt loam	Vineseeds	Preplant: 125# N (NH3)	1X Flood (6" total)	10.5
Fresno Co., UC Westside REC, Five Points	Wheat Durum Barley	12/11/12	Panoche Clay loam	Cotton	120# N (Urea) preplant Topdress: 50# N (urea) at tillering (wheat and barley); 50# N (urea) at boot stage (wheat only)	Barley: Sprinkler 3X; Flood 2X (13" total) Wheat: Sprinkler 3X; Flood 3X (18" total)	3.3
Imperial Co., UC Desert REC, El Centro	Wheat Durum	12/11/12	Imperial-Glenbar silty clay loam	Alfalfa	Preplant: 100# P2O5; 80#N UREA (173#/acre) 361# N (anhydrous ammonia in 3 irrigations)	Flood 5X (40" total)	0.5
Kern Co., J.G. Boswell Co. Buena Vista Ranch Old River	Wheat Durum	12/5/12	Millox Clay and Zalvidea Sandy loam	Cotton	Preplant: 400 lb/acre 5.5-26-31, 180# N (NH3); 177# N (NH3) between 4 irrigations	Flood: 4X (32" total)	2.9
San Joaquin Co, Victoria Island Farms Sac-San Joaquin Delta (Stockton)	Wheat	1/15/13	Egbert muck	Tomatoes	200# 11-52-0 Preplant ; 125# Urea topdress	Sprinkler 1X; Drip (22" total)	2.1
Tehama Co., Endres Ranch Corning	Barley	12/14/12	Maywood loam	Fallow	Preplant: 70# N (Urea); 70# N 16-20-00 at planting	None	5.4
Yolo Co., UC Davis Agr. Farm Davis	Wheat Durum Barley RF Wheat	11/27/12	Yolo loam	Corn	92#N (urea) with 1% sulfur preplant Topdress (at tillering): 60#N (wheat), 50# N (barley) Topdress (at jointing): 50#N (wheat)	Wheat: Flood 3X (15" total) Barley: None	9.8
Yolo Co., Joe Perry Farm Clarksburg	Wheat Barley	12/20/12	Clay loam class 3	Safflower	120# (aqua) Preplant; 46# N (urea) topdress	Sprinkler 8 hours (2" total)	7.8
INTERMOUNTAIN:							
Siskiyou Co., Peters Ranch Montague	Winter Wheat	11/15/12	Clay loam	Fallow	150 lbs of N (anhydrous ammonia)	Flood 2X (18" total)	4.0
Lassen Co., Sierra-Cascade Nursery Susanville	Wheat Barley	4/9/13	Sandy loam	Strawberries	400# ammonium sulfate after germination	Sprinkler 7X (16" total)	0.9
Siskiyou Co., UC Intermountain REC, Tulelake	Winter Wheat	11/15/12	Tule basin mucky silty clay loam	Sudan Grass	500 #/a 16-20-0 39#/a UN32	Sprinkler (9.87" total)	8.1
Siskiyou Co., UC Intermountain REC, Tulelake	Spring Barley Spring Wheat	4/10/13 4/10/13	Tule basin mucky silty clay loam	Sudan Grass Fallow	139#/A Urea, 101#/A 11-52-0 270#/A Urea, 80#/A 11-52-0	Sprinkler: Barley 10.8" total Sprinkler: Wheat 10.5" total	3.6

2013 UC Regional Common Wheat Entry List

Entry Name	Type	Parentage	Source	Grown At
CULTIVARS				
20 ANZA	HRS	LR/N10B/3*ANE	UC	ALL
112 YECORA ROJO	HRS	Ciano 67 // Sonora 64 / Klein Rendidor /3/ II-8156	UC	ALL
788 EXPRESS	HRS		WESTBRED	ALL
1340 MIKA	HRS	MSFRS SELECTION	WWW	ALL
1419 PATWIN	HWS	MADSEN/2*EXPRESS	UC	ALL
1424 JOAQUIN	HRS		WESTBRED	ALL
1478 CAL ROJO	HRS	CMT1171-4//PFAU'S/VEE#5/3/BONUS	SYNGENTA	ALL
1495 LASSIK	HRS	Anza short (Gpc: 2NS; 1, 5+10)	UC	ALL
1521 REDWING	HRS	CMT Synthetic/1065-3/3/UCSR/PB775// Express	SYNGENTA	ALL
1522 BLANCA ROYALE	HWS	CLEO/2INIA//W444/3/DWL5046/2*CELAYA/4/UCSR/PB775/5/STANDER	SYNGENTA	ALL
1523 BLANCA FUERTE	HWS	SERRA/4/VS73.600/MRL/3/BOW//YR/TRF/5/RSI5/6/PH989-188/1065-3	SYNGENTA	ALL
1526 PR 1404	HRS		WESTBRED	ALL
1548 WB-CRISTALLO	HW		WESTBRED	ALL
1550 TRIPLE IV	HRS		WESTBRED	ALL
1555 LARIAT	HRS	Cleo/2Inia//W444/3/DWL5046/2*Celaya/4/UCSR/PB775/5/Standar	SYNGENTA	ALL
1590 ULTRA	HRS		SYNGENTA	ALL
1608 FV 2808	HRS	HRS MSFRS QUALITY POP	STANISLAUS FARM SUPPLY	ALL
1650 WB-ROCKLAND	HRS		WESTBRED	ALL
1657 BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	SYNGENTA	ALL
1658 SUMMIT 515	HRS	Summit Yr5,Yr15	SYNGENTA	ALL
1660 SY 314	HRS		SYNGENTA	ALL
1667 NEW DIRKWIN	SWS		BAGLIETTO SEEDS	ALL
1680 PATWIN 515	HWS	PATWIN Yr5, Yr15	UC	ALL
1728 WB-JOAQUIN ORO	HRS		WESTBRED	ALL
1729 WB-PERLA	HW		WESTBRED	ALL
1730 WB-9229	HRS		WESTBRED	ALL
1731 WB-PATRON	HRS		WESTBRED	ALL
1760 EXCEDE	HRS		AG SERVICE SEEDS	ALL
ADVANCED LINES				
1684 WWW CABR3509W	HWS	MSFRS SELECTION	WWW	ALL
1686 LG 08SB100	HRS		LIMAGRAIN	Davis, Fresno
1688 LG 08SB0658-B	HWS		LIMAGRAIN	ALL
1716 WINCAL 09196	HRW	PERILA 'S' / TADINIA // PORTOLA 87W /// KERN	UC	ALL
1723 LG ATOMO	HWS		LIMAGRAIN	ALL
1726 LG 08SB0738	HWS		LIMAGRAIN	Davis, Fresno
1727 LG 08SB0008-B	HRS		LIMAGRAIN	Davis, Fresno
1732 WWW BR2308W	HWS	MSFRS SELECTION	WWW	ALL
1740 UC 12210/10	HWS	INIAP-ALTAR 82/UC1107	UC	ALL
1741 UC 12010/20	HWS	CLEAR WHITE//MADSEN/2*EXPRESS	UC	ALL
1742 UC 12010/25	HRS	EXPRESS Yr15-Lr37/UC1419	UC	ALL
1743 UC 12013/33	HWS	UC1419 Yr5 Yr15 Gpc	UC	ALL
1744 UC 12013/34	HWS	UC1128 Yr5 Yr15 Gpc	UC	ALL
1745 UC 12014/35	HRS	UC1110/UC1037 Gpc-GLU-2NS	UC	ALL
1746 APB 770229	HWS		APB	Davis, Fresno, Imperial
1747 APB 430701	HRS		APB	Davis, Fresno, Imperial
1748 WB SJ909-368	HRS		WESTBRED	ALL
1749 WB DA907-047	HW		WESTBRED	ALL
1750 WB DA908-306	HW		WESTBRED	ALL
1751 WB YU909-005	HRS		WESTBRED	ALL
1762 WWW CABR3477W	HWS		WWW	ALL
1763 WWW CABR3439	HRS		WWW	ALL
1764 WWW IDCHBR1971B	HRS		WWW	ALL
TRITICALE				
3097 TRICAL 105	TRIT	FARAS/BUL	SYNGENTA	ALL
3156 TRICAL 118	TRIT	AR/SPY6/11ITSN 79-3/C2/3/TCL7/TCL50-1	SYNGENTA	ALL
3168 CAMELOT	TRIT		SYNGENTA	ALL
3169 SY 158T	TRIT		SYNGENTA	ALL
3170 SY 115T	TRIT		SYNGENTA	ALL

56 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

2013 Clarksburg Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Stripe	BYDV
					Rust 5/11	5/11
CULTIVARS						
20	ANZA	1110 (43)	52.0	28	1.0	1.0
112	YECORA ROJO	1140 (42)	52.6	24	1.0	1.8
788	EXPRESS	1700 (18)	53.1	33	1.0	3.0
1340	MIKA	1010 (44)	57.1	31	1.3	1.0
1419	PATWIN	1510 (22)	52.5	27	1.0	2.0
1424	JOAQUIN	1940 (8)	56.7	32	1.3	3.0
1478	CAL ROJO	1500 (23)	50.5	28	1.0	1.5
1495	LASSIK	1400 (32)	50.6	30	1.0	1.0
1521	REDWING	2010 (6)	48.9	28	1.0	1.3
1522	BLANCA ROYALE	1810 (12)	53.3	28	1.0	1.8
1523	BLANCA FUERTE	3210 (1)	60.5	25	1.0	1.0
1526	PR 1404	1210 (41)	52.4	31	1.0	1.0
1548	WB-CRISTALLO	1450 (27)	52.2	28	1.0	2.0
1550	TRIPLE IV	1410 (31)	51.4	35	1.0	2.8
1555	LARIAT	1370 (33)	53.4	29	1.0	2.3
1590	ULTRA	1880 (9)	54.3	29	1.0	1.0
1608	FV 2808	1300 (36)	53.8	31	1.0	1.3
1650	WB-ROCKLAND	1720 (17)	53.8	29	1.0	2.3
1657	BLANCA GRANDE-515	1950 (7)	57.4	32	1.0	2.3
1658	SUMMIT 515	1780 (14)	53.8	26	1.0	1.8
1660	SY 314	1740 (15)	51.6	29	1.0	1.8
1667	NEW DIRKWIN	590 (45)	52.4	28	1.0	1.5
1680	PATWIN 515	1300 (36)	51.5	25	1.0	1.8
1728	WB-JOAQUIN ORO	1850 (11)	56.7	30	1.0	4.0
1729	WB-PERLA	1870 (10)	54.1	30	1.0	3.8
1730	WB-9229	1440 (28)	53.3	29	1.0	3.3
1731	WB-PATRON	1360 (34)	52.1	33	1.0	2.0
1760	EXCEDE	520 (46)	51.7	20	1.0	1.0
ADVANCED LINES						
1684	WWW CABR3509W	1270 (40)	53.6	30	1.0	2.0
1688	08SB0658-B	1660 (19)	50.4	33	1.0	1.3
1716	WINCAL 09196	1300 (36)	52.3	25	1.0	1.0
1723	ATOMO	2260 (2)	54.0	29	1.0	1.0
1732	WWW BR2308W	1430 (30)	52.9	30	1.0	1.8
1740	UC 12210/10	2170 (4)	53.1	28	1.0	1.8
1741	UC 12010/20	2180 (3)	52.6	32	1.0	2.0
1742	UC 12010/25	1440 (28)	50.1	36	1.0	2.3
1743	UC 12013/33	1790 (13)	51.5	31	1.0	2.0
1744	UC 12013/34	1730 (16)	53.2	33	1.0	3.3
1745	UC 12014/35	1490 (24)	54.3	30	1.0	1.3
1748	WB SJ909-368	1640 (20)	53.4	32	1.0	3.5
1749	WB DA907-047	2060 (5)	54.1	29	1.0	3.3
1750	WB DA908-306	1470 (25)	54.7	29	1.0	3.0
1751	WB YU909-005	1580 (21)	54.4	31	1.0	1.0
1762	WWW CABR3477W	1280 (39)	53.1	32	1.0	1.5
1763	WWW CABR3439	1470 (25)	53.3	28	2.3	1.0
1764	WWW IDCHBR1971B	1340 (35)	51.9	29	1.0	1.3
TRITICALE						
3097	TRICAL 105	1700 (3)	53.4	39	1.0	1.5
3156	TRICAL 118	2540 (1)	54.1	34	1.0	1.0
3168	CAMELOT	2200 (2)	52.4	36	1.0	1.0
3169	SY 158T	1370 (4)	53.4	31	1.0	1.0
3170	SY 115T	1260 (5)	55.1	32	1.0	1.3
MEAN		1670	53.2	29	1.0	1.8
CV		24.5	3.9	6.3	22.5	36.2
LSD (.05)		580	4.1	3	0.3	0.9

Rating scale for 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%.

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

Numbers in parentheses indicate relative rank in column.

2013 Colusa Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Shatter	Stripe Rust 5/1	BYDV 5/1	Herbicide Injury 5/1	Protein %
				Kernel Wt (g)	Plant Ht (in)					
CULTIVARS										
20	ANZA	2300 (41)	55.8	23.5	28	1.0	2.8	2.5	3.3	11.24
112	YECORA ROJO	3930 (8)	56.1	28.9	31	1.0	1.0	1.0	2.5	12.63
788	EXPRESS	3630 (19)	56.9	28.7	34	1.5	1.0	2.8	3.5	11.46
1340	MIKA	1730 (44)	51.4	22.2	34	1.0	2.8	4.8	2.0	13.63
1419	PATWIN	3010 (34)	53.8	24.7	30	1.0	1.0	2.0	4.3	13.02
1424	JOAQUIN	4340 (2)	58.5	33.7	38	1.0	4.8	2.0	2.0	11.57
1478	CAL ROJO	3290 (31)	53.0	27.4	28	1.0	1.0	2.0	4.3	12.43
1495	LASSIK	2010 (43)	53.7	21.1	26	1.0	1.0	1.8	2.8	12.04
1521	REDWING	3750 (15)	54.8	30.4	29	1.0	1.5	2.0	3.3	12.78
1522	BLANCA ROYALE	3760 (13)	57.3	27.1	29	1.0	1.0	2.3	2.8	12.21
1523	BLANCA FUERTE	3500 (22)	56.0	23.3	29	1.0	1.0	2.3	1.8	12.48
1526	PR 1404	2960 (35)	54.6	29.9	33	1.3	1.0	3.5	2.5	11.52
1548	WB-CRISTALLO	3870 (10)	58.9	31.5	32	1.0	1.5	2.5	4.0	12.03
1550	TRIPLE IV	3210 (32)	55.3	32.4	37	2.3	1.3	2.5	1.5	11.65
1555	LARIAT	2800 (37)	55.3	24.4	29	1.0	1.0	2.5	3.5	12.16
1590	ULTRA	3940 (7)	59.1	29.7	28	1.0	1.0	1.8	3.8	11.87
1608	FV 2808	2600 (39)	54.9	24.8	31	1.0	3.5	3.3	1.3	11.06
1650	WB-ROCKLAND	3420 (24)	58.9	30.6	26	1.0	1.0	2.5	3.8	13.03
1657	BLANCA GRANDE-515	3920 (9)	59.7	34.0	32	1.3	1.0	1.0	3.0	11.04
1658	SUMMIT 515	3860 (11)	59.8	35.7	29	1.0	1.0	2.3	4.0	11.86
1660	SY 314	3410 (25)	54.6	29.0	28	1.0	1.0	1.8	4.8	12.19
1667	NEW DIRKWIN	1520 (45)	48.9	23.9	28	1.0	1.0	1.5	1.8	12.50
1680	PATWIN 515	3530 (21)	55.6	24.7	27	1.0	1.0	1.3	4.3	12.89
1728	WB-JOAQUIN ORO	4260 (3)	59.8	33.1	33	1.3	1.0	1.5	1.8	12.63
1729	WB-PERLA	4040 (5)	60.2	36.6	33	1.5	1.0	1.3	2.5	11.72
1730	WB-9229	3400 (26)	58.6	28.4	32	1.0	1.0	2.8	3.5	11.86
1731	WB-PATRON	3050 (33)	55.1	28.0	33	1.0	1.0	3.0	2.8	12.77
1760	EXCEDE	1330 (46)	42.6	19.2	23	1.0	1.0	2.3	1.0	14.25
ADVANCED LINES										
1684	WWW CABR3509W	3300 (30)	56.8	32.3	31	1.0	2.0	2.5	4.0	11.45
1688	08SB0658-B	3550 (20)	55.8	22.6	32	1.0	1.0	1.5	2.5	13.09
1716	WINCAL 09196	2660 (38)	52.2	24.0	25	1.0	1.0	1.0	3.5	11.97
1723	ATOMO	3790 (12)	57.6	26.1	29	1.0	1.0	1.5	1.0	12.14
1732	WWW BR2308W	3760 (13)	57.4	29.1	32	1.0	1.5	2.0	4.0	10.84
1740	UC 12210/10	2870 (36)	53.4	23.6	30	1.0	1.0	1.8	4.3	13.43
1741	UC 12010/20	3490 (23)	54.3	28.7	33	1.0	1.0	3.0	4.3	12.19
1742	UC 12010/25	3310 (29)	55.7	27.8	31	1.0	1.0	2.0	4.3	12.04
1743	UC 12013/33	3390 (27)	55.3	26.3	30	1.0	1.0	1.3	4.0	13.45
1744	UC 12013/34	3950 (6)	59.1	31.2	34	1.5	1.0	2.0	2.5	12.20
1745	UC 12014/35	3720 (18)	60.0	29.8	32	1.0	1.0	1.3	3.8	10.93
1748	WB SJ909-368	4070 (4)	56.8	24.5	31	1.0	1.0	1.0	2.0	12.35
1749	WB DA907-047	3740 (16)	58.2	28.9	31	1.0	1.0	1.8	3.8	12.39
1750	WB DA908-306	4420 (1)	60.0	34.1	33	1.0	1.0	2.0	3.3	10.74
1751	WB YU909-005	3360 (28)	55.8	33.1	33	1.0	1.0	2.8	2.0	11.62
1762	WWW CABR3477W	3740 (16)	57.8	27.8	32	1.0	1.0	1.5	3.8	11.42
1763	WWW CABR3439	2550 (40)	53.8	29.1	31	2.0	6.5	1.5	4.3	12.51
1764	WWW IDCHBR1971B	2060 (42)	52.8	24.1	29	1.0	4.8	2.0	4.5	13.78
TRITICALE										
3097	TRICAL 105	4430 (5)	55.2	35.9	36	1.3	1.0	1.0	1.0	-
3156	TRICAL 118	4860 (3)	55.7	32.5	36	1.0	1.0	1.0	1.0	-
3168	CAMELOT	5020 (2)	53.7	37.4	39	1.0	1.0	1.0	1.0	-
3169	SY 158T	4570 (4)	55.6	33.9	35	1.3	1.0	1.5	1.0	-
3170	SY 115T	5400 (1)	57.3	36.7	37	1.0	1.0	1.5	1.0	-
MEAN		3460	55.9	28.8	31	1.1	1.4	2.0	2.9	12.20
CV		14.3	2.6	6.9	6.2	22.8	29.5	34.3	21.4	
LSD (.05)		690	2.9	4.1	4.0	0.3	0.6	0.9	0.9	

Rating scale for 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%.

BYDV, herbicide injury, and shatter ratings (see scale above) were based on percentage of plants showing symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture

2013 Davis Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Lodging Harvest	Stripe Rust 5/1	BYDV 5/1	Protein %
				Kernel Wt (g)	Plant Ht (in)	Heading From (3/1)	Maturity				
CULTIVARS											
20	ANZA	6530 (8)	60.7	35.1	36	42	80	1.0	4.3	1.0	10.99
112	YECORA ROJO	5560 (42)	61.4	47.5	32	36	74	1.3	3.5	1.3	11.16
788	EXPRESS	6220 (20)	61.2	38.2	38	41	78	1.0	1.3	1.0	12.85
1340	MIKA	4510 (50)	58.1	33.3	38	43	78	1.0	3.5	1.3	13.82
1419	PATWIN	5710 (39)	59.9	33.5	35	45	79	1.0	1.0	1.5	12.28
1424	JOAQUIN	6220 (20)	59.3	38.5	37	37	77	1.0	5.3	1.0	12.49
1478	CAL ROJO	6220 (20)	59.3	40.4	34	42	78	1.0	1.0	1.0	11.17
1495	LASSIK	6330 (14)	61.6	36.0	35	44	80	1.0	1.0	1.0	11.78
1521	REDWING	6630 (6)	59.9	41.2	33	42	78	1.0	3.3	1.0	11.82
1522	BLANCA ROYALE	6490 (10)	61.2	37.9	33	39	76	1.0	1.0	1.0	12.09
1523	BLANCA FUERTE	6690 (3)	62.8	44.0	33	42	78	1.0	1.0	1.0	9.38
1526	PR 1404	5740 (38)	60.0	41.8	40	44	81	1.0	1.0	1.5	9.49
1548	WB-CRISTALLO	6490 (10)	62.2	41.3	36	43	78	1.0	1.0	1.0	11.55
1550	TRIPLE IV	4660 (49)	60.8	41.3	41	34	73	5.5	2.8	1.8	12.85
1555	LARIAT	5480 (45)	60.9	37.1	34	41	78	1.0	1.0	1.3	10.70
1590	ULTRA	7050 (1)	61.2	42.1	33	43	79	1.0	1.0	1.0	11.74
1608	FV 2808	5320 (46)	60.6	36.6	42	44	78	1.3	2.3	2.5	9.18
1650	WB-ROCKLAND	5800 (37)	61.0	38.4	34	41	78	1.0	1.0	1.3	13.86
1657	BLANCA GRANDE-515	6650 (5)	63.6	43.5	37	38	76	1.0	1.0	1.0	11.84
1658	SUMMIT 515	6270 (18)	61.6	34.4	34	42	77	1.0	1.0	1.0	11.86
1660	SY 314	5830 (36)	58.6	39.0	35	43	78	1.0	1.0	1.0	11.53
1667	NEW DIRKWIN	5130 (48)	57.4	36.9	40	48	82	1.3	1.0	1.0	11.48
1680	PATWIN 515	6250 (19)	60.4	34.6	31	43	78	1.0	1.0	1.5	11.94
1728	WB-JOAQUIN ORO	5900 (32)	61.1	41.6	37	34	74	1.0	1.0	1.8	12.51
1729	WB-PERLA	5710 (39)	61.2	40.2	36	37	75	1.3	1.0	1.8	11.09
1730	WB-9229	6350 (13)	62.3	37.8	36	42	78	1.0	1.3	1.5	12.11
1731	WB-PATRON	6130 (25)	61.1	42.0	37	41	78	1.3	1.0	1.5	11.62
1760	EXCEDE	5860 (35)	54.6	37.5	31	60	96	1.0	1.0	1.0	12.71
ADVANCED LINES											
1684	WWW CABR3509W	6560 (7)	61.0	39.4	36	41	78	1.0	3.5	1.0	10.66
1686	08SB100	5290 (47)	61.2	37.0	36	42	79	1.0	1.0	1.0	12.86
1688	08SB0658-B	5580 (41)	61.5	39.9	36	41	76	1.3	1.0	1.3	9.36
1716	WINCAL 09196	5870 (34)	61.9	35.3	32	45	80	1.0	1.0	1.0	11.58
1723	ATOMO	6300 (16)	62.3	41.6	35	38	76	1.0	1.0	1.3	9.68
1726	LG 08SB0738	6280 (17)	61.7	37.7	35	43	78	1.0	1.0	1.0	12.39
1727	LG 08SB0008-B	6320 (15)	59.6	42.9	33	41	79	1.0	1.0	1.0	12.18
1732	WWW BR2308W	6690 (3)	61.1	43.9	37	41	79	1.0	2.5	1.3	9.52
1740	UC 12210/10	5530 (43)	59.9	36.8	34	43	77	1.0	1.0	1.0	10.77
1741	UC 12010/20	6490 (10)	59.4	37.3	37	42	78	1.0	1.0	1.0	12.53
1742	UC 12010/25	6210 (23)	61.8	37.8	39	41	77	1.0	1.0	1.3	11.05
1743	UC 12013/33	6080 (26)	60.5	36.2	33	41	76	1.0	1.0	1.3	12.64
1744	UC 12013/34	6150 (24)	61.0	38.8	38	42	75	2.5	1.0	1.0	12.81
1745	UC 12014/35	6970 (2)	62.5	41.1	36	44	78	1.0	1.0	1.0	12.96
1746	APB 770229	6070 (28)	62.9	38.6	39	41	77	1.0	1.0	1.0	13.02
1747	APB 430701	5490 (44)	60.2	35.3	41	44	79	2.0	1.0	1.3	12.33
1748	WB SJ909-368	6080 (26)	62.3	36.6	38	38	76	1.0	1.0	1.3	11.05
1749	WB DA907-047	6040 (29)	61.5	37.9	33	42	79	1.0	1.0	1.0	12.98
1750	WB DA908-306	6500 (9)	63.2	43.1	37	41	77	1.0	1.0	1.0	11.82
1751	WB YU909-005	5900 (32)	60.4	42.3	39	42	79	1.5	1.0	1.5	10.24
1762	WWW CABR3477W	5990 (30)	61.6	39.6	38	40	75	1.0	1.3	1.0	10.86
1763	WWW CABR3439	4370 (51)	55.4	35.0	36	40	76	1.0	7.5	1.0	10.99
1764	WWW IDCHBR1971B	5920 (31)	60.5	38.0	40	46	81	1.0	5.3	1.0	12.72
TRITICALE											
3097	TRICAL 105	6100 (5)	59.3	52.4	42	38	79	1.5	1.0	1.0	-
3156	TRICAL 118	7280 (1)	59.0	41.4	38	38	79	1.0	1.0	1.0	-
3168	CAMELOT	6170 (4)	57.3	44.7	40	41	80	1.0	1.0	1.0	-
3169	SY 158T	6990 (3)	58.8	39.9	36	42	81	1.0	1.0	1.0	-
3170	SY 115T	7020 (2)	58.7	42.5	37	42	81	1.0	1.0	1.3	-
MEAN		6070	60.5	39.4	36	41	78	1.2	1.6	1.2	11.67
CV		7.3	1.1	6.0	5.2	4.0	1.9	28.3	38.4	34.5	
LSD (.05)		620	1.3	4.7	3.0	2.0	2.0	0.5	0.9	0.6	

Rating scale for 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%.

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

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture

2013 San Joaquin/Sacramento Delta Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Lodging Harvest	Shatter	Stripe Rust 5/11	BYDV 5/11	Protein %
				Kernel Wt (g)	Plant Ht (in)					
CULTIVARS										
20	ANZA	3820 (30)	59.2	31.8	34	1.0	1.0	4.5	2.8	11.01
112	YECORA ROJO	4300 (20)	60.6	37.0	29	1.0	1.0	3.3	3.8	12.37
788	EXPRESS	4140 (23)	60.8	33.7	33	1.0	1.0	1.5	4.3	12.21
1340	MIKA	2570 (44)	58.6	30.2	36	1.8	1.0	5.0	4.3	12.80
1419	PATWIN	4030 (25)	58.0	31.0	32	1.0	1.0	1.0	2.8	12.60
1424	JOAQUIN	3090 (41)	55.8	27.9	36	1.0	1.0	7.8	2.3	12.12
1478	CAL ROJO	3490 (37)	59.0	36.2	27	1.0	1.0	1.0	5.0	12.44
1495	LASSIK	4820 (3)	59.7	32.7	34	1.0	1.0	1.0	3.8	11.50
1521	REDWING	4340 (18)	58.6	33.8	31	1.0	1.0	4.0	2.8	11.97
1522	BLANCA ROYALE	4550 (7)	60.1	31.8	31	1.0	1.0	1.0	4.5	12.87
1523	BLANCA FUERTE	4450 (13)	63.0	39.9	31	1.0	1.0	1.0	3.8	11.38
1526	PR 1404	3760 (33)	58.9	38.1	34	1.8	1.0	2.0	4.8	11.31
1548	WB-CRISTALLO	4580 (5)	60.8	35.0	32	1.0	1.0	4.8	2.5	11.58
1550	TRIPLE IV	1930 (45)	57.4	30.5	35	1.0	1.0	5.0	6.0	13.12
1555	LARIAT	3940 (28)	59.2	29.5	33	1.0	1.0	1.0	4.3	12.23
1590	ULTRA	4650 (4)	61.8	36.0	30	1.0	1.0	1.8	4.3	12.06
1608	FV 2808	3740 (34)	59.4	29.9	37	2.0	1.3	4.8	4.5	10.38
1650	WB-ROCKLAND	4280 (21)	61.4	36.6	32	1.0	1.0	1.0	5.0	12.78
1657	BLANCA GRANDE-515	5230 (1)	63.9	38.9	33	1.3	1.0	1.0	2.5	12.21
1658	SUMMIT 515	4490 (10)	61.6	37.0	30	1.0	1.0	1.0	4.8	11.69
1660	SY 314	3650 (35)	58.9	35.9	27	1.0	1.0	1.0	3.5	12.56
1667	NEW DIRKWIN	3110 (40)	55.6	34.6	34	1.0	1.0	1.0	4.3	11.87
1680	PATWIN 515	4580 (5)	59.2	29.8	29	1.0	1.0	1.0	2.8	12.39
1728	WB-JOAQUIN ORO	3860 (29)	59.8	33.8	33	1.0	1.0	1.0	3.8	12.28
1729	WB-PERLA	3540 (36)	60.0	34.1	33	1.0	1.0	1.0	4.3	12.71
1730	WB-9229	4430 (14)	61.9	34.2	34	1.0	1.0	1.0	5.0	12.36
1731	WB-PATRON	3360 (39)	59.2	36.6	38	1.3	1.0	1.0	4.8	12.52
1760	EXCEDE	1430 (46)		27.2	25	1.0	1.0	1.0	3.3	-
ADVANCED LINES										
1684	WWW CABR3509W	4400 (16)	59.5	32.6	34	1.0	1.0	3.8	4.0	10.78
1688	08SB0658-B	4510 (9)	61.3	33.4	37	1.0	1.0	1.0	4.3	11.98
1716	WINCAL 09196	4550 (7)	60.7	31.4	29	1.0	1.0	1.8	2.8	11.18
1723	ATOMO	4470 (11)	61.7	35.4	30	1.5	1.0	1.3	3.5	12.66
1732	WWW BR2308W	4050 (24)	57.6	33.1	35	1.8	1.0	3.8	3.5	10.97
1740	UC 12210/10	3800 (31)	59.0	31.2	34	1.0	1.0	1.0	3.5	12.26
1741	UC 12010/20	4240 (22)	58.3	34.0	37	1.0	1.0	1.0	4.0	12.28
1742	UC 12010/25	3980 (26)	60.7	33.0	36	1.0	1.0	1.0	4.3	12.16
1743	UC 12013/33	4310 (19)	58.6	30.3	29	1.0	1.0	1.0	2.3	13.12
1744	UC 12013/34	4460 (12)	61.8	37.5	36	2.5	1.0	1.0	4.3	12.44
1745	UC 12014/35	5030 (2)	62.5	38.5	35	1.0	1.0	1.0	3.8	11.29
1748	WB SJ909-368	3780 (32)	60.7	31.9	34	1.0	1.0	1.0	4.5	12.36
1749	WB DA907-047	4380 (17)	61.4	34.6	30	1.0	1.0	1.0	5.0	12.47
1750	WB DA908-306	4410 (15)	62.4	38.3	34	1.0	1.0	1.0	4.3	11.62
1751	WB YU909-005	3490 (37)	59.0	40.7	34	1.0	1.0	1.0	4.8	11.79
1762	WWW CABR3477W	3970 (27)	61.0	33.9	36	1.0	1.0	2.3	3.8	11.69
1763	WWW CABR3439	2910 (42)	53.6	28.7	33	1.3	1.0	8.0	2.0	11.71
1764	WWW IDCHBR1971B	2810 (43)	58.5	31.4	31	1.3	1.0	5.8	2.0	12.40
TRITICALE										
3097	TRICAL 105	4510 (5)	57.4	46.2	40	1.0	1.0	1.0	3.8	-
3156	TRICAL 118	5610 (1)	58.2	41.0	35	1.0	1.0	1.0	1.0	-
3168	CAMELOT	5080 (3)	56.0	40.9	37	1.0	1.0	1.0	1.5	-
3169	SY 158T	4960 (4)	55.5	34.8	35	1.0	1.0	1.0	2.5	-
3170	SY 115T	5450 (2)	58.0	39.5	35	1.0	1.0	1.0	3.5	-
MEAN		4060	59.5	34.4	33	1.1	1.0	2.0	3.7	12.06
CV		9.5	0.8	4.0	5.1	32.4	7	21.2	18	
LSD (.05)		540	1	2.8	3	0.5	ns	0.6	0.9	

Rating scale for 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%.

BYDV, lodging, and shatter 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.

2013 Fresno Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000 Kernel Wt (g)	Plant Ht (in)	Lodging Harvest	Shatter	Stripe Rust 4/29	BYDV 4/29	Protein %
CULTIVARS										
20	ANZA	6330 (3)	63.0	35.0	36	1.0	1.0	3.3	1.8	12.06
112	YECORA ROJO	5100 (44)	64.5	50.7	29	1.0	1.0	2.5	1.3	12.69
788	EXPRESS	5300 (41)	63.7	38.7	35	1.0	1.0	1.3	1.8	11.21
1340	MIKA	4830 (47)	61.7	39.4	40	1.0	1.0	3.0	2.0	12.94
1419	PATWIN	5870 (14)	61.4	35.2	32	1.0	1.0	1.0	1.0	13.12
1424	JOAQUIN	4940 (46)	64.3	46.3	34	1.0	1.0	6.5	1.0	12.78
1478	CAL ROJO	5690 (24)	62.5	41.5	27	1.0	1.0	1.0	2.5	12.00
1495	LASSIK	5910 (13)	63.1	36.1	33	1.0	1.0	1.0	1.0	11.65
1521	REDWING	6250 (7)	61.8	38.9	29	1.0	1.0	1.0	1.0	12.21
1522	BLANCA ROYALE	5590 (31)	63.8	39.4	30	1.0	1.0	1.0	1.0	12.17
1523	BLANCA FUERTE	6280 (6)	65.2	41.3	28	1.0	1.0	1.0	1.0	11.73
1526	PR 1404	5610 (29)	62.5	45.2	40	1.0	1.0	1.0	2.0	10.55
1548	WB-CRISTALLO	5690 (24)	63.8	40.4	31	1.0	1.0	1.0	1.3	12.68
1550	TRIPLE IV	3980 (51)	62.1	40.1	38	1.8	1.0	3.3	2.8	14.31
1555	LARIAT	5710 (22)	63.8	36.5	32	1.0	1.0	1.0	1.0	12.17
1590	ULTRA	6320 (4)	65.0	43.8	28	1.0	1.0	1.0	1.0	11.89
1608	FV 2808	5590 (31)	62.5	35.9	38	1.0	1.0	1.5	2.0	11.10
1650	WB-ROCKLAND	5510 (37)	64.0	41.8	30	1.0	1.0	1.0	1.5	14.93
1657	BLANCA GRANDE-515	5590 (31)	65.5	42.6	32	1.0	1.0	1.0	1.0	13.59
1658	SUMMIT 515	5700 (23)	63.7	41.3	30	1.0	1.0	1.0	1.0	12.05
1660	SY 314	5950 (10)	62.3	41.9	30	1.0	1.0	1.0	1.0	11.91
1667	NEW DIRKWIN	5490 (38)	58.6	36.9	37	1.0	1.3	1.0	1.5	12.41
1680	PATWIN 515	5520 (35)	62.9	36.9	30	1.0	1.0	1.0	1.3	12.07
1728	WB-JOAQUIN ORO	4400 (50)	63.9	46.7	35	1.0	1.0	1.0	2.3	14.65
1729	WB-PERLA	5130 (43)	63.8	45.1	32	1.0	1.0	1.0	1.3	12.90
1730	WB-9229	5720 (21)	63.5	38.2	31	1.0	1.0	1.0	1.3	14.32
1731	WB-PATRON	5860 (15)	63.5	43.2	36	1.0	1.0	1.0	2.0	12.32
1760	EXCEDE	5740 (19)	54.7	29.9	29	1.0	1.0	1.0	1.0	13.87
ADVANCED LINES										
1684	WWW CABR3509W	6160 (8)	64.0	41.5	33	1.0	1.0	3.8	1.8	10.94
1686	08SB100	4970 (45)	64.1	39.8	35	1.0	1.0	1.1	1.7	13.12
1688	08SB0658-B	5550 (34)	63.5	36.6	34	1.0	1.0	1.0	1.0	13.23
1716	WINCAL 09196	5920 (12)	64.2	37.1	30	1.0	1.0	1.0	1.0	11.60
1723	ATOMO	6150 (9)	64.2	39.1	33	1.0	1.0	1.8	1.3	12.60
1726	LG 08SB0738	6340 (2)	63.4	37.0	33	1.0	1.0	1.0	1.0	12.70
1727	LG 08SB0008-B	6350 (1)	62.2	44.4	30	1.0	1.0	2.3	1.5	13.01
1732	WWW BR2308W	6300 (5)	62.8	38.2	34	1.0	1.0	3.5	1.3	11.39
1740	UC 12210/10	5520 (35)	62.4	36.7	32	1.0	1.0	1.0	1.5	12.48
1741	UC 12010/20	5610 (29)	62.5	38.8	36	1.0	1.0	1.0	1.5	11.70
1742	UC 12010/25	5440 (40)	63.5	37.7	35	1.0	1.0	1.0	1.0	12.68
1743	UC 12013/33	5460 (39)	61.9	33.9	29	1.0	1.0	1.0	1.0	14.38
1744	UC 12013/34	4630 (49)	62.7	38.4	35	1.0	1.5	1.0	1.0	12.73
1745	UC 12014/35	5840 (17)	63.0	37.8	35	1.0	1.0	1.0	1.3	13.65
1746	APB 770229	5950 (10)	63.4	36.5	37	1.0	1.0	1.0	1.5	13.42
1747	APB 430701	5630 (27)	62.5	35.8	38	1.0	1.0	1.0	1.8	13.64
1748	WB SJ909-368	5280 (42)	64.4	38.2	35	1.0	1.0	1.0	1.5	12.40
1749	WB DA907-047	5650 (26)	64.1	40.9	31	1.0	1.0	1.0	1.5	12.33
1750	WB DA908-306	5760 (18)	64.3	42.6	32	1.0	1.0	1.0	1.5	12.70
1751	WB YU909-005	5860 (15)	62.9	47.3	37	1.0	1.0	1.0	1.5	12.61
1762	WWW CABR3477W	5730 (20)	63.5	38.0	36	1.0	1.0	1.8	1.0	13.81
1763	WWW CABR3439	4650 (48)	63.5	47.9	31	1.0	1.0	6.5	1.3	10.66
1764	WWW IDCHBR1971B	5620 (28)	59.6	34.1	37	1.0	1.0	3.8	1.5	12.45
TRITICALE										
3097	TRICAL 105	5650 (3)	59.6	43.4	38	1.0	1.0	1.0	1.0	-
3156	TRICAL 118	5510 (4)	58.6	35.3	37	1.0	1.0	1.0	1.0	-
3168	CAMELOT	5450 (5)	55.2	38.2	36	1.0	1.0	1.0	1.0	-
3169	SY 158T	6440 (1)	58.3	35.0	34	1.0	1.0	1.0	1.0	-
3170	SY 115T	5910 (2)	59.0	34.8	34	1.0	1.0	1.0	1.0	-
MEAN		5630	62.6	39.5	33	1.0	1.0	1.5	1.4	12.60
CV		8.1	1.1	4.0	4.6	12.7	10.2	37.1	40.4	
LSD (.05)		630	1.4	3.2	3	0.2	0.1	0.8	0.8	

Rating scale for 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%.

BYDV, lodging and shatter ratings (see scale above) were based on percentage of plants showing symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2013 Kern Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging		BYDV Anthamoni		Protein %
					Soft Dough	Harvest	5/6	5/6	
CULTIVARS									
20	ANZA	7230 (33)	62.3	41	2.8	3.8	1.8	1.0	10.35
112	YECORA ROJO	7230 (33)	63.1	36	2.5	1.8	3.0	1.0	11.99
788	EXPRESS	7310 (29)	62.8	41	2.8	2.3	1.5	1.0	11.93
1340	MIKA	6870 (39)	58.8	48	1.8	1.5	2.3	1.3	12.22
1419	PATWIN	7530 (23)	61.3	39	1.0	2.3	2.0	1.0	11.64
1424	JOAQUIN	8800 (1)	64.0	41	2.0	2.3	2.3	2.5	11.36
1478	CAL ROJO	7880 (13)	61.8	34	1.0	1.0	1.3	1.0	11.07
1495	LASSIK	7620 (20)	62.7	39	2.0	2.8	1.5	1.0	10.60
1521	REDWING	8310 (5)	61.8	36	1.0	1.0	2.0	1.3	10.34
1522	BLANCA ROYALE	7930 (10)	62.6	38	2.3	2.0	1.0	1.0	10.89
1523	BLANCA FUERTE	8330 (4)	65.4	37	1.0	1.0	1.5	1.0	10.15
1526	PR 1404	6800 (40)	59.8	42	4.5	5.3	2.8	1.8	10.73
1548	WB-CRISTALLO	7230 (33)	62.7	39	2.8	4.5	1.5	1.0	11.28
1550	TRIPLE IV	5370 (44)	61.0	42	7.0	7.3	2.8	1.0	11.84
1555	LARIAT	7930 (10)	63.0	38	1.0	1.3	2.0	1.0	10.30
1590	ULTRA	7570 (21)	63.4	37	1.5	1.8	1.5	1.0	11.05
1608	FV 2808	7290 (31)	61.1	46	4.0	4.8	1.5	1.0	10.16
1650	WB-ROCKLAND	7110 (37)	63.5	36	1.0	1.0	2.0	1.0	12.33
1657	BLANCA GRANDE-515	7650 (19)	64.9	39	3.3	4.0	1.0	1.0	11.62
1658	SUMMIT 515	8120 (7)	63.0	38	1.0	1.0	1.0	1.0	10.48
1660	SY 314	7540 (22)	60.1	38	1.0	1.0	1.5	1.0	11.09
1667	NEW DIRKWIN	4830 (45)	52.0	47	5.5	6.5	2.0	1.0	11.35
1680	PATWIN 515	7870 (14)	62.3	36	1.0	1.0	1.8	1.0	10.80
1728	WB-JOAQUIN ORO	8450 (3)	64.0	43	1.3	1.0	3.0	1.3	12.17
1729	WB-PERLA	7660 (18)	63.3	40	2.0	1.5	2.0	1.0	11.94
1730	WB-9229	7470 (26)	63.8	38	1.3	1.5	2.3	1.0	12.07
1731	WB-PATRON	7310 (29)	61.1	41	3.5	3.5	2.3	1.0	11.16
1760	EXCEDE	-	-	36	1.0	1.0	1.3	1.0	-
ADVANCED LINES									
1684	WWW CABR3509W	7830 (15)	63.0	38	3.0	2.5	2.5	1.3	9.65
1688	08SB0658-B	7100 (38)	61.8	42	5.3	5.8	1.3	1.0	12.06
1716	WINCAL 09196	6250 (42)	62.1	36	1.5	3.3	1.8	1.0	11.52
1723	ATOMO	8590 (2)	63.3	38	1.0	1.3	1.5	1.5	10.82
1732	WWW BR2308W	7810 (16)	62.1	40	4.0	3.8	2.3	1.0	9.23
1740	UC 12210/10	7290 (31)	60.8	39	1.5	3.8	2.0	1.0	11.05
1741	UC 12010/20	7430 (27)	61.0	43	2.5	2.5	2.3	1.0	11.75
1742	UC 12010/25	7690 (17)	61.8	44	2.3	2.5	1.8	1.0	11.93
1743	UC 12013/33	7480 (25)	60.5	35	1.0	1.0	1.5	1.0	12.52
1744	UC 12013/34	6050 (43)	61.4	42	6.0	6.8	2.3	1.0	11.93
1745	UC 12014/35	7950 (8)	63.2	41	1.8	2.3	1.5	1.0	10.93
1748	WB SJ909-368	7930 (10)	64.3	41	1.0	1.0	2.3	1.3	11.16
1749	WB DA907-047	7950 (8)	63.7	40	1.0	1.0	2.3	1.3	11.57
1750	WB DA908-306	8260 (6)	64.7	41	1.0	1.0	2.0	1.0	10.96
1751	WB YU909-005	7410 (28)	61.3	44	2.8	3.0	1.8	1.8	11.20
1762	WWW CABR3477W	7150 (36)	61.9	44	4.3	4.0	1.5	1.0	11.36
1763	WWW CABR3439	7530 (23)	61.9	40	4.8	4.5	1.8	4.0	10.46
1764	WWW IDCHBR1971B	6570 (41)	58.7	42	5.8	5.5	1.3	1.0	11.75
TRITICALE									
3097	TRICAL 105	8060 (3)	58.7	45	1.8	2.8	1.8	1.0	-
3156	TRICAL 118	8380 (1)	58.2	44	1.0	1.0	1.0	1.0	-
3168	CAMELOT	7820 (4)	55.1	45	1.3	1.5	1.3	1.0	-
3169	SY 158T	7460 (5)	55.3	39	1.0	1.0	1.8	1.3	-
3170	SY 115T	8170 (2)	57.7	40	1.0	1.0	1.8	1.0	-
MEAN		7510	61.6	40	2.3	2.6	1.8	1.2	11.22
CV		5.9	0.9	3.9	48.5	46.6	44.5	26.5	
LSD (.05)		620	1.2	2	1.6	1.7	1.1	0.43	

Rating scale for 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%.

BYDV and lodging 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.

2013 Imperial Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Lodging Harvest	Shatter	Protein %
				Kernel Wt (g)	Plant Ht (in)	Heading From (1/1)	Maturity			
CULTIVARS										
20	ANZA	6130 (30)	60.5	32.3	33	80	117	2.0	1.3	10.52
112	YECORA ROJO	6290 (27)	61.0	37.4	32	75	116	2.5	1.0	12.94
788	EXPRESS	6300 (25)	61.8	37.3	39	80	117	1.5	1.8	12.26
1340	MIKA	5700 (36)	57.8	29.0	38	81	118	1.3	1.0	13.22
1419	PATWIN	6530 (22)	58.3	33.1	34	77	117	1.0	1.0	13.46
1424	JOAQUIN	7080 (7)	62.0	38.7	38	76	116	4.0	1.0	12.21
1478	CAL ROJO	5910 (33)	59.0	31.6	31	77	116	1.3	1.0	11.99
1495	LASSIK	5720 (34)	60.3	29.2	33	79	117	2.3	1.0	11.84
1521	REDWING	6820 (12)	58.8	32.9	31	79	116	1.0	1.0	11.83
1522	BLANCA ROYALE	5610 (38)	59.8	29.3	33	78	116	2.8	1.3	11.61
1523	BLANCA FUERTE	6580 (17)	63.5	34.5	31	78	117	1.0	1.3	10.47
1526	PR 1404	6110 (31)	58.8	37.3	37	81	119	1.0	1.3	10.89
1548	WB-CRISTALLO	7210 (3)	60.5	30.0	35	81	117	2.0	1.0	12.28
1550	TRIPLE IV	4190 (47)	59.0	33.0	39	74	114	4.3	2.8	12.30
1555	LARIAT	5710 (35)	59.8	28.9	34	79	117	1.0	1.3	11.72
1590	ULTRA	7230 (2)	62.3	33.1	33	77	118	1.0	1.0	11.85
1608	FV 2808	5560 (39)	60.0	31.0	38	82	118	1.8	2.0	10.70
1650	WB-ROCKLAND	6270 (29)	62.0	32.2	33	79	117	1.0	1.0	12.91
1657	BLANCA GRANDE-515	6870 (10)	63.5	33.0	38	76	116	3.0	1.0	11.75
1658	SUMMIT 515	7170 (5)	61.3	32.6	33	80	118	1.0	1.0	11.98
1660	SY 314	6300 (25)	58.3	23.6	33	78	117	1.0	1.0	11.93
1667	NEW DIRKWIN	4260 (46)	56.5	23.5	38	-	121	1.3	2.5	11.21
1680	PATWIN 515	6740 (14)	59.0	25.4	32	81	118	1.0	1.0	12.61
1728	WB-JOAQUIN ORO	5200 (40)	62.0	39.1	37	75	114	2.8	2.0	12.86
1729	WB-PERLA	6910 (9)	61.8	35.4	36	75	115	4.0	1.0	12.18
1730	WB-9229	6580 (17)	61.3	31.4	35	80	118	1.0	1.0	12.90
1731	WB-PATRON	6560 (21)	60.5	35.8	38	77	117	1.5	1.3	12.11
1760	EXCEDE	-	-	-	27	116	-	-	-	-
ADVANCED LINES										
1684	WWW CABR3509W	6390 (23)	61.8	32.2	33	78	117	1.5	1.0	10.37
1688	08SB0658-B	4450 (45)	60.3	27.5	36	77	117	2.5	2.5	11.77
1716	WINCAL 09196	5700 (36)	60.3	28.3	30	81	119	1.0	1.0	11.40
1723	ATOMO	7180 (4)	61.0	30.2	33	79	116	1.8	1.0	11.90
1732	WWW BR2308W	6290 (27)	59.5	31.1	35	79	117	1.8	1.0	10.65
1740	UC 12210/10	6580 (17)	59.8	34.1	34	82	118	1.0	1.0	12.34
1741	UC 12010/20	4830 (44)	56.8	25.6	37	79	116	1.8	2.5	11.83
1742	UC 12010/25	6370 (24)	59.5	-	38	79	117	2.3	1.0	12.82
1743	UC 12013/33	6600 (16)	59.8	27.4	31	81	117	1.0	1.0	12.94
1744	UC 12013/34	5080 (41)	58.0	29.4	36	79	113	4.8	1.5	12.31
1745	UC 12014/35	6840 (11)	61.8	33.9	36	81	118	1.3	1.0	11.19
1746	APB 770229	6980 (8)	62.3	33.0	40	79	119	1.3	1.0	12.47
1747	APB 430701	5000 (43)	59.5	33.5	38	81	118	3.8	1.0	12.85
1748	WB SJ909-368	7100 (6)	62.3	32.4	37	76	116	3.5	1.0	12.10
1749	WB DA907-047	7360 (1)	61.5	31.1	35	78	118	1.5	1.0	12.48
1750	WB DA908-306	6660 (15)	62.8	39.4	37	76	117	1.0	1.0	11.01
1751	WB YU909-005	6580 (17)	59.5	38.0	38	80	118	1.3	1.0	11.42
1762	WWW CABR3477W	5020 (42)	59.3	27.2	37	79	115	3.0	1.5	12.00
1763	WWW CABR3439	6780 (13)	59.5	38.4	37	77	117	4.0	1.3	11.47
1764	WWW IDCHBR1971B	6080 (32)	58.3	29.9	35	81	118	1.0	1.0	12.50
TRITICALE										
3097	TRICAL 105	6710 (2)	57.3	36.6	43	78	118	4.0	1.0	-
3156	TRICAL 118	5800 (5)	56.5	33.3	39	76	118	2.8	1.0	-
3168	CAMELOT	6640 (3)	54.5	36.9	39	77	117	1.3	1.0	-
3169	SY 158T	6610 (4)	57.0	32.6	35	77	118	1.0	1.0	-
3170	SY 115T	6890 (1)	56.3	35.7	35	78	119	1.0	1.0	-
MEAN		6230	59.9	32.3	35	79	117	1.9	1.2	11.96
CV		5.6	1.8		3.6	2.5	0.8	33.7	36.5	
LSD (.05)		480	1.5		2	3	1	0.9	0.6	

Rating scale for 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%.

BYDV, lodging, and shatter 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.

2013 Davis Rainfed Common Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Shatter	Stripe Rust 5/1	BYDV 5/1	Protein %
				Kernel Wt (g)	Plant Ht (in)	Heading From (3/1)	Maturity				
CULTIVARS											
20	ANZA	4090 (32)	56.5	25.2	34	43	75	1.0	3.0	1.0	10.16
112	YECORA ROJO	4570 (13)	58.6	35.3	31	39	65	1.0	2.0	2.0	10.65
788	EXPRESS	4780 (10)	58.0	30.4	37	41	72	1.0	1.0	1.5	10.56
1340	MIKA	2600 (54)	54.1	25.4	38	44	74	1.0	1.0	2.3	11.77
1419	PATWIN	3930 (39)	54.2	23.9	34	45	73	1.0	1.0	1.3	12.16
1424	JOAQUIN	4800 (8)	56.5	30.3	36	40	68	1.0	4.8	1.3	12.32
1478	CAL ROJO	4290 (27)	54.1	25.8	31	42	71	1.0	1.0	1.0	11.87
1495	LASSIK	4260 (28)	56.9	25.4	34	42	74	1.0	1.0	1.0	10.21
1521	REDWING	4350 (24)	53.5	26.7	32	42	73	1.0	2.0	1.5	10.59
1522	BLANCA ROYALE	4400 (21)	54.6	24.4	35	41	70	1.0	1.0	1.5	12.74
1523	BLANCA FUERTE	5300 (1)	60.4	34.9	32	42	72	1.0	1.0	1.0	9.01
1526	PR 1404	3510 (48)	55.0	28.7	38	46	77	1.0	1.0	2.0	11.28
1548	WB-CRISTALLO	4890 (5)	57.7	31.2	35	42	73	1.0	1.0	1.0	10.60
1550	TRIPLE IV	3760 (43)	57.6	31.1	36	33	66	1.3	1.0	1.8	11.48
1555	LARIAT	3000 (53)	51.5	20.2	33	42	72	1.0	1.0	1.0	13.65
1590	ULTRA	3740 (44)	53.6	24.4	33	43	73	1.0	1.0	1.3	14.04
1608	FV 2808	3470 (49)	51.4	21.5	39	45	74	1.0	1.8	2.3	12.69
1650	WB-ROCKLAND	4370 (23)	56.9	28.1	33	41	72	1.0	1.0	1.0	12.57
1657	BLANCA GRANDE-515	4610 (11)	59.4	32.0	36	39	68	1.0	1.0	1.0	11.90
1658	SUMMIT 515	4430 (19)	55.3	28.2	34	43	71	1.0	1.0	1.0	11.45
1660	SY 314	4010 (36)	51.9	25.4	32	42	73	1.0	1.0	1.8	13.52
1667	NEW DIRKWIN	3240 (52)	53.4	27.3	36	47	77	1.0	1.0	1.0	12.52
1680	PATWIN 515	4080 (33)	54.3	23.6	32	43	74	1.0	1.0	1.3	9.86
1728	WB-JOAQUIN ORO	4880 (7)	57.7	30.2	37	35	65	1.0	1.0	1.3	11.47
1729	WB-PERLA	4560 (14)	57.4	29.3	37	37	67	1.0	1.0	1.3	12.55
1730	WB-9229	3950 (38)	55.6	23.5	35	41	72	1.0	1.0	1.3	12.72
1731	WB-PATRON	4020 (34)	54.6	28.8	38	40	70	1.0	1.0	1.3	10.25
1760	EXCEDE	3630 (46)	52.2	27.0	27	59	84	1.0	1.0	1.0	11.40
ADVANCED LINES											
1684	WWW CABR3509W	3980 (37)	54.9	25.8	34	40	70	1.0	1.3	2.0	11.48
1686	08SB100	3420 (51)	54.6	24.4	36	43	74	1.0	1.0	1.5	12.67
1688	08SB0658-B	4450 (17)	53.8	24.0	36	39	71	1.0	1.0	1.0	13.22
1716	WINCAL 09196	3430 (50)	52.6	20.9	29	46	74	1.0	1.0	1.0	13.96
1723	ATOMO	4790 (9)	54.8	25.4	34	41	73	1.0	1.0	1.0	12.15
1726	LG 08SB0738	3600 (47)	52.4	21.3	35	43	72	1.0	1.0	1.0	13.83
1727	LG 08SB0008-B	4580 (12)	56.5	31.6	34	43	75	1.0	1.8	1.0	11.97
1732	WWW BR2308W	4170 (31)	53.6	24.2	36	42	71	1.0	1.5	1.3	11.30
1740	UC 12210/10	3930 (40)	50.6	21.1	33	45	73	1.0	1.0	1.0	10.49
1741	UC 12010/20	3760 (42)	50.1	22.5	37	42	72	1.0	1.0	1.3	10.82
1742	UC 12010/25	3900 (41)	53.2	24.5	38	42	72	1.0	1.0	1.3	11.61
1743	UC 12013/33	4340 (25)	53.8	23.4	31	43	70	1.0	1.0	1.0	11.18
1744	UC 12013/34	4390 (22)	55.6	26.9	39	42	69	1.0	1.0	1.3	10.93
1745	UC 12014/35	4480 (16)	55.9	24.0	37	45	75	1.0	1.0	1.0	11.07
1748	WB SJ909-368	4550 (15)	57.3	26.7	38	41	69	1.0	1.0	1.3	11.92
1749	WB DA907-047	4400 (20)	54.9	25.7	34	42	72	1.0	1.0	1.0	12.95
1750	WB DA908-306	4440 (18)	56.9	27.3	36	41	71	1.0	1.0	1.0	11.62
1751	WB YU909-005	4180 (30)	54.2	29.9	38	44	75	1.0	1.0	1.5	12.28
1762	WWW CABR3477W	4320 (26)	58.9	30.1	37	40	70	1.3	1.0	1.3	9.91
1763	WWW CABR3439	3720 (45)	53.5	28.0	35	40	68	1.0	6.8	1.0	11.23
1764	WWW IDCHBR1971B	4010 (35)	51.5	21.9	37	45	76	1.0	2.3	1.5	14.81
TRITICALE											
3097	TRICAL 105	5000 (4)	56.2	38.9	42	39	74	1.0	1.0	1.0	-
3156	TRICAL 118	5100 (2)	56.6	31.1	38	39	74	1.0	1.0	1.0	-
3168	CAMELOT	4210 (29)	50.9	30.7	37	41	74	1.0	1.0	1.0	-
3169	SY 158T	5050 (3)	56.3	32.6	36	42	77	1.0	1.0	1.0	-
3170	SY 115T	4880 (6)	57.3	33.9	35	42	75	1.0	1.0	1.0	-
MEAN		4200	55.0	27.1	35	42	72	1.0	1.3	1.3	11.78
CV		13.3	2.3	8.5	4.5	3.4	2.5	9.4	38.8	34.1	
LSD (.05)		780	2.6	4.6	2	2	3	ns	0.7	0.6	

Rating scale for 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%.

BYDV and shatter 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.

2013 Common Wheat Stripe Rust Summary

Entry	Name	Stripe Rust						
		Mean (6 Loc)	Clarksburg	Colusa	UC Davis	Sac/SJ Delta	Fresno	UC Davis(RF)
CULTIVARS								
20	ANZA	3.0 (43)	1.0	2.8	4.3	4.5	3.3	3.0
112	YECORA ROJO	2.1 (37)	1.0	1.0	3.5	3.3	2.5	2.0
788	EXPRESS	1.2 (29)	1.0	1.0	1.3	1.5	1.3	1.0
1340	MIKA	2.9 (42)	1.3	2.8	3.5	5.0	3.0	1.0
1419	PATWIN	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1424	JOAQUIN	5.1 (45)	1.3	4.8	5.3	7.8	6.5	4.8
1478	CAL ROJO	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1495	LASSIK	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1521	REDWING	2.0 (36)	1.0	1.5	3.3	4.0	1.0	2.0
1522	BLANCA ROYALE	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1523	BLANCA FUERTE	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1526	PR 1404	1.2 (29)	1.0	1.0	1.0	2.0	1.0	1.0
1548	WB-CRISTALLO	1.9 (35)	1.0	1.5	1.0	4.8	1.0	1.0
1550	TRIPLE IV	2.5 (39)	1.0	1.3	2.8	5.0	3.3	1.0
1555	LARIAT	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1590	ULTRA	1.2 (29)	1.0	1.0	1.0	1.8	1.0	1.0
1608	FV 2808	2.6 (40)	1.0	3.5	2.3	4.8	1.5	1.8
1650	WB-ROCKLAND	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1657	BLANCA GRANDE-515	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1658	SUMMIT 515	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1660	SY 314	1.0 (1)	1.0	1.0	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	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1728	WB-JOAQUIN ORO	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1729	WB-PERLA	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1730	WB-9229	1.0 (1)	1.0	1.0	1.3	1.0	1.0	1.0
1731	WB-PATRON	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1760	EXCEDE	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
ADVANCED LINES								
1684	WWW CABR3509W	2.6 (40)	1.0	2.0	3.5	3.8	3.8	1.3
1688	08SB0658-B	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1716	WINCAL 09196	1.2 (29)	1.0	1.0	1.0	1.8	1.0	1.0
1723	ATOMO	1.2 (29)	1.0	1.0	1.0	1.3	1.8	1.0
1732	WWW BR2308W	2.4 (38)	1.0	1.5	2.5	3.8	3.5	1.5
1740	UC 12210/10	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1741	UC 12010/20	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1742	UC 12010/25	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1743	UC 12013/33	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1744	UC 12013/34	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1745	UC 12014/35	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1748	WB SJ909-368	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1749	WB DA907-047	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1750	WB DA908-306	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1751	WB YU909-005	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1762	WWW CABR3477W	1.4 (34)	1.0	1.0	1.3	2.3	1.8	1.0
1763	WWW CABR3439	6.1 (46)	2.3	6.5	7.5	8.0	6.5	6.8
1764	WWW IDCHBR1971B	3.8 (44)	1.0	4.8	5.3	5.8	3.8	2.3
TRITICALE								
3097	TRICAL 105	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
3156	TRICAL 118	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
3168	CAMELOT	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
3169	SY 158T	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
3170	SY 115T	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
MEAN		1.5	1.0	1.4	1.6	2.0	1.5	1.3
CV		35.4	22.5	29.5	38.4	21.2	37.1	38.8
LSD (.05)		0.3	0.3	0.6	0.9	0.6	0.8	0.7

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.

2013 Common Wheat Grain Protein Summary (%)

Entry	Name	Overall Mean (7 loc)	Sacramento Valley					San Joaquin Valley			Imperial Valley
			Mean (4 loc)	Colusa	UC Davis (IRR)	UC Davis (RF)	SJ Delta	Mean (2 loc)	Fresno	Kern	
20	ANZA	10.90 (46)	10.85 (48)	11.24	10.99	10.16	11.01	11.21 (44)	12.06	10.35	10.52 (45)
112	YECORA ROJO	12.06 (23)	11.70 (37)	12.63	11.16	10.65	12.37	12.34 (18)	12.69	11.99	12.94 (3)
788	EXPRESS	11.78 (35)	11.77 (31)	11.46	12.85	10.56	12.21	11.57 (34)	11.21	11.93	12.26 (18)
1340	MIKA	12.91 (7)	13.01 (5)	13.63	13.82	11.77	12.80	12.58 (15)	12.94	12.22	13.22 (2)
1419	PATWIN	12.61 (12)	12.52 (10)	13.02	12.28	12.16	12.60	12.38 (17)	13.12	11.64	13.46 (1)
1424	JOAQUIN	12.12 (18)	12.13 (20)	11.57	12.49	12.32	12.12	12.07 (23)	12.78	11.36	12.21 (19)
1478	CAL ROJO	11.85 (30)	11.98 (25)	12.43	11.17	11.87	12.44	11.54 (36)	12.00	11.07	11.99 (24)
1495	LASSIK	11.37 (44)	11.38 (44)	12.04	11.78	10.21	11.50	11.13 (45)	11.65	10.60	11.84 (29)
1521	REDWING	11.65 (39)	11.79 (29)	12.78	11.82	10.59	11.97	11.28 (41)	12.21	10.34	11.83 (30)
1522	BLANCA ROYALE	12.08 (21)	12.48 (11)	12.21	12.09	12.74	12.87	11.53 (37)	12.17	10.89	11.61 (35)
1523	BLANCA FUERTE	10.66 (50)	10.56 (51)	12.48	9.38	9.01	11.38	10.94 (46)	11.73	10.15	10.47 (46)
1526	PR 1404	10.82 (47)	10.90 (47)	11.52	9.49	11.28	11.31	10.64 (47)	10.55	10.73	10.89 (42)
1548	WB-CRISTALLO	11.71 (37)	11.44 (43)	12.03	11.55	10.60	11.58	11.98 (24)	12.68	11.28	12.28 (17)
1550	TRIPLE IV	12.51 (13)	12.28 (15)	11.65	12.85	11.48	13.12	13.08 (9)	14.31	11.84	12.30 (16)
1555	LARIAT	11.85 (31)	12.19 (18)	12.16	10.70	13.65	12.23	11.24 (43)	12.17	10.30	11.72 (34)
1590	ULTRA	12.07 (22)	12.43 (13)	11.87	11.74	14.04	12.06	11.47 (39)	11.89	11.05	11.85 (28)
1608	FV 2808	10.75 (49)	10.83 (49)	11.06	9.18	12.69	10.38	10.63 (48)	11.10	10.16	10.70 (43)
1650	WB-ROCKLAND	13.20 (1)	13.06 (3)	13.03	13.86	12.57	12.78	13.63 (3)	14.93	12.33	12.91 (5)
1657	BLANCA GRANDE-515	11.99 (25)	11.75 (33)	11.04	11.84	11.90	12.21	12.61 (13)	13.59	11.62	11.75 (33)
1658	SUMMIT 515	11.62 (40)	11.72 (35)	11.86	11.86	11.45	11.69	11.27 (42)	12.05	10.48	11.98 (25)
1660	SY 314	12.10 (19)	12.45 (12)	12.19	11.53	13.52	12.56	11.50 (38)	11.91	11.09	11.93 (26)
1667	NEW DIRKWIN	11.91 (26)	12.09 (22)	12.50	11.48	12.52	11.87	11.88 (27)	12.41	11.35	11.21 (39)
1680	PATWIN 515	11.79 (34)	11.77 (32)	12.89	11.94	9.86	12.39	11.44 (40)	12.07	10.80	12.61 (10)
1728	WB-JOAQUIN ORO	12.65 (10)	12.22 (17)	12.63	12.51	11.47	12.28	13.41 (6)	14.65	12.17	12.86 (7)
1729	WB-PERLA	12.16 (17)	12.02 (24)	11.72	11.09	12.55	12.71	12.42 (16)	12.90	11.94	12.18 (20)
1730	WB-9229	12.62 (11)	12.26 (16)	11.86	12.11	12.72	12.36	13.20 (7)	14.32	12.07	12.90 (6)
1731	WB-PATRON	11.82 (33)	11.79 (29)	12.77	11.62	10.25	12.52	11.74 (31)	12.32	11.16	12.11 (21)
1760	EXCEDE	13.06 (2)	12.79 (6)	14.25	12.71	11.40	-	13.87 (1)	13.87	-	-
ADVANCED LINES											
1684	WWW CABR3509W	10.76 (48)	11.09 (45)	11.45	10.66	11.48	10.78	10.30 (51)	10.94	9.65	10.37 (47)
1686	LG 08SB100	12.88 (9)	12.77 (7)	-	12.86	12.67	-	13.12 (8)	13.12	-	-
1688	08SB0658-B	12.10 (20)	11.91 (28)	13.09	9.36	13.22	11.98	12.65 (12)	13.23	12.06	11.77 (32)
1716	WINCAL 09196	11.89 (28)	12.17 (19)	11.97	11.58	13.96	11.18	11.56 (35)	11.60	11.52	11.40 (38)
1723	ATOMO	11.71 (38)	11.66 (38)	12.14	9.68	12.15	12.66	11.71 (33)	12.60	10.82	11.90 (27)
1726	LG 08SB0738	12.97 (3)	13.11 (2)	-	12.39	13.83	-	12.70 (11)	12.70	-	-
1727	LG 08SB0008-B	12.39 (15)	12.08 (23)	-	12.18	11.97	-	13.01 (10)	13.01	-	-
1732	WWW BR2308W	10.56 (51)	10.66 (50)	10.84	9.52	11.30	10.97	10.31 (50)	11.39	9.23	10.65 (44)
1740	UC 12210/10	11.83 (32)	11.74 (34)	13.43	10.77	10.49	12.26	11.77 (30)	12.48	11.05	12.34 (14)
1741	UC 12010/20	11.87 (29)	11.96 (26)	12.19	12.53	10.82	12.28	11.73 (32)	11.70	11.75	11.83 (30)
1742	UC 12010/25	12.04 (24)	11.72 (35)	12.04	11.05	11.61	12.16	12.31 (20)	12.68	11.93	12.82 (9)
1743	UC 12013/33	12.89 (8)	12.60 (9)	13.45	12.64	11.18	13.12	13.45 (4)	14.38	12.52	12.94 (3)
1744	UC 12013/34	12.19 (16)	12.10 (21)	12.20	12.81	10.93	12.44	12.33 (19)	12.73	11.93	12.31 (15)
1745	UC 12014/35	11.72 (36)	11.56 (40)	10.93	12.96	11.07	11.29	12.29 (21)	13.65	10.93	11.19 (40)
1746	APB 770229	12.97 (4)	13.02 (4)	-	13.02	-	-	13.42 (5)	13.42	-	12.47 (13)
1747	APB 430701	12.94 (5)	12.33 (14)	-	12.33	-	-	13.64 (2)	13.64	-	12.85 (8)
1748	WB SJ909-368	11.91 (27)	11.92 (27)	12.35	11.05	11.92	12.36	11.78 (29)	12.40	11.16	12.10 (22)
1749	WB DA907-047	12.45 (14)	12.70 (8)	12.39	12.98	12.95	12.47	11.95 (25)	12.33	11.57	12.48 (12)
1750	WB DA908-306	11.50 (43)	11.45 (42)	10.74	11.82	11.62	11.62	11.83 (28)	12.70	10.96	11.01 (41)
1751	WB YU909-005	11.59 (41)	11.48 (41)	11.62	10.24	12.28	11.79	11.91 (26)	12.61	11.20	11.42 (37)
1762	WWW CABR3477W	11.58 (42)	10.97 (46)	11.42	10.86	9.91	11.69	12.59 (14)	13.81	11.36	12.00 (23)
1763	WWW CABR3439	11.29 (45)	11.61 (39)	12.51	10.99	11.23	11.71	10.56 (49)	10.66	10.46	11.47 (36)
1764	WWW IDCHBR1971B	12.92 (6)	13.43 (1)	13.78	12.72	14.81	12.40	12.10 (22)	12.45	11.75	12.50 (11)
MEAN		11.99	11.95	12.20	11.66	11.72	12.06	11.90	12.60	11.22	11.96

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

2013 Davis Common Wheat Trial, Quality Evaluation

Entry Name	Wheat								Flour				Farinograph					Bread		
	Pro	Ash	Test Wt	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													
CULTIVARS																				
20 ANZA	10.99	1.57	61.4	32.9	151.4	47.2	1.5	72.2	9.41	0.43	355	27.7	58.0	1.50	2.25	3.00	100	800	6	5
112 YECORA ROJO	11.16	1.57	61.5	45.7	168.3	31.3	0.5	68.8	10.51	0.46	419	29.9	58.0	1.25	6.75	27.75	10	875	7	7
788 EXPRESS	12.85	1.67	61.7	36.1	163.1	36.6	0.8	69.2	11.52	0.50	415	34.6	62.6	2.50	4.50	10.50	30	1030	9	9
1340 MIKA	13.82	1.85	59.3	33.3	145.9	53.5	0.7	63.4	11.99	0.47	445	33.8	60.4	3.25	6.00	31.75	20	980	9	9
1419 PATWIN	12.28	1.71	60.3	32.7	147.4	51.8	0.8	65.9	10.83	0.55	444	30.5	61.6	3.00	7.50	20.00	20	950	9	9
1424 JOAQUIN	12.49	1.63	58.5	34.3	138.6	60.0	1.3	69.9	11.52	0.46	442	30.5	60.6	3.75	19.75	10.00	-	1010	9	9
1478 CAL ROJO	11.17	1.53	60.2	41.0	165.9	33.5	1.0	68.7	9.89	0.36	394	24.5	56.0	1.50	3.75	10.50	20	875	8	7
1495 LASSIK	11.78	1.54	61.4	31.9	135.4	62.9	2.3	71.8	9.95	0.41	408	26.0	58.6	1.75	4.25	7.75	60	875	8	9
1521 REDWING	11.82	1.41	60.1	36.8	168.8	30.1	0.7	70.1	10.50	0.48	421	25.9	60.4	2.00	5.25	13.50	40	900	8	7
1522 BLANCA ROYALE	12.09	1.40	61.8	36.5	164.8	34.2	0.7	69.1	10.53	0.43	475	27.2	56.4	1.25	9.00	6.00	20	890	7	7
1523 BLANCA FUERTE	9.38	1.41	63.4	38.0	178.7	19.8	1.2	71.3	8.32	0.38	431	19.3	56.8	1.00	1.50	4.50	40	780	5	5
1526 PR 1404	9.49	1.48	60.9	39.8	167.3	32.7	0.7	71.7	8.25	0.39	453	21.1	53.6	1.00	7.00	2.50	90	690	5	4
1548 WB-CRISTALLO	11.55	1.54	62.4	41.0	177.0	22.8	0.4	71.4	9.68	0.44	448	27.3	59.0	1.75	7.50	14.25	40	900	7	7
1550 TRIPLE IV	12.85	1.56	61.8	39.8	171.9	27.9	0.4	67.6	11.50	0.42	474	24.3	63.4	5.00	7.25	5.50	30	890	8	7
1555 LARIAT	10.70	1.60	61.7	32.8	150.9	47.6	2.0	66.7	9.94	0.52	449	24.2	54.6	1.25	5.25	13.25	30	800	7	6
1590 ULTRA	11.74	1.61	62.0	38.3	163.7	35.4	0.6	69.2	10.12	0.48	459	29.4	56.4	1.25	2.75	11.75	30	875	7	7
1608 FV 2808	9.18	1.62	62.3	39.8	170.0	29.7	0.6	65.6	7.74	0.48	384	21.8	60.0	1.00	1.50	3.50	60	680	5	4
1650 WB-ROCKLAND	13.86	1.54	61.6	35.7	162.8	36.4	0.5	68.7	12.25	0.40	427	34.7	61.4	3.50	8.50	18.00	10	1025	9	9
1657 BLANCA GRANDE 515	11.84	1.44	64.0	43.1	177.6	21.8	0.5	69.2	10.46	0.45	390	29.4	61.4	2.75	6.25	19.25	30	950	9	9
1658 SUMMIT 515	11.86	1.49	62.0	39.1	173.6	26.2	0.5	69.8	10.32	0.42	398	28.9	59.0	1.75	3.75	13.00	20	925	8	8
1660 SY 314	11.53	1.79	59.2	36.9	159.4	39.4	1.4	66.4	10.51	0.48	383	26.0	57.0	1.75	6.25	23.00	20	900	8	8
1667 NEW DIRKWIN	11.48	1.75	58.9	37.5	169.5	29.7	0.6	60.6	9.88	0.36	400	28.5	54.4	1.50	2.50	3.50	100	770	7	6
1680 PATWIN 515	11.94	1.65	60.9	34.0	155.9	43.1	1.0	65.9	10.44	0.50	465	29.8	57.4	1.75	4.50	20.75	30	940	9	9
1728 WB-JOAQUIN ORO	12.51	1.55	62.9	41.0	176.8	22.7	0.4	68.3	11.54	0.44	425	32.7	64.4	9.00	20.25	19.50	10	986	9	9
1729 WB-PERLA	11.09	1.63	61.9	40.5	170.3	29.2	0.6	66.0	9.60	0.47	394	24.5	65.2	5.75	26.75	-	-	940	9	9
1730 WB-9229	12.11	1.52	62.9	39.7	170.0	29.9	0.7	68.9	11.15	0.54	433	29.9	63.2	2.25	11.00	-	30	965	9	9
1731 WB-PATRON	11.62	1.52	62.5	42.2	177.9	21.9	0.4	71.2	10.35	0.47	405	29.2	58.6	2.00	3.75	11.00	20	780	5	5
1760 EXCEDE	12.71	1.76	55.4	29.2	138.9	60.0	0.5	65.5	10.96	0.50	445	33.3	58.6	2.00	3.50	9.75	20	860	6	7
ADVANCED LINES																				
1684 WWW CABR3509W	10.66	1.72	61.0	39.5	163.0	36.2	0.9	66.7	9.84	0.54	440	28.0	58.4	1.50	3.50	5.25	60	760	7	7
1686 LG 08SB100	12.86	1.75	62.0	34.6	157.5	42.9	0.9	67.9	11.71	0.42	432	28.5	58.6	1.25	12.25	38.25	-	960	9	9
1688 LG 08SB0658-B	9.36	1.53	61.9	36.9	177.2	22.5	0.5	67.9	8.36	0.46	463	22.3	55.4	1.00	1.50	3.00	60	760	7	6
1716 WINCAL 09196	11.58	1.71	62.7	35.7	149.4	49.6	1.1	67.7	10.00	0.49	409	25.9	61.4	2.00	2.50	11.50	10	875	7	8
1723 LG ATOMO	9.68	1.80	63.8	42.7	182.7	17.2	0.4	67.3	8.67	0.59	483	21.8	61.4	1.00	2.25	4.50	60	740	6	6
1726 LG 08SB0738	12.39	1.73	61.8	36.4	164.1	34.8	1.0	69.9	11.13	0.53	466	31.2	61.0	2.25	9.50	28.00	10	880	7	7
1727 LG 08SB0008-B	12.18	1.67	60.8	41.5	176.8	22.9	0.5	67.6	10.60	0.52	471	289.0	62.0	6.00	10.75	8.00	50	820	7	6
1732 WWW BR2308W	9.52	1.61	61.8	41.5	178.1	21.3	0.6	67.9	8.45	0.49	372	24.0	59.2	1.25	1.50	5.50	30	750	5	5
1740 UC 12210/10	10.77	1.65	60.2	35.7	154.5	44.1	1.2	63.9	9.52	0.60	442	25.4	61.4	1.75	4.50	6.50	20	900	8	8
1741 UC 12010/20	12.53	1.73	59.6	35.6	165.4	33.7	0.7	67.4	10.57	0.52	438	29.3	60.6	2.00	7.25	-	20	970	9	9
1742 UC 12010/25	11.05	1.61	62.5	36.5	164.6	34.6	0.7	67.5	10.19	0.51	477	284.0	61.0	1.75	3.25	19.75	20	885	8	7
1743 UC 12013/33	12.64	1.61	60.9	33.4	148.9	49.6	1.3	67.7	10.79	0.49	460	32.6	62.2	3.25	30.00	-	20	980	9	9
1744 UC 12013/34	12.81	1.61	61.2	34.9	150.1	48.6	1.3	68.0	11.32	0.47	438	32.2	58.6	3.25	9.50	25.75	10	1000	9	9
1745 UC 12014/35	12.96	1.47	63.0	40.0	178.2	21.1	0.6	71.8	10.35	0.36	366	31.3	60.0	2.75	5.50	6.50	60	945	8	9
1746 APB 770229	13.02	1.60	63.0	38.6	163.6	36.5	0.4	70.0	11.42	0.42	451	29.4	60.8	14.50	21.75	-	10	1075	9	9
1747 APB 430701	12.33	1.59	61.8	35.2	151.7	46.9	1.3	68.5	10.74	0.49	457	28.4	57.0	1.50	13.50	38.50	20	930	7	8
1748 WB SJ909-368	11.05	1.57	62.7	36.8	160.3	38.6	1.0	67.2	9.63	0.43	494	26.9	61.4	3.00	8.00	-	-	900	8	8
1749 WB DA907-047	12.98	1.55	62.1	36.1	156.6	42.7	0.7	71.5	11.65	0.39	418	26.0	64.0	3.00	7.25	-	30	1010	9	9
1750 WB DA908-306	11.82	1.49	63.7	40.5	174.8	25.0	0.5	67.5	9.98	0.42	478	32.9	62.0	2.75	23.50	33.25	10	870	8	8
1751 WB YU909-005	10.24	1.53	61.4	45.9	183.3	16.2	0.6	72.2	8.96	0.38	426	22.6	56.2	1.00	1.50	13.25	30	730	5	5
1762 WWW CABR3477W	10.86	1.62	62.6	37.6	152.3	45.4	1.7	68.3	9.61	0.47	526	23.6	61.0	2.00	3.00	4.50	50	860	6	6
1763 WWW CABR3439	10.99	1.50	57.4	35.5	146.2	58.2	1.5	66.4	9.42	0.48	445	21.6	59.4	1.25	2.00	11.25	20	875	7	7
1764 WWW IDCHBR1971B	12.72	1.76	60.6	35.2	152.4	47.2	0.7	64.6	10.99	0.54	499	28.1	63.6	1.50	7.00	32.00	20	850	6	6

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

2013 Fresno Common Wheat Trial, Quality Evaluation

Entry	Name	Wheat							Flour				Farinograph					Bread			
		Pro	Ash	Test Wt	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													
CULTIVARS																					
20	ANZA	12.06	1.51	63.6	34.3	151.9	47.0	0.8	72.6	11.05	0.40	372	31.8	60.2	1.50	2.50	4.00	80	835	7	6
112	YECORA ROJO	12.69	1.41	64.6	48.1	183.7	16.2	0.3	71.5	10.63	0.52	41	28.3	60.8	2.25	9.00	31.75	25	910	8	8
788	EXPRESS	11.21	1.52	64.3	39.5	179.1	20.8	0.3	70.1	11.12	0.47	427	31.8	64.8	3.25	12.00	14.00	25	1020	9	9
1340	MIKA	12.94	1.47	62.6	39.7	173.9	25.4	0.3	67.7	11.55	0.55	430	30.8	61.4	2.00	4.75	21.00	40	965	9	9
1419	PATWIN	13.12	1.49	62.5	35.2	161.6	37.5	0.6	68.7	11.48	0.52	433	31.8	62.8	2.25	4.75	22.00	10	965	9	9
1424	JOAQUIN	12.78	1.45	64.8	45.5	187.4	13.0	0.1	74.1	11.30	0.40	307	32.6	63.2	3.50	5.50	13.50	40	975	9	9
1478	CAL ROJO	12.00	1.39	63.1	40.7	176.2	23.4	0.8	70.9	10.13	0.41	437	30.5	56.8	2.00	6.25	28.50	15	910	8	8
1495	LASSIK	11.65	1.43	63.9	37.5	174.2	25.1	0.5	73.3	10.48	0.39	324	29.8	60.6	1.75	4.50	12.25	45	800	6	6
1521	REDWING	12.21	1.46	62.2	39.7	182.6	17.0	0.4	68.3	10.64	0.44	438	28.5	61.4	1.25	5.00	-	30	850	7	7
1522	BLANCA ROYALE	12.17	1.54	64.4	38.0	177.1	22.8	0.3	67.5	11.15	0.46	413	28.1	57.2	1.25	7.00	-	20	800	5	5
1523	BLANCA FUERTE	11.73	1.45	66.2	43.9	188.2	11.5	0.4	70.1	9.95	0.43	446	26.7	58.6	1.25	2.00	18.75	35	800	5	5
1526	PR 1404	10.55	1.50	63.3	42.9	189.5	11.1	0.1	71.4	8.50	0.40	386	23.8	54.6	0.75	1.25	23.50	35	725	5	4
1548	WB-CRISTALLO	12.68	1.44	64.3	39.2	184.4	16.1	0.2	71.5	11.57	0.41	421	29.3	60.6	2.00	7.75	23.00	10	950	9	9
1550	TRIPLE IV	14.31	1.61	62.6	41.2	172.6	27.2	0.4	65.0	12.54	0.43	482	33.7	65.0	2.50	6.00	13.00	20	900	8	8
1555	LARIAT	12.17	1.54	64.0	36.1	163.6	36.1	0.6	68.0	10.51	0.40	403	29.5	57.2	1.25	3.75	15.75	30	875	6	6
1590	ULTRA	11.89	1.45	65.5	41.2	181.4	18.4	0.4	70.5	10.23	0.44	403	27.3	55.8	1.50	6.00	24.50	20	810	6	6
1608	FV 2808	11.10	1.57	63.4	36.2	173.9	25.8	0.5	67.0	9.44	0.46	344	24.3	60.4	2.00	5.50	6.25	95	760	5	4
1650	WB-ROCKLAND	14.93	1.40	64.4	40.7	187.2	13.1	0.1	72.1	12.58	0.50	443	39.7	66.6	6.00	8.50	10.00	20	1050	9	9
1657	BLANCA GRANDE 515	13.59	1.41	65.7	44.7	186.7	13.3	0.1	71.9	11.39	0.41	384	33.5	63.8	3.50	10.00	31.50	-	1015	9	9
1658	SUMMIT 515	12.05	1.48	64.0	41.8	181.7	18.2	0.3	70.3	10.58	0.61	38	29.1	61.4	2.00	3.50	18.00	10	900	8	8
1660	SY 314	11.91	1.36	62.9	41.3	176.7	22.8	0.6	70.1	10.85	0.52	395	26.0	57.8	1.25	3.00	18.75	15	850	7	7
1667	NEW DIRKWIN	12.41	1.55	59.6	36.5	175.9	23.8	0.3	66.6	10.07	0.58	331	29.2	55.0	1.50	2.25	3.00	80	780	6	6
1680	PATWIN 515	12.07	1.41	63.3	35.3	169.6	36.2	0.3	68.9	10.86	0.60	423	29.3	61.6	2.25	4.75	22.75	40	960	9	9
1728	WB-JOAQUIN ORO	14.65	1.73	64.2	43.3	189.3	10.3	0.1	73.0	12.87	0.39	492	37.9	67.6	3.00	5.75	23.00	20	1030	9	9
1729	WB-PERLA	12.90	1.44	64.6	43.5	187.4	13.1	0.1	73.0	11.19	0.42	397	31.3	67.6	3.25	11.25	19.25	10	1060	9	9
1730	WB-9229	14.32	1.49	64.0	39.8	178.1	21.7	0.1	72.6	12.37	0.49	512	33.3	64.6	4.50	12.00	-	-	1060	9	9
1731	WB-PATRON	12.32	9.45	64.0	427.0	188.3	11.9	0.2	71.5	9.75	0.47	383	30.3	59.2	1.50	3.50	14.00	40	780	6	6
1760	EXCEDE	13.87	1.75	55.5	28.7	141.6	57.9	0.7	67.2	11.97	0.38	418	36.8	62.0	3.75	5.75	4.50	50	825	6	6
ADVANCED LINES																					
1684	WWW CABR3509W	10.94	1.49	64.4	40.5	179.4	20.4	0.4	72.4	9.70	0.43	441	27.5	61.6	3.50	5.50	4.00	80	760	4	4
1686	LG 08SB100	13.12	1.55	64.5	38.9	168.1	31.2	0.4	71.4	10.75	0.41	397	31.5	61.0	2.00	8.75	26.00	15	930	8	8
1688	LG 08SB0658-B	13.23	1.45	64.0	36.6	172.3	27.0	0.8	71.6	11.08	0.54	419	32.0	58.6	1.75	12.50	32.50	20	930	8	8
1716	WINCAL 09196	11.60	1.54	65.0	37.3	169.1	30.7	0.4	69.2	9.86	0.71	408	26.2	61.6	1.25	2.00	24.75	20	890	7	8
1723	LG ATOMO	12.60	1.49	65.2	38.5	178.6	21.1	0.3	69.0	10.78	0.72	499	29.5	63.0	1.50	2.50	28.00	10	860	7	7
1726	LG 08SB0738	12.70	1.44	63.7	37.7	181.9	18.2	0.5	66.3	10.98	0.53	429	31.2	63.0	4.00	14.50	31.50	5	890	8	8
1727	LG 08SB0008-B	13.01	1.33	62.7	44.1	184.9	15.1	0.2	72.5	11.45	0.45	384	32.2	64.2	8.25	10.50	5.25	20	900	8	8
1732	WWW BR2308W	11.39	1.33	63.4	38.8	171.2	28.4	0.6	72.2	9.60	0.41	461	25.4	60.6	2.00	4.00	6.00	50	840	6	6
1740	UC 12210/10	12.48	1.55	61.9	36.0	160.6	38.5	1.0	69.5	10.43	0.51	393	30.4	61.6	2.25	5.00	11.50	20	950	9	9
1741	UC 12010/20	11.70	1.42	63.1	39.1	181.8	18.2	0.3	69.7	9.89	0.43	423	28.0	60.4	1.50	6.75	19.50	40	890	8	8
1742	UC 12010/25	12.68	1.34	63.6	39.1	173.2	26.9	0.4	71.0	11.21	0.41	441	34.0	64.2	2.50	4.75	27.50	10	1000	9	9
1743	UC 12013/33	14.38	1.45	62.5	33.2	150.9	48.9	0.3	70.5	11.85	0.41	482	34.2	63.4	4.00	7.75	21.50	10	1035	9	9
1744	UC 12013/34	12.73	1.47	61.8	39.2	182.9	16.8	0.2	71.4	10.79	0.42	482	30.2	60.2	2.25	6.00	-	20	975	9	9
1745	UC 12014/35	13.65	1.50	63.5	36.1	163.1	36.0	0.7	70.3	11.11	0.41	391	34.2	62.4	3.25	5.75	7.75	40	975	9	9
1746	APB 770229	13.42	1.40	63.9	39.2	173.5	26.8	0.3	72.7	11.64	0.41	430	34.2	62.0	11.50	10.75	15.50	20	1010	9	9
1747	APB 430701	13.64	1.42	62.6	36.5	159.9	39.5	0.7	71.7	11.76	0.44	441	32.2	59.4	1.50	8.25	32.50	10	965	9	9
1748	WB SJ909-368	12.40	1.34	64.6	37.5	177.8	22.4	0.3	71.2	11.44	0.44	420	30.2	65.8	4.00	18.00	30.50	10	965	9	9
1749	WB DA907-047	12.33	1.40	64.7	39.5	180.7	19.5	0.3	68.9	10.95	0.46	386	31.3	64.6	3.00	4.50	15.50	30	1025	9	9
1750	WB DA908-306	12.70	1.24	65.5	42.4	181.7	18.0	0.2	68.7	11.58	0.42	409	32.3	63.0	8.00	18.25	20.50	10	950	9	9
1751	WB YU909-005	12.61	1.43	63.4	47.2	188.9	11.2	0.2	72.1	11.21	0.41	429	31.6	56.0	1.00	1.50	19.00	20	750	4	4
1762	WWW CABR3477W	13.81	1.33	63.9	39.2	163.4	35.9	0.6	72.4	11.86	0.38	460	34.1	61.0	1.50	3.50	9.25	30	850	8	7
1763	WWW CABR3439	10.66	1.39	63.9	49.3	188.4	11.5	0.3	70.5	9.06	0.41	436	21.3	62.0	1.25	2.00	10.25	30	790	6	6
1764	WWW IDCHBR1971B	12.45	1.32	62.1	36.9	169.8	30.6	0.4	70.4	10.65	0.47	448	28.8	64.2	1.50	21.50	28.50	10	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

2011-2013 Common Wheat Over Year Yield Summary

Entry	Name	Sacramento Valley			San Joaquin Valley			Imperial Valley		
		2013 (3 Loc)	2012-13 (6 Loc/Yr)	2011-13 (9 Loc/Yr)	2013 (2 Loc)	2012-13 (5 Loc/Yr)	2011-13 (8 Loc/Yr)	2013 (1 Loc)	2012-13 (2 Loc/Yr)	2011-13 (3 Loc/Yr)
CULTIVARS										
20	ANZA	4220 (35)	4450 (12)	4260 (9)	6780 (14)	5870 (14)	5840 (11)	6130 (30)	6890 (12)	6300 (5)
112	YECORA ROJO	4600 (21)	-	-	6170 (38)	-	-	6290 (27)	-	-
788	EXPRESS	4660 (19)	4540 (11)	4780 (6)	6310 (35)	5840 (15)	6250 (9)	6300 (25)	6800 (14)	5660 (12)
1340	MIKA	2940 (45)	3360 (15)	3260 (12)	5850 (42)	4660 (19)	5100 (12)	5700 (36)	6190 (19)	4920 (14)
1419	PATWIN	4250 (33)	-	-	6700 (18)	-	-	6530 (22)	-	-
1424	JOAQUIN	4550 (24)	4570 (10)	4030 (10)	6870 (10)	6300 (3)	6500 (5)	7080 (7)	7560 (2)	6900 (1)
1478	CAL ROJO	4330 (31)	-	-	6790 (13)	-	-	5910 (33)	6350 (17)	5780 (10)
1495	LASSIK	4390 (29)	-	-	6770 (15)	-	-	5720 (34)	-	-
1521	REDWING	4910 (7)	-	-	7280 (3)	-	-	6820 (12)	6840 (13)	6180 (6)
1522	BLANCA ROYALE	4930 (6)	-	-	6760 (16)	6120 (7)	6660 (2)	5610 (38)	6200 (18)	5690 (11)
1523	BLANCA FUERTE	4880 (8)	-	-	7310 (2)	6480 (2)	6850 (1)	6580 (17)	7240 (4)	6800 (2)
1526	PR 1404	4150 (37)	-	-	6210 (37)	-	-	6110 (31)	-	-
1548	WB-CRISTALLO	4980 (5)	4880 (3)	5070 (2)	6460 (28)	6050 (11)	6270 (8)	7210 (3)	7240 (4)	6030 (8)
1550	TRIPLE IV	3270 (43)	-	-	4680 (45)	-	-	4190 (47)	-	-
1555	LARIAT	4070 (38)	-	-	6820 (11)	-	-	5710 (35)	-	-
1590	ULTRA	5210 (3)	-	-	6950 (7)	-	-	7230 (2)	-	-
1608	FV 2808	3890 (40)	-	-	6440 (29)	-	-	5560 (39)	-	-
1650	WB-ROCKLAND	4500 (26)	4700 (8)	4940 (4)	6310 (35)	5750 (17)	5990 (10)	6270 (29)	6760 (15)	5980 (9)
1657	BLANCA GRANDE 515	5270 (1)	-	-	6620 (21)	6120 (7)	6430 (7)	6870 (10)	7270 (3)	6510 (3)
1658	SUMMIT 515	4870 (9)	-	-	6910 (8)	-	-	7170 (5)	-	-
1660	SY 314	4300 (32)	-	-	6750 (17)	-	-	6300 (25)	-	-
1667	NEW DIRKWIN	3250 (44)	3790 (14)	3780 (11)	5160 (44)	4440 (20)	4720 (13)	4260 (46)	5210 (22)	4860 (15)
1680	PATWIN 515	4790 (13)	4860 (5)	5040 (3)	6700 (18)	6210 (5)	6520 (4)	6740 (14)	7000 (11)	6370 (4)
1728	WB-JOAQUIN ORO	4670 (18)	-	-	6430 (31)	5840 (15)	-	5200 (40)	6520 (16)	-
1729	WB-PERLA	4430 (28)	4400 (13)	4400 (8)	6400 (33)	5940 (13)	-	6910 (9)	7230 (6)	-
1730	WB-9229	4730 (16)	-	-	6600 (23)	6270 (4)	-	6580 (17)	7050 (9)	-
1731	WB-PATRON	4180 (36)	4790 (7)	4790 (5)	6590 (24)	5990 (12)	-	6560 (21)	7060 (8)	-
1760	EXCEDE	2870 (46)	-	-	-	-	-	-	-	-
ADVANCED LINES										
1684	WWW CABR3509W	4750 (14)	4640 (9)	4680 (7)	7000 (6)	6200 (6)	6440 (6)	6390 (23)	7030 (10)	6160 (7)
1686	LG 08SB100	-	-	-	-	-	-	-	-	-
1688	LG 08SB0658-B	4550 (24)	4820 (6)	5180 (1)	6330 (34)	6080 (9)	6640 (3)	4450 (45)	6180 (20)	5390 (13)
1716	WINCAL 09196	4360 (30)	4990 (2)	-	6090 (40)	5520 (18)	-	5700 (36)	6050 (21)	-
1723	LG ATOMO	4850 (10)	5410 (1)	-	7370 (1)	6730 (1)	-	7180 (4)	7740 (1)	-
1726	LG 08SB0738	-	-	-	-	-	-	-	-	-
1727	LG 08SB0008-B	-	-	-	-	-	-	-	-	-
1732	WWW BR2308W	4830 (12)	4880 (3)	-	7060 (4)	6070 (10)	-	6290 (27)	7070 (7)	-
1740	UC 12210/10	4070 (38)	-	-	6410 (32)	-	-	6580 (17)	-	-
1741	UC 12010/20	4740 (15)	-	-	6520 (26)	-	-	4830 (44)	-	-
1742	UC 12010/25	4500 (26)	-	-	6570 (25)	-	-	6370 (24)	-	-
1743	UC 12013/33	4590 (22)	-	-	6470 (27)	-	-	6600 (16)	-	-
1744	UC 12013/34	4850 (10)	-	-	5340 (43)	-	-	5080 (41)	-	-
1745	UC 12014/35	5240 (2)	-	-	6900 (9)	-	-	6840 (11)	-	-
1746	APB 770229	-	-	-	-	-	-	6980 (8)	-	-
1747	APB 430701	-	-	-	-	-	-	5000 (43)	-	-
1748	WB SJ909-368	4640 (20)	-	-	6610 (22)	-	-	7100 (6)	-	-
1749	WB DA907-047	4720 (17)	-	-	6800 (12)	-	-	7360 (1)	-	-
1750	WB DA908-306	5110 (4)	-	-	7010 (5)	-	-	6660 (15)	-	-
1751	WB YU909-005	4250 (33)	-	-	6640 (20)	-	-	6580 (17)	-	-
1762	WWW CABR3477W	4570 (23)	-	-	6440 (29)	-	-	5020 (42)	-	-
1763	WWW CABR3439	3280 (42)	-	-	6090 (40)	-	-	6780 (13)	-	-
1764	WWW IDCHBR1971B	3600 (41)	-	-	6100 (39)	-	-	6080 (32)	-	-
TRITICALE										
3097	TRICAL 105	5010 (5)	-	-	6860 (4)	-	-	6710 (2)	-	-
3156	TRICAL 118	5920 (2)	-	-	6950 (2)	-	-	5800 (5)	-	-
3168	CAMELOT	5420 (4)	-	-	6640 (5)	-	-	6640 (3)	-	-
3169	SY 158T	5510 (3)	-	-	6950 (2)	-	-	6610 (4)	-	-
3170	SY 115T	5960 (1)	-	-	7040 (1)	-	-	6890 (1)	-	-
MEAN		4540	4730	4620	6560	5920	6170	6230	6790	5970
CV		9.8	10.7	12.5	7.0	8.3	8.6	5.6	4.8	7.7
LSD (.05)		360	290	270	450	310	260	480	320	370

Numbers in parentheses indicate relative rank.

If a variety was not grown (or there was no data for it) in every location of a region, no data is reported here to preserve accurate statistics.

Individual results are available in the single location summaries.

Sacramento Valley locations reported: Davis 2011-13, Colusa 2011-13, SJ Delta 2011-13

San Joaquin Valley locations reported: Fresno 2011-13, Kern 2011-13, Kings 2011-12

Imperial Valley locations reported: Holtville 2011-13

2013 Oregon Spring Elite Yield Trial (OSEYT) Entry List

Entry	Name	Type	Source	Grown At
1	Kelse	HRS	WSU	Lassen and Tulelake
2	Glee (WA 8074)	HRS	WSU	Lassen and Tulelake
3	WA 8166	HRS	WSU	Lassen and Tulelake
4	Bullseye	HRS	AgriPro	Lassen and Tulelake
5	Cabernet	HRS	AgriPro	Lassen and Tulelake
6	SY Steelhead (97S621-05)	HRS	AgriPro	Lassen and Tulelake
7	Buck Pronto	HRS	Limagrain	Lassen and Tulelake
8	08SB0658-B	HRS	Limagrain	Lassen and Tulelake
9	LNR10-0551	HRS	Limagrain	Lassen and Tulelake
10	11SB0096	HRS	Limagrain	Lassen and Tulelake
11	WB 9879 CL+	HRS	Westbred	Lassen and Tulelake
12	WB 9518	HRS	Westbred	Lassen and Tulelake
13	Jefferson	HRS	UI	Lassen and Tulelake
14	IDO 862E	HRS	UI	Lassen and Tulelake
15	IDO 862T	HRS	UI	Lassen and Tulelake
16	Lassik	HRS	UC Davis	Lassen and Tulelake
17	UC 12010/13	HRS	UC Davis	Lassen and Tulelake
18	IDO694C	HWS	UI	Lassen and Tulelake
19	IDO1202S	HWS	UI	Lassen and Tulelake
20	DAYN	HWS	WSU	Lassen and Tulelake
21	Patwin 515	HWS	UC Davis	Lassen and Tulelake
22	UC 12010/30	HWS	UC Davis	Lassen and Tulelake
23	UC 12013/22	HWS	UC Davis	Lassen and Tulelake
24	UC 12014/15	HWS	UC Davis	Lassen and Tulelake
25	Alturas	SWS	UI	Lassen and Tulelake
26	UI Stone	SWS	UI	Lassen and Tulelake
27	IDO 852	SWS	UI	Lassen and Tulelake
28	IDO 851	SWS	UI	Lassen and Tulelake
29	IDO 854	SWS	UI	Lassen and Tulelake
30	WB 1035 CL+	SWS	Westbred	Lassen and Tulelake
31	WB 6341	SWS	Westbred	Lassen and Tulelake
32	WB 6121	SWS	Westbred	Lassen and Tulelake
33	Alpowa	SWS	WSU	Lassen and Tulelake
34	Louise	SWS	WSU	Lassen and Tulelake
35	JD	SWS-Club	WSU	Lassen and Tulelake
36	Diva	SWS	WSU	Lassen and Tulelake
37	Whit	SWS	WSU	Lassen and Tulelake
38	Babe	SWS	WSU	Lassen and Tulelake
39	WA 8162	SWS	WSU	Lassen and Tulelake
40	WA 8189	SWS	WSU	Lassen and Tulelake
41	Excede	HRS	AgService Seeds	Lassen and Tulelake

41 ENTRIES

TYPE: HRS = Hard Red Spring; HWS = Hard White Spring; SWS = Soft White Spring

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

2 locations: UC IREC (Tulelake), Lassen (Susanville)

2013 Lassen Oregon Spring Elite Yield Trial (OSEYT)

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000	Plant Ht (in)	Protein %
				Kernel Wt (g)		
1	Kelse	2930 (31)	59.7	38.8	32	9.60
2	Glee (WA 8074)	2980 (29)	61.9	41.2	31	9.00
3	WA 8166	2880 (34)	61.7	37.0	30	9.33
4	Bullseye	3450 (12)	62.4	36.2	28	7.98
5	Cabernet	3270 (23)	60.9	35.6	25	9.01
6	SY Steelhead (97S6)	2860 (35)	60.3	28.0	32	10.70
7	Buck Pronto	3490 (11)	59.8	33.4	33	10.49
8	08SB0658-B	3380 (15)	60.3	31.5	28	7.97
9	LNR10-0551	2820 (38)	59.7	31.4	30	9.30
10	11SB0096	3210 (24)	57.4	32.5	29	10.92
11	WB 9879 CL+	2920 (33)	60.7	30.5	29	9.06
12	WB 9518	2930 (32)	61.4	37.4	26	9.20
13	Jefferson	3360 (16)	60.0	33.4	30	9.71
14	IDO 862E	2660 (39)	61.1	36.4	28	9.86
15	IDO 862T	3080 (27)	62.0	35.8	30	9.22
16	Lassik	3270 (22)	59.6	32.9	29	8.95
17	UC 12010/13	3050 (28)	58.8	33.1	30	10.62
18	IDO694C	3640 (6)	61.9	39.3	27	8.47
19	IDO1202S	3310 (20)	61.4	37.9	33	10.06
20	DAYN	3350 (18)	59.4	32.7	29	10.01
21	Patwin 515	3150 (25)	58.3	31.1	24	9.05
22	UC 12010/30	2640 (40)	58.7	35.0	27	10.82
23	UC 12013/22	3440 (13)	59.3	36.6	29	8.16
24	UC 12014/15	2840 (36)	59.6	38.4	28	9.21
25	Alturas	3270 (21)	57.7	32.6	31	7.36
26	UI Stone	3840 (2)	59.6	36.4	32	7.57
27	IDO 852	3800 (3)	59.3	32.3	34	8.53
28	IDO 851	3440 (14)	57.2	30.6	30	8.98
29	IDO 854	3610 (7)	57.9	33.7	33	8.88
30	WB 1035 CL+	2960 (30)	59.3	34.4	29	9.58
31	WB 6341	4050 (1)	57.9	29.2	29	7.76
32	WB 6121	3340 (19)	58.8	34.6	29	10.42
33	Alpowa	3130 (26)	59.3	32.2	32	9.47
34	Louise	3560 (8)	57.6	36.5	35	9.37
35	JD	3530 (9)	60.1	33.4	31	9.20
36	Diva	3360 (17)	59.9	44.4	35	7.81
37	Whit	3680 (5)	59.4	38.3	32	8.02
38	Babe	2830 (37)	59.4	36.3	31	8.24
39	WA 8162	3530 (10)	58.5	34.6	29	9.12
40	WA 8189	3690 (4)	59.6	34.5	32	7.59
MEAN		3260	59.5	34.4	30	9.12
CV		11.3	1.5	6.6	5.5	
LSD (.05)		600	1.5	3.7	3	

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2013 Tulelake Oregon Spring Elite Yield Trial (OSEYT)

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To Heading From (3/1)	Lodging Harvest	Protein %
				Kernel Wt (g)	Plant Ht (in)			
1	Kelse	6790 (28)	62.3	44.3	37	117	1.3	12.51
2	Glee (WA 8074)	5870 (37)	61.1	37.9	34	115	7.7	11.01
3	WA 8166	5640 (38)	62.6	38.8	35	116	6.3	12.06
4	Bullseye	7090 (26)	62.5	36.5	34	117	7.7	11.86
5	Cabernet	7350 (21)	62.6	36.4	32	115	1.7	10.80
6	SY Steelhead (97S6)	6420 (34)	62.9	30.5	40	118	5.7	13.61
7	Buck Pronto	6490 (33)	61.7	37.0	38	117	5.3	11.87
8	08SB0658-B	8070 (6)	61.0	32.6	30	117	5.7	10.45
9	LNR10-0551	7800 (11)	62.9	36.1	37	118	1.7	10.16
10	11SB0096	7920 (9)	62.0	39.7	34	117	1.3	11.26
11	WB 9879 CL+	6710 (31)	61.0	31.3	36	116	5.3	12.75
12	WB 9518	8140 (5)	62.9	40.3	33	115	1.7	12.06
13	Jefferson	7170 (25)	62.2	38.8	38	115	5.3	12.14
14	IDO 862E	7820 (10)	62.9	39.6	36	113	3.3	11.54
15	IDO 862T	7210 (24)	62.9	39.1	37	115	3.7	11.57
16	Lassik	6720 (30)	60.7	28.9	31	118	1.0	11.06
17	UC 12010/13	7970 (7)	61.9	36.0	34	115	1.3	11.58
18	IDO694C	7750 (13)	63.3	39.5	32	112	2.7	10.44
19	IDO1202S	7750 (12)	62.6	46.9	40	118	6.0	12.50
20	DAYN	8660 (1)	63.0	39.8	37	115	4.0	10.51
21	Patwin 515	7590 (18)	60.2	33.8	27	117	1.3	11.06
22	UC 12010/30	6690 (32)	62.3	38.3	29	112	1.7	10.89
23	UC 12013/22	8200 (3)	60.9	38.9	34	116	2.0	10.97
24	UC 12014/15	6350 (35)	61.1	36.4	30	112	1.3	10.72
25	Alturas	7070 (27)	61.2	35.2	38	115	6.0	9.37
26	UI Stone	7340 (23)	61.5	38.0	35	115	6.3	9.62
27	IDO 852	8280 (2)	62.1	35.7	38	115	5.7	9.57
28	IDO 851	7340 (22)	61.3	35.5	36	116	6.0	9.20
29	IDO 854	7710 (15)	61.9	42.1	41	118	4.7	10.42
30	WB 1035 CL+	7670 (16)	61.7	40.5	38	115	4.0	10.53
31	WB 6341	7660 (17)	60.4	31.3	37	116	7.0	9.62
32	WB 6121	7530 (19)	62.6	39.1	35	114	4.7	10.10
33	Alpowa	8180 (4)	62.3	38.5	38	120	6.0	10.33
34	Louise	6150 (36)	59.5	43.4	38	118	7.3	10.87
35	JD	5430 (39)	61.8	35.8	36	120	7.7	11.06
36	Diva	4950 (40)	59.2	40.2	34	117	7.3	10.49
37	Whit	6730 (29)	60.6	40.8	37	116	6.0	11.22
38	Babe	7950 (8)	62.0	40.2	36	117	7.0	11.16
39	WA 8162	7470 (20)	60.7	38.9	38	118	6.3	10.57
40	WA 8189	7740 (14)	62.3	38.2	35	118	6.3	10.56
MEAN		7230	61.8	37.8	35	116	4.6	11.00
CV		9	0.8	3.7	4.1	0.9	20.6	
LSD (.05)		1050	1.1	2.8	2	2	1.5	

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.

Protein is expressed at 12% moisture.

2011-13 Intermountain Spring Wheat (OSEYT) Over Year Yield Summary (lbs/acre)

Entry	Name	2013 (2 loc)	2012-13 (5 loc/yr)	2011-13 (8 loc/yr)
1	Kelse	4860 (31)	4790 (14)	5290 (10)
2	Glee (WA 8074)	4430 (38)	4990 (12)	5190 (12)
3	WA 8166	4260 (39)	-	-
4	Bullseye	5270 (23)	5540 (4)	5620 (5)
5	Cabernet	5310 (21)	5550 (3)	5690 (4)
6	SY Steelhead (97S621-05)	4640 (35)	5050 (11)	-
7	Buck Pronto	4990 (30)	4960 (13)	5390 (9)
8	08SB0658-B	5730 (5)	-	-
9	LNR10-0551	5310 (21)	-	-
10	11SB0096	5570 (11)	-	-
11	WB 9879 CL+	4820 (33)	-	-
12	WB 9518	5540 (12)	-	-
13	Jefferson	5270 (23)	5190 (8)	5480 (7)
14	IDO 862E	5240 (25)	-	-
15	IDO 862T	5150 (28)	-	-
16	Lassik	5000 (29)	5120 (10)	5460 (8)
17	UC 12010/13	5510 (14)	-	-
18	IDO694C	5700 (7)	-	-
19	IDO1202S	5530 (13)	-	-
20	DAYN	6010 (2)	-	-
21	Patwin 515	5370 (19)	5180 (9)	5290 (10)
22	UC 12010/30	4670 (34)	-	-
23	UC 12013/22	5820 (4)	-	-
24	UC 12014/15	4600 (36)	-	-
25	Alturas	5170 (27)	5450 (6)	5880 (3)
26	UI Stone	5590 (10)	-	-
27	IDO 852	6040 (1)	-	-
28	IDO 851	5390 (17)	-	-
29	IDO 854	5660 (8)	-	-
30	WB 1035 CL+	5320 (20)	5540 (4)	-
31	WB 6341	5860 (3)	-	-
32	WB 6121	5440 (16)	-	-
33	Alpowa	5660 (8)	5580 (2)	5940 (2)
34	Louise	4860 (31)	4690 (15)	5140 (13)
35	JD	4480 (37)	4690 (15)	4940 (14)
36	Diva	4160 (40)	4400 (17)	4870 (15)
37	Whit	5210 (26)	5420 (7)	5590 (6)
38	Babe	5390 (17)	5740 (1)	6180 (1)
39	WA 8162	5500 (15)	-	-
40	WA 8189	5720 (6)	-	-
MEAN		5250	5180	5460

Numbers in parentheses indicate relative rank.

If a variety was not grown (or there was no data for it) in every location of a region (or year range), no data is reported here to preserve accurate statistics.

Individual results are available in the single location summaries.

2013 Intermountain Winter Wheat Trial Entry List
 (2013 Oregon Winter Elite Yield Trial - OWEYT)

Entry Name	Type	Source	Grown At
1 Stephens	SWW	FSD	Siskiyou and Tulelake
2 Tubbs-06	SWW	FSD	Siskiyou and Tulelake
3 Goetze	SWW	FSD	Siskiyou and Tulelake
4 Skiles	SWW	FSD	Siskiyou and Tulelake
5 Mary	SWW	FSD	Siskiyou and Tulelake
6 Kaseberg	SWW	FSD	Siskiyou and Tulelake
7 Ladd	SWW	FSD	Siskiyou and Tulelake
8 Bruneau	SWW	U of I	Siskiyou and Tulelake
9 02-10606A	SWW	U of I	Siskiyou and Tulelake
10 99-06202A	SWW	U of I	Siskiyou and Tulelake
11 03-29902A	SWW	U of I	Siskiyou and Tulelake
12 IDO 1108	SWW	U of I	Siskiyou and Tulelake
13 LCS Artdeco	SWW	LCS	Siskiyou and Tulelake
14 LWW10-1018	SWW	LCS	Siskiyou and Tulelake
15 LWW04-4009	SWW	LCS	Siskiyou and Tulelake
16 WA 8151	SWW	WSU	Siskiyou and Tulelake
17 WA 8153	SWW	WSU	Siskiyou and Tulelake
18 YS 221	SWW	Yieldstar	Siskiyou and Tulelake
19 YS 461	SWW	Yieldstar	Siskiyou and Tulelake
20 YS 434	SWW	Yieldstar	Siskiyou and Tulelake
21 Trifecta	SWW	WB	Siskiyou and Tulelake
22 WB Junction	SWW	WB	Siskiyou and Tulelake
23 Exp 427 - Stephens like	SWW	WB	Siskiyou and Tulelake
24 Exp 458	SWW	WB	Siskiyou and Tulelake
25 Legion	SWW	Syngenta	Siskiyou and Tulelake
26 SY 107	SWW	Syngenta	Siskiyou and Tulelake
27 AP Badger	SWW	Syngenta	Siskiyou and Tulelake
28 SY Ovation	SWW	Syngenta	Siskiyou and Tulelake
29 ORCF-101R	SWW	FSD	Siskiyou and Tulelake
30 ORCF-102	SWW	FSD	Siskiyou and Tulelake
31 ORCF-103	SWW	FSD	Siskiyou and Tulelake
32 ORI2101840 - 2 gene	SWW	CEFF	Siskiyou and Tulelake
33 ORI2101841 - 2 gene	SWW	CEFF	Siskiyou and Tulelake
34 WA 8143 - 2gene Elatan Type	SWW	WSU	Siskiyou and Tulelake
35 AP 700 CL	SWW	Syngenta	Siskiyou and Tulelake
36 WB 1070 CL	SWW	WB	Siskiyou and Tulelake
37 Cara	Club	FSD	Siskiyou and Tulelake
38 ARS 010669-2C	Club	ARS	Siskiyou and Tulelake
39 OR2071071	SWW	DS	Siskiyou and Tulelake
40 OR2080641	SWW	DS	Siskiyou and Tulelake
41 OR08047P94	SWW	DS	Siskiyou and Tulelake
42 OR2080924	SWW	DS	Siskiyou and Tulelake
43 OR2080637	SWW	Adv 1 -13	Siskiyou and Tulelake
44 OR2080926	SWW	Adv 1 -19	Siskiyou and Tulelake
45 OR2090473	SWW	Adv 1 - 28	Siskiyou and Tulelake
46 GALGALOS	SWW		Siskiyou and Tulelake
47 NORWEST 553	HRW	OSU	Siskiyou and Tulelake
48 BOUNDARY	HRW	IDAHO	Siskiyou and Tulelake
49 YAMHILL	SWW		Siskiyou and Tulelake
50 WHETSTONE	HRW	Syngenta	Siskiyou and Tulelake
51 ARROWHEAD	HRW	WB	Siskiyou and Tulelake
52 RIMROCK	HRW	WB	Siskiyou and Tulelake
53 KELDIN	HRW	WB	Siskiyou and Tulelake
54 EXPRESSO	HRS	WB	Siskiyou and Tulelake

54 ENTRIES

TYPE: SWW = Soft White Winter; HRW = Hard Red Winter; HRS = Hard Red Spring

2 locations: UC IREC (Tulelake), Siskiyou

2013 Siskiyou Winter Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000	Plant Ht (in)	Protein
				Kernel Wt (g)		%
1	Stephens	4150 (33)	60.7	49.7	39	10.83
2	Tubbs-06	4900 (18)	60.0	44.6	43	10.39
3	Goetze	3540 (44)	60.9	41.6	37	10.40
4	Skiles	4010 (36)	60.8	42.9	36	11.22
5	Mary	3780 (38)	61.0	43.2	37	11.10
6	Kaseberg	4030 (35)	60.5	35.0	39	10.36
7	Ladd	3970 (37)	60.2	41.3	37	10.84
8	Bruneau	4560 (25)	61.2	36.9	41	11.11
9	02-10606A	3690 (41)	61.0	35.8	36	9.92
10	99-06202A	4440 (29)	61.6	39.9	39	9.87
11	03-29902A	5420 (7)	62.4	36.7	40	10.00
12	IDO 1108	5540 (5)	60.3	37.7	44	8.98
13	LCS Artdeco	3650 (42)	60.4	42.6	36	10.52
14	LWW10-1018	4560 (26)	57.9	40.1	38	9.85
15	LWW04-4009	4910 (17)	61.6	40.7	36	9.03
16	WA 8151	4680 (21)	61.0	41.3	40	10.30
17	WA 8153	5340 (8)	60.8	37.4	42	10.40
18	YS 221	6030 (2)	61.7	33.0	40	10.01
19	YS 461	4840 (19)	60.6	40.8	38	9.84
20	YS 434	5320 (9)	61.6	33.0	37	8.87
21	Trifecta	3700 (40)	61.4	39.9	37	11.13
22	WB Junction	4390 (30)	62.4	41.9	40	11.09
23	Exp 427 - Stephens	2800 (50)	61.4	44.8	37	12.54
24	Exp 458	3300 (46)	62.1	44.6	38	11.55
25	Legion	4760 (20)	59.3	42.9	41	10.86
26	SY 107	5130 (11)	61.7	47.7	40	9.23
27	AP Badger	4940 (15)	60.5	42.0	36	10.03
28	SY Ovation	4560 (27)	61.9	53.2	38	10.04
29	ORCF-101R	5110 (12)	60.7	39.5	38	10.75
30	ORCF-102	4610 (24)	61.1	43.1	42	9.69
31	ORCF-103	5050 (13)	60.0	36.6	38	9.96
32	ORI2101840 - 2 gen	4640 (23)	59.2	37.4	42	10.75
33	ORI2101841 - 2 gen	3710 (39)	59.1	34.0	38	11.47
34	WA 8143 - 2gene El	4950 (14)	59.7	38.1	42	9.74
35	AP 700 CL	4550 (28)	60.8	48.0	41	10.46
36	WB 1070 CL	1640 (52)	62.6	44.8	36	12.85
37	Cara	4310 (32)	58.2	29.3	38	11.02
38	ARS 010669-2C	3040 (47)	60.2	37.9	38	10.82
39	OR2071071	6410 (1)	59.6	39.4	38	9.18
40	OR2080641	5700 (4)	61.7	44.7	41	9.73
41	OR08047P94	5440 (6)	59.8	42.6	38	8.97
42	OR2080924	5210 (10)	59.3	47.8	38	9.83
43	OR2080637	4360 (31)	58.8	40.3	39	9.81
44	OR2080926	5910 (3)	59.2	40.8	42	8.79
45	OR2090473	4930 (16)	60.7	41.7	38	10.00
46	GALGALOS	1170 (53)	60.4	41.1	40	14.99
47	NORWEST 553	3580 (43)	62.4	37.2	35	11.55
48	BOUNDARY	4140 (34)	61.9	43.1	39	9.06
49	YAMHILL	4680 (22)	59.8	41.1	44	10.65
50	WHETSTONE	3480 (45)	63.6	35.9	40	11.50
51	ARROWHEAD	2790 (51)	63.2	40.3	42	12.42
52	RIMROCK	2880 (48)	62.1	49.2	40	11.57
53	KELDIN	2860 (49)	63.2	48.2	39	11.18
54	EXPRESSO	640 (54)	63.0	38.4	34	13.91
MEAN		4270	60.9	40.9	39	10.57
CV		15.6	0.9	3.7	5.5	
LSD (.05)		1080	1.1	3.0	3	

Protein is expressed at 12% moisture

Numbers in parentheses indicate relative rank in column.

2013 Tulelake Winter Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To Heading From (1/1)	Lodging Harvest	Protein %
				Kernel Wt (g)	Plant Ht (in)			
1	Stephens	8810 (17)	59.6	48.6	34	173	3.3	9.50
2	Tubbs-06	9120 (12)	59.5	43.7	39	173	2.3	8.75
3	Goetze	7510 (49)	58.8	39.1	35	171	1.3	9.59
4	Skiles	8310 (34)	61.0	45.5	35	173	1.0	9.10
5	Mary	9430 (3)	60.5	41.2	33	173	1.0	9.10
6	Kaseberg	8390 (30)	58.2	33.8	36	173	1.0	8.65
7	Ladd	8330 (32)	60.2	45.9	33	175	1.0	10.08
8	Bruneau	9070 (13)	59.8	38.7	40	174	2.7	8.03
9	02-10606A	9290 (7)	60.2	39.2	38	175	4.0	8.67
10	99-06202A	9280 (8)	59.5	42.9	38	174	1.7	9.58
11	03-29902A	8890 (16)	61.3	37.4	37	174	2.0	9.60
12	IDO 1108	9320 (5)	59.9	38.4	40	174	3.7	8.87
13	LCS Artdeco	8450 (29)	59.0	39.9	34	172	1.0	9.07
14	LWW10-1018	8180 (39)	58.7	45.4	36	180	1.0	9.17
15	LWW04-4009	8550 (26)	61.3	46.8	36	176	4.3	8.89
16	WA 8151	9230 (9)	60.1	40.7	40	174	1.0	9.15
17	WA 8153	8220 (37)	60.8	40.5	38	174	1.3	9.58
18	YS 221	10180 (1)	62.5	37.4	38	175	2.3	8.75
19	YS 461	8610 (23)	59.5	41.8	36	174	1.0	8.97
20	YS 434	9850 (2)	62.3	37.0	38	175	1.7	8.29
21	Trifecta	8050 (42)	61.0	40.3	35	170	1.3	9.81
22	WB Junction	8500 (27)	59.9	37.9	36	168	5.7	9.35
23	Exp 427 - Stephens	8620 (21)	60.4	44.8	33	171	1.0	9.79
24	Exp 458	7570 (47)	60.2	41.5	35	169	1.0	10.12
25	Legion	8560 (25)	58.7	46.3	40	171	7.3	9.10
26	SY 107	8610 (22)	60.6	45.0	34	174	3.3	9.45
27	AP Badger	8320 (33)	58.3	42.8	34	174	1.0	8.91
28	SY Ovation	9020 (15)	60.6	50.7	35	173	1.3	8.99
29	ORCF-101R	8000 (43)	60.4	40.8	35	174	1.0	10.00
30	ORCF-102	8300 (35)	59.6	41.6	38	174	1.0	9.80
31	ORCF-103	8630 (19)	58.8	40.6	39	176	7.3	9.27
32	ORI2101840 - 2 gen	8050 (41)	59.7	41.6	38	175	1.0	9.24
33	ORI2101841 - 2 gen	8080 (40)	60.5	38.3	37	175	1.0	9.56
34	WA 8143 - 2gene El	8580 (24)	59.5	43.9	42	176	7.3	8.74
35	AP 700 CL	9130 (11)	60.0	47.8	39	174	1.7	9.40
36	WB 1070 CL	7060 (50)	61.2	43.0	34	166	1.0	10.38
37	Cara	8200 (38)	58.2	34.4	38	176	3.7	10.08
38	ARS 010669-2C	6560 (52)	57.7	34.3	37	173	7.0	10.09
39	OR2071071	8380 (31)	58.7	41.9	34	174	1.0	8.26
40	OR2080641	9420 (4)	59.7	42.5	37	173	1.0	9.09
41	OR08047P94	9290 (6)	58.6	39.4	35	173	2.3	9.60
42	OR2080924	8630 (20)	58.1	46.7	37	176	1.0	9.50
43	OR2080637	8660 (18)	61.1	43.6	34	178	1.0	9.68
44	OR2080926	9200 (10)	57.1	42.1	37	173	1.0	8.69
45	OR2090473	8260 (36)	58.2	37.9	34	172	1.0	9.55
46	GALGALOS	3340 (54)	60.6	43.0	38	168	7.7	12.97
47	NORWEST 553	7540 (48)	61.2	39.7	31	173	1.0	10.39
48	BOUNDARY	7730 (46)	61.2	42.3	39	174	2.0	9.44
49	YAMHILL	6760 (51)	60.0	42.9	41	179	2.3	9.08
50	WHETSTONE	7920 (45)	61.8	34.5	39	166	3.0	9.46
51	ARROWHEAD	9040 (14)	62.4	38.9	39	170	3.0	9.63
52	RIMROCK	7990 (44)	61.2	47.3	38	172	4.0	9.99
53	KELDIN	8470 (28)	62.4	42.6	39	172	2.0	10.23
54	EXPRESSO	3440 (53)	62.0	40.3	32	172	1.0	14.54
MEAN		8310	60.1	41.5	37	173	2.4	9.51
CV		5	0.7	3.8	5.4	0.9	44.3	
LSD (.05)		680	0.9	3.2	3	2	1.7	

Rating scale for lodging (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%.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2011-13 Intermountain Winter Wheat (OWEYT) Over Year Yield Summary (lbs/acre)

Entry	Name	2013 (2 loc)	2012-13 (4 loc/yr)	2011-13 (5 loc/yr)
1	Stephens	6480 (29)	6390 (14)	6810 (9)
2	Tubbs-06	7010 (9)	6700 (9)	7160 (6)
3	Goetze	5530 (48)	5830 (20)	6270 (14)
4	Skiles	6160 (36)	6300 (18)	6630 (11)
5	Mary	6610 (24)	6950 (5)	-
6	Kaseberg	6210 (35)	-	-
7	Ladd	6150 (37)	-	-
8	Bruneau	6820 (16)	6800 (6)	7320 (4)
9	02-10606A	6490 (28)	-	-
10	99-06202A	6860 (13)	-	-
11	03-29902A	7160 (8)	-	-
12	IDO 1108	7430 (5)	-	-
13	LCS Artdeco	6050 (38)	-	-
14	LWW10-1018	6370 (32)	-	-
15	LWW04-4009	6730 (20)	6400 (13)	-
16	WA 8151	6960 (10)	-	-
17	WA 8153	6780 (18)	-	-
18	YS 221	8110 (1)	7630 (1)	-
19	YS 461	6730 (20)	-	-
20	YS 434	7590 (2)	-	-
21	Trifecta	5880 (42)	-	-
22	WB Junction	6450 (31)	6640 (12)	-
23	Exp 427 - Stephens like	5710 (44)	-	-
24	Exp 458	5440 (49)	-	-
25	Legion	6660 (22)	6680 (10)	7260 (5)
26	SY 107	6870 (12)	-	-
27	AP Badger	6630 (23)	6710 (8)	7080 (7)
28	SY Ovation	6790 (17)	6730 (7)	-
29	ORCF-101R	6560 (26)	6390 (14)	6750 (10)
30	ORCF-102	6460 (30)	6200 (19)	6620 (12)
31	ORCF-103	6840 (14)	6370 (16)	6850 (8)
32	ORI2101840 - 2 gene	6350 (33)	-	-
33	ORI2101841 - 2 gene	5900 (41)	-	-
34	WA 8143 - 2gene Elatan Type	6770 (19)	-	-
35	AP 700 CL	6840 (14)	-	-
36	WB 1070 CL	4350 (52)	5450 (21)	-
37	Cara	6260 (34)	6310 (17)	6610 (13)
38	ARS 010669-2C	4800 (51)	-	-
39	OR2071071	7400 (6)	7000 (4)	7370 (3)
40	OR2080641	7560 (3)	7160 (2)	7600 (1)
41	OR08047P94	7370 (7)	7150 (3)	7500 (2)
42	OR2080924	6920 (11)	6650 (11)	-
43	OR2080637	6510 (27)	-	-
44	OR2080926	7560 (3)	-	-
45	OR2090473	6600 (25)	-	-
46	GALGALOS	2260 (53)	-	-
47	NORWEST 553	5560 (47)	-	-
48	BOUNDARY	5940 (39)	-	-
49	YAMHILL	5720 (43)	-	-
50	WHETSTONE	5700 (45)	-	-
51	ARROWHEAD	5920 (40)	-	-
52	RIMROCK	5440 (49)	-	-
53	KELDIN	5670 (46)	-	-
54	EXPRESSO	2040 (54)	-	-
MEAN		6300	6590	6990

Numbers in parentheses indicate relative rank.

If a variety was not grown (or there was no data for it) in every location of a region (or year range), no data is reported here to preserve accurate statistics.

Individual results are available in the single location summaries.

2013 UC Regional Durum Wheat Entry List

Entry	Name	Parentage	Source	Grown At
<u>CULTIVARS</u>				
878	DURAKING	MSFRS SELECTION	WWW	ALL
951	KRONOS		APB	ALL
1166	CROWN	MSFRS SELECTION	WWW	ALL
1210	PLATINUM	MSFRS SELECTION	WWW	ALL
1211	TOPPER	MSFRS SELECTION	WWW	ALL
1215	ORITA	PH888-118-5/WPB 881	WESTBRED	IMPERIAL
1375	DESERT KING	INTER-11	UC DAVIS	ALL
1429	FORTISSIMO	VIC/LDS//ALDURA/881	SYNGENTA	ALL
1431	VOLANTE	ALDURA/881//CND	SYNGENTA	ALL
1473	Q-MAX	MSFRS SELECTION	WWW	ALL
1479	HAVASU	Kofa//Mohawk//Express/Karl	WESTBRED	IMPERIAL
1484	WESTMORE		APB	ALL
1582	MAESTRALE		ALLSTAR	ALL
1583	SARAGOLLA		ALLSTAR	ALL
1585	TIPAI	Kofa/UC1113//UC1113	UC DAVIS	ALL
1607	WB-MEAD	KOFA/ORITA//DURAKING	WESTBRED	IMPERIAL
1627	DESERT KING-HP	Desert King Gpc BC5	UC DAVIS	ALL
1654	WB-MOHAVE		WESTBRED	IMPERIAL
<u>ADVANCED LINES</u>				
1640	APB D1-2	D94-1 x MSFRS Population Az	APB	ALL
1677	RS001		RUBIN	IMPERIAL
1678	RS002		RUBIN	IMPERIAL
1690	UC 1690	WWWD6523/UC1308	UC DAVIS	ALL
1695	WWW NDPRD3D13	MSFRS SELECTION	WWW	ALL
1696	WWW UT07412	MSFRS SELECTION	WWW	ALL
1697	LG KIKO NICK		LIMAGRAIN	ALL
1698	LG ATHORIS		LIMAGRAIN	ALL
1709	RS003		RUBIN	IMPERIAL
1717	UC 1717	MOHAWK/UC1375	UC DAVIS	ALL
1720	LG IMHOTEP		LIMAGRAIN	FRESNO, IMPERIAL
1721	LG ALIROR		LIMAGRAIN	ALL
1733	WWW D2517	MSFRS SELECTION	WWW	ALL
1739	WWW CANBELL013		WWW	ALL
1752	APB D6-419		APB	ALL
1753	APB D7-12		APB	ALL
1754	APB KRLCD		APB	ALL
1755	UC 12210/8	CROWN/UC1375	UC DAVIS	ALL
1756	UC 12210/9	UC1375/KOFA-HP	UC DAVIS	ALL
1757	UC 12213/43	KOFA/UC1113//UC1113/3/KOFA Gpc	UC DAVIS	ALL
1758	UC 12216/5	KOFA//UC1113/PLATINUM	UC DAVIS	ALL
1759	WB YU807-86		WESTBRED	IMPERIAL
1765	WWW AUD31370		WWW	ALL

41 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

2013 Davis Durum Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Lodging Harvest	BYDV 5/1	Black Point	Protein %
				Kernel Wt (g)	Plant Ht (in)	Heading From (3/1)	Maturity				
<u>CULTIVARS</u>											
878	DURAKING	4300 (32)	62.1	48.2	30	46	81	1.8	4.3	1.5	9.63
951	KRONOS	7010 (17)	61.9	54.9	29	37	80	5.8	1.8	2.0	10.98
1166	CROWN	7180 (7)	61.3	53.0	33	44	79	1.8	1.0	1.5	10.74
1210	PLATINUM	7110 (10)	61.7	52.2	33	43	81	1.3	1.3	2.0	10.58
1211	TOPPER	7040 (15)	63.6	48.6	34	41	80	2.3	1.3	2.5	10.49
1375	DESERT KING	7080 (12)	64.9	31.3	31	41	80	2.0	1.0	1.5	9.67
1429	FORTISSIMO	7370 (4)	63.1	48.0	31	45	80	1.0	1.0	1.0	10.32
1431	VOLANTE	7070 (13)	63.2	55.2	30	43	78	1.3	1.0	1.0	8.73
1473	Q-MAX	6330 (26)	63.4	52.8	32	44	79	1.0	1.0	1.0	10.01
1484	WESTMORE	6840 (22)	63.5	43.9	32	40	78	4.8	1.3	2.0	10.93
1582	MAESTRALE	6200 (29)	63.7	50.6	33	40	77	3.3	1.5	1.5	8.75
1583	SARAGOLLA	7120 (9)	63.5	52.6	30	41	79	1.8	1.3	1.5	9.68
1585	TIPAI	6930 (20)	64.0	58.3	32	42	79	3.8	1.0	1.0	9.75
1627	DESERT KING-HP	6150 (30)	62.8	47.7	31	40	75	1.8	1.3	1.0	11.83
<u>ADVANCED LINES</u>											
1640	APB D1-2	7470 (3)	62.4	56.6	32	41	80	2.5	1.0	1.5	11.02
1690	UC 1690	7010 (18)	63.6	60.4	31	45	80	1.5	1.8	1.0	10.30
1695	WWW NDPRD3D13	7020 (16)	62.7	50.7	32	46	79	1.8	1.0	1.0	9.42
1696	WWW UT07412	6510 (24)	62.9	60.7	32	39	78	1.8	1.5	2.0	9.37
1697	LG KIKO NICK	7510 (2)	62.4	60.4	32	41	79	4.5	1.3	2.0	10.63
1698	LG ATHORIS	7050 (14)	63.4	50.5	34	44	81	4.3	1.5	1.5	10.27
1717	UC 1717	6280 (27)	64.5	54.8	31	41	77	3.8	1.0	1.0	10.59
1721	LG ALIROR	7330 (5)	64.1	58.1	33	44	81	2.5	1.0	2.0	9.83
1733	WWW D2517	7560 (1)	63.2	46.7	29	43	82	2.3	1.0	2.5	9.59
1739	WWW CANBELL013	6260 (28)	62.3	53.3	32	45	81	2.0	1.0	1.0	9.51
1752	APB D6-419	6840 (21)	63.1	53.9	33	41	78	3.8	1.3	1.0	10.62
1753	APB D7-12	6990 (19)	61.5	48.8	34	51	90	1.3	1.5	1.0	9.45
1754	APB KRLCD	6120 (31)	62.3	58.7	32	37	78	4.3	2.0	2.5	10.79
1755	UC 12210/8	7260 (6)	63.7	53.7	35	43	80	2.3	1.3	2.0	10.41
1756	UC 12210/9	7170 (8)	64.1	52.4	32	41	80	2.5	1.3	1.5	11.07
1757	UC 12213/43	6480 (25)	63.0	48.7	34	41	78	4.5	1.3	1.0	12.21
1758	UC 12216/5	6590 (23)	62.5	59.7	30	41	79	3.5	1.8	1.5	11.97
1765	WWW AUD31370	7090 (11)	63.2	52.4	32	45	81	1.0	1.3	1.0	10.55
MEAN		6820	63.0	52.4	32	42	79	2.6	1.4	1.5	10.30
CV		7.9	0.7	12.8	7	4	2.2	51.6	37.8	35.9	
LSD (.05)		760	0.9	ns	3	2	2	1.9	0.7	ns	

Rating scale for 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%.

BYDV, lodging, and black point ratings (see scale above) were based on percentage of plants (or seeds) showing symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture

2013 Fresno Durum Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Lodging Harvest	BYDV 4/23	Protein %
				Kernel Wt (g)	Plant Ht (in)			
<u>CULTIVARS</u>								
878	DURAKING	4910 (31)	62.9	48.6	34	1.0	2.5	13.01
951	KRONOS	5570 (23)	62.8	53.4	34	1.0	1.3	14.02
1166	CROWN	5950 (9)	62.1	49.9	38	1.0	1.5	13.28
1210	PLATINUM	5790 (17)	61.6	49.0	36	1.0	1.3	9.80
1211	TOPPER	6110 (3)	64.9	44.4	35	1.0	1.0	12.83
1375	DESERT KING	5380 (30)	63.0	46.3	32	1.0	1.0	14.29
1429	FORTISSIMO	5560 (24)	62.6	42.4	32	1.0	1.0	12.67
1431	VOLANTE	5840 (14)	64.1	50.4	30	1.0	1.0	10.08
1473	Q-MAX	5550 (25)	63.2	48.6	36	1.0	1.0	12.97
1484	WESTMORE	5630 (22)	62.4	41.7	34	1.3	1.0	15.17
1582	MAESTRALE	5670 (21)	63.9	44.8	35	1.3	1.0	12.31
1583	SARAGOLLA	5940 (10)	64.3	48.5	32	1.3	1.0	13.19
1585	TIPAI	5870 (12)	64.3	52.4	34	1.0	1.5	12.72
1627	DESERT KING-HP	4860 (33)	61.0	42.2	33	1.0	1.0	15.53
<u>ADVANCED LINES</u>								
1640	APB D1-2	6060 (4)	62.9	57.3	32	1.0	1.0	11.80
1690	UC 1690	6290 (2)	63.1	51.8	35	1.3	1.3	14.93
1695	WWW NDPRD3D13	6030 (6)	64.0	49.0	36	1.0	1.0	11.43
1696	WWW UT07412	5430 (28)	63.4	57.3	32	1.0	1.0	13.69
1697	LG KIKO NICK	5400 (29)	63.7	56.6	33	1.0	1.0	11.87
1698	LG ATHORIS	5680 (19)	63.8	51.9	36	1.0	1.3	11.03
1717	UC 1717	5860 (13)	62.8	47.7	34	1.0	1.0	14.80
1720	LG IMHOTEP	5670 (20)	64.5	48.6	37	1.0	1.0	12.22
1721	LG ALIROR	5800 (16)	64.9	58.5	37	1.0	1.0	10.69
1733	WWW D2517	5690 (18)	64.7	47.3	31	1.0	1.0	12.10
1739	WWW CANBELL013	5900 (11)	62.8	48.7	38	1.0	1.5	11.07
1752	APB D6-419	5500 (26)	63.2	51.5	38	1.0	1.0	15.04
1753	APB D7-12	6360 (1)	62.3	42.7	38	1.0	1.5	12.06
1754	APB KRLCD	5450 (27)	63.1	57.5	35	1.0	1.0	13.31
1755	UC 12210/8	5810 (15)	63.5	49.9	36	1.0	1.0	12.63
1756	UC 12210/9	5990 (7)	64.0	46.8	34	1.0	1.3	13.73
1757	UC 12213/43	4880 (32)	61.8	45.9	35	1.3	1.8	15.53
1758	UC 12216/5	6040 (5)	62.5	53.0	35	1.3	1.3	14.37
1765	WWW AUD31370	5950 (8)	63.4	50.8	34	1.0	1.3	14.02
MEAN		5710	63.3	49.5	34	1.0	1.2	12.98
CV		9.1	0.8	3.9	4	19.9	34.4	
LSD (.05)		730	1	3.9	3	ns	0.6	

Rating scale for 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%.

BYDV and lodging ratings (see scale above) were based on percentage of plants (or seeds) showing symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture

2013 Kern Durum Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Lodging		BYDV 5/6	Black Point	Fanthamon 5/6	Protein %
				Kernel Wt (g)	Plant Ht (in)	Soft Dough	Harvest				
CULTIVARS											
878	DURAKING	7250 (28)	62.6	44.8	37	1.0	1.3	2.5	1.5	1.0	10.15
951	KRONOS	7270 (27)	61.2	49.4	39	4.8	6.3	1.8	2.0	4.0	10.60
1166	CROWN	7960 (14)	58.9	45.2	41	1.8	3.5	1.3	2.5	2.3	11.35
1210	PLATINUM	7970 (13)	59.3	46.1	41	1.3	1.5	1.5	2.0	1.8	11.44
1211	TOPPER	9000 (1)	63.9	40.6	43	1.0	3.3	1.3	1.5	1.0	9.65
1375	DESERT KING	8850 (2)	62.9	48.0	39	1.0	2.0	1.5	2.5	1.0	11.39
1429	FORTISSIMO	7650 (23)	61.7	43.2	38	1.0	1.8	1.0	1.5	1.0	10.21
1431	VOLANTE	7910 (18)	62.3	47.2	36	1.0	1.0	1.8	2.0	1.8	10.43
1473	Q-MAX	8190 (12)	61.1	44.8	44	1.3	2.3	1.0	1.0	1.0	10.71
1484	WESTMORE	7850 (21)	61.3	35.2	38	3.5	6.5	1.3	1.0	1.0	11.52
1582	MAESTRALE	8500 (7)	63.0	42.5	42	3.3	5.3	1.3	1.5	1.0	10.73
1583	SARAGOLLA	8670 (3)	63.6	46.4	38	1.5	4.3	1.3	1.5	1.0	9.72
1585	TIPAI	7890 (19)	62.3	47.1	39	3.0	6.5	2.0	1.5	1.0	10.22
1627	DESERT KING-HP	7920 (16)	61.9	43.9	37	1.8	4.0	1.3	1.0	1.0	11.48
ADVANCED LINES											
1640	APB D1-2	8550 (6)	61.1	53.3	36	1.3	1.8	1.3	1.5	1.8	10.71
1690	UC 1690	8660 (4)	63.3	51.3	41	3.0	5.8	1.3	1.5	1.3	11.16
1695	WWW NDPRD3D13	7420 (25)	61.4	41.6	39	1.0	1.8	1.3	2.5	1.3	9.80
1696	WWW UT07412	7780 (22)	61.3	51.6	38	1.3	3.0	1.5	2.5	1.3	10.08
1697	LG KIKO NICK	8420 (9)	61.5	49.9	39	2.5	4.8	1.3	2.5	1.0	10.70
1698	LG ATHORIS	7920 (17)	62.6	47.5	39	1.0	1.8	2.0	2.0	1.3	8.75
1717	UC 1717	8420 (8)	63.5	48.3	40	3.3	6.0	1.0	1.5	1.0	10.60
1721	LG ALIROR	7480 (24)	64.2	53.8	39	1.3	5.8	1.0	2.0	1.0	10.13
1733	WWW D2517	6980 (31)	61.0	38.9	36	1.3	1.8	1.5	2.5	1.0	10.08
1739	WWW CANBELL013	7380 (26)	59.0	46.0	42	4.3	5.5	1.0	3.0	1.0	11.38
1752	APB D6-419	8320 (10)	62.4	50.3	43	2.0	4.0	2.0	2.0	1.5	10.83
1753	APB D7-12	7190 (29)	56.3	42.6	42	2.0	5.8	1.8	1.0	1.0	9.58
1754	APB KRLCD	7080 (30)	59.9	49.6	38	5.5	6.3	1.8	2.5	4.5	10.89
1755	UC 12210/8	8240 (11)	60.6	43.9	41	2.8	4.3	1.8	1.0	1.0	10.47
1756	UC 12210/9	8650 (5)	63.6	48.5	39	1.3	1.3	1.3	2.0	1.0	10.16
1757	UC 12213/43	6790 (32)	61.8	43.0	41	1.5	5.8	2.3	1.0	2.8	12.77
1758	UC 12216/5	7870 (20)	61.2	49.8	40	4.8	6.0	1.5	1.0	1.0	12.42
1765	WWW AUD31370	7940 (15)	61.2	42.3	38	2.8	6.0	1.8	1.0	1.0	10.89
MEAN		7940	61.6	46.1	39	2.2	3.9	1.5	1.8	1.4	10.66
CV		7.5	1.5	4.3	3.4	47.8	30.1	39.3	32.0	31.4	
LSD (.05)		840	1.9	4.1	2	1.5	1.7	0.8	1.1	0.62	

Rating scale for 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%.

BYDV, lodging, and black point ratings (see scale above) were based on percentage of plants (or seeds) showing symptoms.

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

2013 Imperial Durum Wheat

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Lodging Harvest	Protein %
				Kernel Wt (g)	Plant Ht (in)	Heading From (1/1)	Maturity		
<u>CULTIVARS</u>									
878	DURAKING	5130 (39)	59.3	42.8	30	79	118	1.0	13.89
951	KRONOS	7030 (2)	58.8	45.3	33	75	115	5.3	14.19
1166	CROWN	6360 (9)	54.8	44.1	34	78	117	1.5	14.15
1210	PLATINUM	5930 (27)	56.8	44.7	34	77	117	2.3	14.46
1211	TOPPER	6230 (16)	59.5	38.8	33	78	118	1.0	14.14
1215	ORITA	6060 (21)	55.8	42.2	33	79	117	1.5	15.17
1375	DESERT KING	6310 (12)	58.3	39.9	34	79	118	1.0	13.63
1429	FORTISSIMO	6020 (23)	57.3	35.3	33	78	117	1.8	14.12
1431	VOLANTE	5750 (32)	58.5	34.7	30	78	116	1.8	12.93
1473	Q-MAX	5270 (38)	54.8	31.8	35	78	116	1.3	13.90
1479	HAVASU	6040 (22)	61.0	40.0	33	76	115	5.0	14.12
1484	WESTMORE	5560 (37)	57.8	35.7	34	76	116	6.3	15.37
1582	MAESTRALE	4900 (40)	58.5	34.0	37	77	115	4.5	14.18
1583	SARAGOLLA	5790 (31)	60.0	37.8	34	77	117	4.3	13.54
1585	TIPAI	6250 (14)	60.0	45.6	36	78	117	4.5	13.84
1607	WB-MEAD	5650 (34)	56.8	32.7	33	79	117	1.3	14.87
1627	DESERT KING-HP	5590 (36)	55.8	35.2	33	79	116	1.8	15.42
1654	WB-MOHAVE	6090 (18)	59.5	42.5	34	76	116	4.3	14.45
<u>ADVANCED LINES</u>									
1640	APB D1-2	6730 (4)	58.5	48.2	32	76	115	3.5	13.87
1677	RS001	6320 (11)	59.5	45.2	36	78	117	4.3	13.40
1678	RS002	6250 (15)	59.8	43.6	35	78	117	4.8	13.37
1690	UC 1690	6620 (5)	58.3	40.7	34	78	116	3.5	14.70
1695	WWW NDPRD3D13	6170 (17)	58.5	34.4	32	78	117	2.8	13.57
1696	WWW UT07412	5720 (33)	59.0	47.2	32	75	115	4.5	14.37
1697	LG KIKO NICK	6080 (20)	58.5	41.4	33	78	116	4.3	14.09
1698	LG ATHORIS	5830 (29)	59.8	47.3	33	79	116	4.0	12.44
1709	RS003	6000 (24)	56.8	36.3	34	78	117	1.5	14.38
1717	UC 1717	6490 (6)	58.0	36.9	36	78	116	3.0	13.34
1720	LG IMHOTEP	5870 (28)	61.5	42.0	36	76	115	5.5	12.96
1721	LG ALIROR	7000 (3)	61.3	50.8	33	78	118	3.8	12.82
1733	WWW D2517	7260 (1)	59.8	36.6	33	76	118	4.0	12.80
1739	WWW CANBELL013	6450 (7)	56.3	40.1	35	78	118	4.0	14.60
1752	APB D6-419	6290 (13)	58.5	44.2	37	77	116	4.8	14.38
1753	APB D7-12	4630 (41)	53.8	36.1	36	84	120	1.3	13.89
1754	APB KRLCD	6090 (19)	58.3	47.4	34	75	116	6.0	14.29
1755	UC 12210/8	5960 (25)	58.3	42.6	37	77	116	4.0	13.59
1756	UC 12210/9	6360 (8)	57.8	39.0	32	79	117	1.0	14.08
1757	UC 12213/43	5610 (35)	57.5	41.7	36	78	115	3.8	16.56
1758	UC 12216/5	5800 (30)	58.0	45.1	37	77	115	5.8	14.70
1759	WB YU807-86	6330 (10)	60.5	43.9	32	75	115	3.8	14.39
1765	WWW AUD31370	5950 (26)	57.0	38.7	33	83	119	1.3	13.31
MEAN		6040	58.2	40.8	34	78	116	3.3	14.06
CV		6.4	2.3		4.9	0.9	1.1	19.4	
LSD (.05)		540	1.9		2	1	2	0.9	

Rating scale for lodging and black point were based on percentage of plants (or seeds) showing symptoms:

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.

2013 Durum Wheat Grain Protein Summary (%)

Entry	Name	Imperial Valley (1 loc)	Central Valley			
			Mean (3 loc)	UC Davis	Fresno	Kern
<u>CULTIVARS</u>						
878	DURAKING	13.89 (25)	10.93 (22)	9.63	13.01	10.15
951	KRONOS	14.19 (16)	11.87 (9)	10.98	14.02	10.60
1166	CROWN	14.15 (18)	11.79 (11)	10.74	13.28	11.35
1210	PLATINUM	14.46 (9)	10.61 (26)	10.58	9.80	11.44
1211	TOPPER	14.14 (19)	10.99 (21)	10.49	12.83	9.65
1215	ORITA	15.17 (4)		-	-	-
1375	DESERT KING	13.63 (29)	11.78 (12)	9.67	14.29	11.39
1429	FORTISSIMO	14.12 (20)	11.07 (18)	10.32	12.67	10.21
1431	VOLANTE	12.93 (38)	9.75 (33)	8.73	10.08	10.43
1473	Q-MAX	13.90 (24)	11.23 (15)	10.01	12.97	10.71
1479	HAVASU	14.12 (20)		-	-	-
1484	WESTMORE	15.37 (3)	12.54 (4)	10.93	15.17	11.52
1582	MAESTRALE	14.18 (17)	10.60 (27)	8.75	12.31	10.73
1583	SARAGOLLA	13.54 (32)	10.86 (24)	9.68	13.19	9.72
1585	TIPAI	13.84 (28)	10.90 (23)	9.75	12.72	10.22
1607	WB-MEAD	14.87 (5)		-	-	-
1627	DESERT KING-HP	15.42 (2)	12.95 (2)	11.83	15.53	11.48
1654	WB-MOHAVE	14.45 (10)		-	-	-
<u>ADVANCED LINES</u>						
1640	APB D1-2	13.87 (27)	11.18 (16)	11.02	11.80	10.71
1677	RS001	13.40 (33)		-	-	-
1678	RS002	13.37 (34)		-	-	-
1690	UC 1690	14.70 (6)	12.13 (7)	10.30	14.93	11.16
1695	WWW NDPRD3D13	13.57 (31)	10.22 (30)	9.42	11.43	9.80
1696	WWW UT07412	14.37 (14)	11.05 (20)	9.37	13.69	10.08
1697	LG KIKO NICK	14.09 (22)	11.07 (18)	10.63	11.87	10.70
1698	LG ATHORIS	12.44 (41)	10.02 (32)	10.27	11.03	8.75
1709	RS003	14.38 (12)		-	-	-
1717	UC 1717	13.34 (35)	12.00 (8)	10.59	14.80	10.60
1720	LG IMHOTEP	12.96 (37)	12.22 (5)	-	12.22	-
1721	LG ALIROR	12.82 (39)	10.22 (30)	9.83	10.69	10.13
1733	WWW D2517	12.80 (40)	10.59 (28)	9.59	12.10	10.08
1739	WWW CANBELL013	14.60 (8)	10.65 (25)	9.51	11.07	11.38
1752	APB D6-419	14.38 (12)	12.16 (6)	10.62	15.04	10.83
1753	APB D7-12	13.89 (25)	10.36 (29)	9.45	12.06	9.58
1754	APB KRLCD	14.29 (15)	11.66 (13)	10.79	13.31	10.89
1755	UC 12210/8	13.59 (30)	11.17 (17)	10.41	12.63	10.47
1756	UC 12210/9	14.08 (23)	11.65 (14)	11.07	13.73	10.16
1757	UC 12213/43	16.56 (1)	13.50 (1)	12.21	15.53	12.77
1758	UC 12216/5	14.70 (6)	12.92 (3)	11.97	14.37	12.42
1759	WB YU807-86	14.39 (11)		-	-	-
1765	WWW AUD31370	13.31 (36)	11.82 (10)	10.55	14.02	10.89
MEAN		14.06	11.35	10.3	12.98	10.66

Grain Protein % expressed at 12% moisture

Numbers in parentheses indicate relative rank in column.

2013 Fresno 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		Semo	Pro															
CULTIVARS																												
878	DURAKING	13.01	1.68	63.3	50.0	100	0.2	184.4	15.4	0.2	78.7	64.4	11.93	0.68	8	208.0	2.50	32.9	13	628	22.76	50.95	30.15	4.5	29.02	7.8	6.3	
951	KRONOS	14.02	1.55	63.4	55.9	99	0.1	195.0	50.0	0.1	79.7	64.1	12.79	0.82	16	196.9	1.70	37.7	15.3	522	25.06	50.85	37.41	7.5	29.54	8.0	6.6	
1166	CROWN	13.28	1.38	623.0	51.0	99	0.3	186.7	13.1	0.1	79.7	63.8	12.14	0.91	10	179.2	0.80	35.2	13.6	570	23.44	54.22	35.75	7.0	30.41	7.9	6.3	
1210	PLATINUM	9.80	1.32	62.0	53.8	50	0.3	185.4	14.4	0.3	81.2	62.6	9.52	0.59	12	132.1	1.30	29.1	11.4	610	22.64	53.98	32.43	5.5	29.38	8.2	5.6	
1211	TOPPER	12.83	1.56	65.3	45.1	100	0.3	177.7	22.0	0.2	79.4	63.5	11.56	0.73	13	107.3	2.14	31.9	11.7	516	20.40	50.84	31.79	4.5	30.05	8.1	5.7	
1375	DESERT KING	14.29	1.40	63.0	45.7	100	-	181.2	18.5	0.2	79.4	66.5	13.16	0.88	8	22.8	1.74	37.7	14.2	585	24.04	50.40	35.48	6.0	29.54	7.6	6.9	
1429	FORTISSIMO	12.67	1.42	63.2	45.7	100	-	175.6	24.1	0.1	78.4	64.4	11.90	0.74	13	150.4	1.43	32.4	11.8	642	25.90	48.96	36.01	5.5	29.37	8.5	6.4	
1431	VOLANTE	10.08	1.55	64.5	49.5	78	-	193.3	6.8	0.1	79.7	62.8	9.35	0.77	8	84.4	1.13	23.7	10.6	636	26.75	53.26	35.82	6.0	30.14	7.5	6.1	
1473	Q-MAX	12.97	1.59	63.5	49.5	99	-	186.7	13.0	0.2	80.6	64.6	11.98	1.08	13	214.5	1.45	32.4	12.8	510	24.10	51.32	33.65	5.5	29.44	7.4	6.6	
1484	WESTMORE	15.17	1.46	628.0	42.0	100	-	180.8	18.8	0.0	79.0	61.3	14.12	0.91	9	284.5	1.98	42.6	18.2	551	26.70	48.89	34.56	5.5	30.06	8.4	6.2	
1582	MAESTRALE	12.31	1.56	64.2	47.8	99	-	175.5	23.8	0.3	79.9	65.5	11.58	0.84	8	154.3	1.71	33.2	12.9	598	22.75	49.47	32.79	4.5	29.82	9.0	6.2	
1583	SARAGOLLA	13.19	1.83	64.7	49.3	98	-	184.0	15.5	0.2	79.8	66.9	12.38	0.66	7	225.0	2.34	34.7	12.1	562	21.96	48.73	33.28	4.5	30.25	8.3	5.9	
1585	TIPAI	12.72	1.46	64.7	53.5	100	-	189.1	10.4	0.1	78.5	66.2	11.70	0.69	4	191.6	1.84	33.7	14	637	25.34	50.40	36.14	6.0	30.36	8.1	6.1	
1627	DESERT KING-HP	15.53	1.49	61.5	43.7	100	-	176.1	23.6	0.1	79.0	66.0	14.67	0.76	11	326.4	1.76	47.3	19.6	686	25.03	49.33	34.68	5.5	30.79	8.4	5.8	
ADVANCED LINES																												
1640	APB D1-2	11.80	1.44	63.5	57.1	95	-	197.0	3.0	0.1	80.0	67.7	10.93	0.84	7	213.9	1.64	34.8	14.2	612	24.88	50.98	36.74	7.5	29.99	7.9	6.4	
1690	UC 1690	14.93	1.65	62.6	46.3	100	-	177.9	21.1	0.2	80.3	67.2	13.07	0.70	7	194.9	1.42	40.7	16.4	510	24.54	50.82	36.42	7.5	29.37	8.1	6.6	
1695	WWW NDRPD3D13	11.43	1.59	64.5	50.8	91	-	192.3	7.9	0.2	80.5	66.8	10.86	0.84	7	92.2	1.46	31.7	11.4	535	23.86	49.43	30.38	4.0	29.61	8.1	5.7	
1696	WWW UT07412	13.69	1.54	63.7	55.9	99	-	197.0	2.9	0.1	78.0	68.0	12.41	0.82	12	96.1	2.39	41.3	14.7	592	21.47	54.83	34.48	6.0	29.34	7.0	6.7	
1697	LG KIKO NICK	11.87	1.53	64.6	58.1	98	-	193.1	5.8	0.3	78.8	67.6	10.68	0.69	10	138.0	2.23	34.2	13.1	662	22.50	50.83	31.38	4.5	30.28	6.0	5.7	
1698	LG ATHORIS	11.03	1.65	64.7	47.4	70	-	186.9	12.8	0.2	78.9	65.4	9.98	0.66	9	224.3	4.32	27.6	10.4	555	23.07	52.87	32.47	5.5	30.16	7.9	5.6	
1717	UC 1717	14.80	1.64	62.4	45.5	100	-	179.7	20.2	0.2	78.7	66.8	14.06	0.82	5	280.6	2.02	37.2	14	589	24.59	48.78	35.98	6.0	29.62	7.9	6.3	
1720	LG IMHOTEP	12.22	1.69	64.6	48.5	97	-	186.2	12.5	0.1	78.3	65.3	11.41	0.82	14	183.8	2.43	31.2	10.9	547	26.82	50.86	35.12	6.0	30.51	7.3	6.2	
1721	LG ALIROR	10.69	1.64	65.1	55.2	75	-	197.6	2.6	0.0	79.5	64.3	9.69	0.69	6	100.7	2.08	26.9	10	581	21.52	53.91	30.32	4.5	30.76	7.6	5.8	
1733	WWW D2517	12.10	1.61	64.8	47.8	96	0.2	179.8	19.6	0.1	79.6	65.4	11.08	0.75	8	132.1	1.47	32.5	12	522	22.58	52.84	29.48	4.5	28.43	7.8	5.7	
1739	WWW CANBELL013	11.07	1.75	63.8	49.8	88	-	187.3	12.4	0.1	78.8	65.1	10.26	0.82	14	186.7	1.48	27	10	560	24.47	53.97	38.08	8.0	29.67	7.2	6.0	
1752	APB D6-419	15.04	1.56	63.2	50.5	100	-	188.1	11.7	0.2	77.4	65.5	14.17	0.82	7	273.4	1.18	39.5	16.3	621	25.90	51.79	31.74	4.5	28.34	8.3	6.0	
1753	APB D7-12	12.06	1.58	62.5	45.7	95	-	165.9	2.3	0.0	77.7	63.8	11.08	0.78	7	151.1	0.89	30.9	11.5	529	27.71	53.85	39.19	8.0	29.63	7.8	5.7	
1754	APB KRLCD	13.31	1.64	63.5	57.5	100	-	197.9	23.0	0.1	75.8	64.5	12.09	0.75	11	197.5	1.66	35.8	13.3	643	26.62	52.84	40.15	8.5	30.21	8.0	6.0	
1755	UC 12210/8	12.63	1.49	63.8	50.5	100	-	187.2	12.8	0.1	78.4	63.7	11.75	0.82	13	221.7	1.76	33.2	13.5	542	23.36	53.44	37.33	7.5	28.99	7.1	6.5	
1756	UC 12210/9	13.73	1.73	63.9	51.8	100	-	181.7	18.2	0.2	77.7	64.0	14.79	0.82	12	207.9	1.43	38.5	14.2	523	23.75	52.39	37.38	7.5	28.76	6.7	6.2	
1757	UC 12213/43	15.53	1.75	62.5	47.2	100	-	184.8	15.1	0.1	76.2	61.4	13.78	0.74	9	350.5	1.51	45.9	21	923	27.28	52.50	40.86	8.5	29.90	6.3	7.0	
1758	UC 12216/5	14.37	1.44	62.8	52.9	100	-	188.6	11.3	0.2	78.7	63.3	13.45	0.80	10	272.7	0.88	43.8	19.1	694	28.27	52.59	42.07	9.0	29.26	6.6	6.6	
1765	WWW AUD31370	14.02	1.58	64.2	54.1	100	-	193.8	6.2	0.1	76.7	63.5	13.12	0.76	8	140.6	1.15	38.7	13.9	626	24.05	53.43	38.42	8.0	29.87	7.1	6.1	

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.

2013 Imperial Durum Wheat Test, Quality Evaluation

Entry	Name	Milling																			Pasta						
		Grain									Semolina										Color "b"	Color L	Color b	Color Score	Cook Wt	Cook Loss	Firm
		Pro	Ash	Test Wt	1000 Kwt	HVAC	Black Point	Kernel 7W	Size 10W	Dist. (200 g) 12W	Tot Ext	Semo Ext	Pro	Ash	Spk	Alveo- W	Alveo- P/L	Wet Glut	Dry Glut	Fall No.							
CULTIVARS																											
878	DURAKING	13.89	1.83	60.5	35.5	100	0.1	139.6	58.9	1.7	98.9	63.9	13.02	1.15	16	160.9	1.20	35.7	13	692	25.86	53.40	39.09	8.0	29.03	7.3	7.7
951	KRONOS	14.19	1.93	59.0	43.5	100	-	170.8	28.1	0.9	77.5	62.2	13.21	0.88	15	226.9	2.10	36.5	15.7	738	28.39	52.51	41.57	9.0	29.97	7.3	7.7
1166	CROWN	14.15	1.88	56.3	37.0	100	0.1	136.0	61.9	1.7	76.6	58.5	12.83	0.83	6	324.4	1.50	37	13.3	648	27.64	53.51	41.83	9.0	29.05	7.0	7.7
1210	PLATINUM	14.46	1.84	56.9	38.0	100	0.2	142.3	55.9	1.3	77.1	61.8	13.55	1.02	13	233.5	1.03	37.7	14.3	805	27.55	59.12	38.08	8.5	29.21	6.2	8.5
1211	TOPPER	14.14	1.99	59.8	33.6	100	0.4	141.7	57.7	2.5	77.8	61.8	13.19	0.91	15	186.4	1.17	40	15	670	25.92	51.19	38.10	7.5	29.70	7.2	8.0
1215	ORITA	15.17	1.85	58.1	38.2	100	-	160.8	32.7	1.3	73.7	58.7	13.88	1.05	21	216.5	1.33	38.4	13.7	894	26.75	49.22	38.82	8.0	29.62	7.6	8.2
1375	DESERT KING	13.63	1.85	60.6	40.5	100	-	158.2	39.3	1.8	77.4	64.5	12.68	1.00	8	181.6	1.10	39.6	15.3	693	26.09	51.22	35.88	6.0	30.00	7.1	8.3
1429	FORTISSIMO	14.12	1.92	59.0	34.1	100	-	124.9	72.4	1.8	74.3	60.7	13.21	1.03	18	139.3	1.09	37.2	13.9	637	29.16	50.00	42.20	9.5	29.18	7.3	7.9
1431	VOLANTE	12.93	1.75	60.4	39.4	100	-	145.4	52.8	1.2	74.8	60.4	11.88	0.85	30	143.2	1.25	33.4	12.1	692	29.40	49.83	40.16	9.0	30.45	7.0	8.2
1473	Q-MAX	13.90	1.96	58.7	36.4	100	-	133.5	63.8	2.1	78.4	63.0	12.86	0.81	2	277.3	1.60	38	14.6	586	27.65	53.83	41.12	9.0	29.96	7.2	7.6
1479	HAVASU	14.12	1.83	62.4	42.0	100	-	167.4	32.1	0.5	76.5	62.9	13.17	0.92	11	275.3	1.72	38.7	15.2	826	29.68	54.27	42.76	9.5	29.15	7.0	8.5
1484	WESTMORE	15.37	1.62	60.1	36.2	100	-	142.2	59.0	0.9	74.1	58.8	14.10	0.79	14	337.5	2.02	41.2	16	785	29.84	48.57	40.28	9.0	28.28	7.4	8.6
1582	MAESTRALE	14.18	1.90	59.2	36.6	100	0.1	126.6	67.3	4.9	79.3	64.8	13.28	1.04	2	166.1	1.70	38.2	13.4	667	26.07	53.86	37.17	7.5	28.96	7.3	7.9
1583	SARAGOLLA	13.54	1.92	61.3	37.3	100	-	153.7	48.3	1.9	78.8	63.9	12.48	1.19	6	229.6	2.87	31.5	11.6	665	25.85	48.97	37.97	7.5	30.36	8.3	7.8
1585	TIPAI	13.84	1.68	61.2	44.6	100	-	163.0	36.1	0.7	75.6	65.6	12.69	0.94	21	139.3	1.39	40.5	16.1	75.5	29.10	58.83	41.93	9.5	29.75	7.3	8.2
1607	WB-MEAD	14.87	1.87	58.8	36.9	100	-	143.5	53.6	2.2	76.8	62.4	14.07	1.12	19	232.2	1.50	40.2	14.9	848	31.17	51.30	41.29	9.0	30.15	8.1	8.3
1627	DESERT KING-HP	15.42	2.02	57.2	33.7	100	-	143.0	54.7	1.8	77.1	64.2	14.74	1.07	4	299.5	1.31	43.5	18.4	712	28.99	52.72	40.20	8.5	30.03	6.9	8.6
1654	WB-MOHAVE	14.45	1.85	60.6	37.5	100	-	158.9	40.0	0.7	76.9	59.8	13.54	1.10	18	329.6	1.80	33.6	12.5	715	30.23	52.25	43.11	9.5	29.17	7.6	8.2
ADVANCED LINES																											
1640	APB D1-2	13.87	1.88	59.8	45.7	100	-	180.8	18.4	0.4	76.8	63.1	13.01	0.97	9	211.2	1.30	39.4	16.4	708	28.87	55.26	43.69	10.0	28.74	6.8	7.8
1677	RS001	13.40	1.62	61.5	43.5	100	0.2	163.4	35.6	1.0	73.8	60.7	12.48	0.78	8	170.0	1.14	39.9	15.8	719	27.83	55.94	43.69	10.0	29.53	6.1	8.3
1678	RS002	13.37	1.74	62.4	45.5	100	-	170.6	28.6	0.7	78.2	62.8	12.27	0.65	7	121.6	1.05	34.1	13.5	663	28.09	54.40	42.48	9.0	29.40	7.2	8.1
1690	UC 1690	14.70	1.99	57.9	36.0	100	-	151.5	47.4	0.1	78.0	65.2	13.73	1.04	7	132.1	0.95	41.4	15.1	591	27.68	57.16	39.93	9.0	28.17	6.6	9.3
1695	WWW NDPRD3D13	13.57	1.76	59.7	34.7	100	-	143.9	54.1	1.2	76.5	62.4	12.29	0.93	16	88.9	0.82	36.2	13.2	698	27.88	57.00	38.45	8.0	28.83	7.1	8.1
1696	WWW UT07412	14.37	2.09	60.0	43.3	100	0.1	173.6	23.9	0.7	77.1	62.7	12.88	1.03	29	128.2	2.40	39.2	13.6	729	36.81	54.20	37.53	7.5	29.39	7.6	7.7
1697	LG KIKO NICK	14.09	1.67	61.0	43.3	100	-	171.4	27.4	0.8	79.1	64.3	12.63	1.05	10	162.2	1.65	33	12.1	777	25.99	50.30	38.48	8.0	29.72	7.4	7.8
1698	LG ATHORIS	12.44	1.81	60.8	38.3	98	0.1	146.8	50.8	19.0	77.9	65.2	11.57	0.91	5	206.0	3.30	32.9	12.1	835	28.58	50.58	38.66	8.0	29.92	8.6	7.1
1709	RS003	14.38	2.03	59.4	39.1	100	-	151.9	46.5	1.3	73.0	60.0	13.36	1.05	22	338.1	0.94	36.7	13.5	698	25.96	48.30	38.29	9.0	29.19	7.2	8.6
1717	UC 1717	13.34	1.84	61.6	38.0	100	-	184.0	34.3	1.1	75.4	62.1	12.46	0.91	17	318.5	1.48	33.8	12.1	618	28.80	48.84	39.48	9.5	29.34	7.4	8.0
1720	LG IMHOTEP	12.96	1.55	62.5	45.3	100	-	152.8	46.0	0.9	80.0	63.2	11.96	1.00	11	112.5	1.66	33.5	11.9	616	28.24	50.66	38.77	8.5	30.39	7.2	7.9
1721	LG ALIROR	12.82	1.68	63.2	45.5	99	0.6	168.1	31.0	0.6	76.9	62.0	11.66	0.75	13	81.1	1.74	35.6	12.3	677	26.38	54.84	38.69	8.0	30.01	7.8	7.7
1733	WWW D2517	12.80	1.72	61.2	37.6	99	0.2	144.2	54.7	1.1	78.4	64.3	12.05	1.04	7	129.5	1.25	33.8	12.5	675	26.22	54.62	38.87	8.0	30.26	7.7	7.3
1739	WWW CANBELL013	146.00	1.98	57.6	34.7	100	-	136.9	60.9	1.8	76.3	62.2	13.75	1.17	13	291.0	1.41	37.5	15.1	904	30.18	49.49	38.06	8.5	29.22	7.0	8.3
1752	APB D6-419	14.38	1.78	60.1	40.7	100	-	161.5	36.6	1.1	74.4	62.2	13.44	0.94	6	294.9	1.35	42.4	17.5	652	26.23	53.89	40.07	8.5	29.35	6.7	7.7
1753	APB D7-12	13.89	1.85	58.8	37.9	100	0.4	143.6	53.8	1.3	71.9	57.6	12.70	0.81	3	173.3	0.90	34	12.8	658	31.50	54.66	43.57	10.0	30.22	5.7	7.7
1754	APB KRLCD	14.29	1.92	59.8	47.2	100	-	177.1	22.4	0.6	75.2	59.6	12.79	1.11	12	128.2	2.01	35.1	13.1	706	28.75	54.31	41.54	9.0	29.16	7.3	8.2
1755	UC 12210/8	13.59	1.91	59.6	42.7	100	-	161.9	36.7	1.2	77.0	63.2	12.60	1.03	17	249.8	1.75	37.2	14.7	771	26.95	53.14	37.76	8.0	29.22	6.7	7.7
1756	UC 12210/9	14.08	1.91	61.3	40.5	100	-	170.5	33.7	1.4	76.2	60.0	12.94	0.95	27	158.3	1.03	37.4	14.3	722	25.87	49.76	38.81	8.0	28.88	6.8	8.8
1757	UC 12213/43	16.56	2.04	58.3	39.5	100	-	168.9	31.3	0.7	71.9	58.4	15.56	1.02	20	403.5	2.60	44.7	18	695	29.18	53.70	43.68	10.0	29.49	6.9	9.8
1758	UC 12216/5	14.70	1.73	59.2	45.2	100	-	170.9	27.9	0.7	79.8	65.1	13.93	0.87	24	279.9	1.00	40.9	14.9	737	31.25	54.97	43.78	10.0	29.11	6.3	8.3
1759	WB YU807-86	14.39	1.92	61.2	43.7	100	-	171.2	27.8	0.9	75.9	62.8	13.39	1.08	19	347.9	2.10	36.8	13.5	917	37.20	53.35	41.90	9.0	30.04	7.9	7.8
1765	WWW AUD31370	13.31	1.96	61.0	42.7	100	0.2	167.1	32.0	1.1	74.0	58.0	12.38	0.89	7	81.8	0.71	36.6	13.2	63.5	25.68	55.46	41.66	9.5	30.69	7.0	7.9

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).

2011-13 Durum Wheat Yield Summary (lbs/acre)

Entry	Name	Sacramento Valley			San Joaquin Valley			Imperial Valley		
		2013 (1 loc)	2012-13 (2 loc/yr)	2011-13 (3 loc/yr)	2013 (2 loc/yr)	2012-13 (5 loc/yr)	2011-13 (8 loc/yr)	2013 (1 loc/yr)	2012-13 (2 loc/yr)	2011-13 (3 loc/yr)
CULTIVARS										
878	DURAKING	4300 (32)	5030 (11)	5060 (6)	6080 (31)	6340 (5)	6220 (10)	5130 (39)	6490 (20)	5700 (19)
951	KRONOS	7010 (17)	-	-	6420 (27)	-	-	7030 (2)	-	-
1166	CROWN	7180 (7)	6620 (2)	6100 (2)	6960 (10)	6150 (9)	6220 (10)	6360 (8)	6580 (18)	6100 (13)
1210	PLATINUM	7110 (10)	6220 (7)	6150 (1)	6880 (15)	6220 (8)	6360 (9)	5930 (27)	6310 (24)	5960 (17)
1211	TOPPER	7040 (15)	6490 (3)	5960 (3)	7560 (1)	6950 (1)	7140 (2)	6230 (16)	7000 (6)	6440 (7)
1215	ORITA	-	-	-	-	-	-	6060 (21)	6820 (11)	6540 (3)
1375	DESERT KING	7080 (12)	-	-	7120 (7)	-	-	6310 (12)	6970 (7)	6340 (10)
1429	FORTISSIMO	7370 (4)	-	-	6610 (25)	-	-	6020 (23)	-	-
1431	VOLANTE	7070 (13)	-	-	6880 (15)	-	-	5750 (32)	-	-
1473	Q-MAX	6330 (26)	6340 (5)	5630 (5)	6870 (18)	6070 (12)	5940 (13)	5270 (38)	6460 (22)	5980 (15)
1479	HAVASU	-	-	-	-	-	-	6040 (22)	6620 (17)	6420 (8)
1484	WESTMORE	6840 (21)	-	-	6740 (21)	-	-	5560 (37)	-	-
1582	MAESTRALE	6200 (29)	-	-	7090 (8)	5970 (14)	6490 (8)	4900 (40)	5880 (26)	5580 (20)
1583	SARAGOLLA	7120 (9)	-	-	7310 (4)	6300 (7)	6920 (4)	5790 (31)	6470 (21)	5850 (18)
1585	TIPAI	6930 (20)	-	-	6880 (15)	-	-	6250 (14)	6960 (8)	6590 (2)
1607	WB-MEAD	-	-	-	-	-	-	5650 (34)	6570 (19)	-
1627	DESERT KING-HP	6150 (30)	-	-	6390 (28)	-	-	5590 (36)	-	-
1654	WB-MOHAVE	-	-	-	-	-	-	6090 (18)	6640 (16)	-
ADVANCED LINES										
1640	APB D1-2	7470 (3)	5880 (8)	-	7310 (4)	6330 (6)	6500 (6)	6730 (4)	7030 (4)	6530 (5)
1677	RS001	-	-	-	-	-	-	6320 (11)	6730 (13)	6520 (6)
1678	RS002	-	-	-	-	-	-	6250 (14)	6840 (10)	6540 (3)
1690	UC 1690	7010 (17)	6260 (6)	5770 (4)	7480 (2)	6810 (2)	7290 (1)	6620 (5)	7110 (3)	6280 (11)
1695	WWW NDRD3D13	7020 (16)	6370 (4)	-	6730 (22)	6140 (10)	6530 (5)	6170 (17)	6680 (15)	6000 (14)
1696	WWW UT07412	6510 (24)	5760 (10)	-	6610 (25)	5610 (16)	6090 (12)	5720 (33)	6200 (25)	5970 (16)
1697	LG KIKO NICK	7510 (2)	-	-	6910 (13)	6560 (4)	7120 (3)	6080 (20)	7200 (2)	6650 (1)
1698	LG ATHORIS	7050 (14)	-	-	6800 (19)	6080 (11)	6500 (6)	5830 (29)	6790 (12)	6240 (12)
1709	RS003	-	-	-	-	-	-	6000 (24)	6730 (13)	6380 (9)
1717	UC 1717	6280 (27)	5800 (9)	-	7140 (6)	6730 (3)	-	6490 (6)	7020 (5)	-
1720	LG IMHOTEP	-	-	-	-	-	-	5870 (28)	6370 (23)	-
1721	LG ALIROR	7330 (5)	-	-	6640 (23)	6050 (13)	-	7000 (3)	7600 (1)	-
1733	WWW D2517	7560 (1)	6670 (1)	-	6340 (29)	5700 (15)	-	7260 (1)	6870 (9)	-
1739	WWW CANBELL013	6260 (28)	-	-	6640 (23)	-	-	6450 (7)	-	-
1752	APB D6-419	6840 (21)	-	-	6910 (13)	-	-	6290 (13)	-	-
1753	APB D7-12	6990 (19)	-	-	6780 (20)	-	-	4630 (41)	-	-
1754	APB KRLCD	6120 (31)	-	-	6270 (30)	-	-	6090 (18)	-	-
1755	UC 12210/8	7260 (6)	-	-	7030 (9)	-	-	5960 (25)	-	-
1756	UC 12210/9	7170 (8)	-	-	7320 (3)	-	-	6360 (8)	-	-
1757	UC 12213/43	6480 (25)	-	-	5840 (32)	-	-	5610 (35)	-	-
1758	UC 12216/5	6590 (23)	-	-	6960 (10)	-	-	5800 (30)	-	-
1759	WB YU807-86	-	-	-	-	-	-	6330 (10)	-	-
1765	WWW AUD31370	7090 (11)	-	-	6950 (12)	-	-	5950 (26)	-	-
MEAN		6820	6130	5780	6830	6250	6560	6040	6730	6230

Numbers in parentheses indicate relative rank.

If a variety was not grown (or there was no data for it) in every location of a region, no data is reported here to preserve accurate statistics.

Individual results are available in the single location summaries.

Sacramento Valley locations reported: Davis 2011-13

San Joaquin Valley locations reported: Fresno 2011-13, Kern 2011-13, Kings 2011-12

Imperial Valley locations reported: Holtville 2011-13

2013 UC Regional Barley Entry List

Entry Name	Type	Parentage	Source	Grown At
CULTIVARS				
603 UC 603	6RSF	(((Marie*LU)*TRL)*BR)*(YDRBR*YDMRBR)	UC	ALL
816 MAX	BAR	MSFRS SELECTION	WWW	ALL
933 UC 933	6RSF	Sma1/SB401/3/Gus/KBY//Sma1	UC	ALL
951 MELTAN	2RSF		ADAMS	ALL
1047 ISHI	6RSF	F6 UC 828/UC 960	UC	ALL
1134 TAMALPAIS	6RS(N)	F7 CMB 91A-1192-AL/UC 960	UC	ALL
ADVANCED LINES				
1231 UCD 08YP 111	6RSF	F6 22IBYT7//UC933/UC1047	UC	ALL
1237 WWW BA4513	BAR	MSFRS SELECTION	WWW	ALL
1255 UCD B369	6RSF	22IBYT7//UC933/UC1047	UC	ALL
1256 UCD B398	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
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
1317 UCD 1317	6RSF-H	Tamalpais//Madera/UC937	UC	ALL
1318 UCD 1318	6RSF-H	Tamalpais//Madera/UC937	UC	ALL
1319 UCD 1319	6RSF-H	Tamalpais//Madera/UC937	UC	ALL
1321 UCD 1321	6RSF-H	Tamalpais//Madera/UC937	UC	ALL
1322 UCD 1322	6RSM	Z055001/CIMMYT 7862	UC	ALL
1323 UCD 1323	6RSM	Z055001/CIMMYT 7862	UC	ALL
1325 UCD 1325	6RSM	Z055001/CIMMYT 7862	UC	ALL
1326 WWW BA4545	BAR	MSFRS SELECTION	WWW	ALL
1346 APB E-1			APB	CB, FRE, TUL, UCDRF
1347 APB E-3			APB	CB, FRE, TUL, UCDRF
1348 UCD UYP 231	Hulless	11 HB13//Tamalpais/UC147	UC	CB, FRE, UCDRF
1349 UCD UYP 213	Covered	Tamalpais//22IBYT7/UC1047	UC	CB, FRE, UCDRF
1350 UCD UYP 306	Hulless	Tamalpais//22IBYT7/UC1047	UC	CB, FRE, UCDRF
1351 UCD UYP 210	Hulled	Tamalpais//22IBYT7/UC1047	UC	CB, FRE, UCDRF
1352 UCD UYP 275	Hulled	22IBYT7//UC1047/UC1108	UC	CB, FRE, UCDRF
1353 UCD UYP 3	Checking	Archive Yp 794	UC	CB, FRE, UCDRF
1354 UCD UYP 2	Checking	Archive Yp 796	UC	CB, FRE, UCDRF
1355 UCD K1-11C	Hooded	K215//Sara/Tango	UC	ALL
1356 UCD K2-A	Hooded	K215//Sara/Tango	UC	ALL
1357 UCD K3-4H	Hooded	K215//Sara/Tango	UC	ALL
1358 UCD K11-B	Hooded	K215//Sara/Tango	UC	ALL
1359 UCD K12-3J	Hooded	K215//Sara/Tango	UC	ALL
1360 UCD Butta 12-96		BU27/3/TRIUMPH/TYRA//ARUPO*2//ABYSSINIAN	UC	UCDRF
1361 UCD 11 MQ 12			UC	FRE, UCDRF

42 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 WHI
LOCATIONS: CB = CLARKSBURG; SLO = SAN LUIS OBISPO; UCDRF = UC DAVIS RAINFED;
TEH = TEHAMA; TUL = TULARE; FRE = FRESNO

2013 Clarksburg Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Lodging		Shatter	BYDV 5/11	Powdery Mildew 5/11	Animal Damage
				Kernel Wt (g)	Plant Ht (in)	Soft Dough	Harvest				
CULTIVARS											
603	UC 603	3690 (1)	45.1	25.7	33	2.8	5.3	1.3	1.0	1.0	1.0
816	MAX	1690 (41)	48.2	27.2	31	1.3	2.8	1.5	1.0	1.3	1.0
933	UC 933	2930 (10)	44.3	26.7	31	1.5	3.8	1.3	1.0	1.0	1.0
951	MELTAN	2280 (29)	45.3	23.0	34	1.0	3.0	1.0	3.3	1.0	1.0
1047	ISHI	2860 (12)	48.2	36.0	35	3.5	5.3	1.0	1.0	1.0	1.5
1134	TAMALPAIS	3660 (2)	50.6	29.7	32	1.0	1.8	1.0	1.0	1.0	1.0
ADVANCED LINES											
1231	UCD 08YP 111	3170 (7)	43.7	28.8	36	1.8	4.3	1.3	1.0	1.0	1.0
1237	WWW BA4513	2030 (33)	49.5	34.9	35	3.3	3.5	1.5	1.0	3.8	2.5
1255	UCD B369	3170 (8)	43.2	26.9	35	2.0	3.5	1.0	1.0	1.0	1.0
1256	UCD B398	3180 (6)	44.8	29.0	32	2.3	3.3	1.3	1.0	1.0	1.0
1259	UCD B366	2620 (18)	41.0	27.2	33	2.0	4.5	1.0	1.0	1.0	1.0
1260	UCD B372	2550 (23)	44.5	27.9	33	2.1	3.7	1.1	1.0	1.0	1.0
1261	UCD A237	2680 (14)	46.3	34.9	42	1.8	3.3	1.0	1.0	1.0	1.0
1263	UCD C43	2910 (11)	46.9	27.3	37	1.0	3.8	1.0	1.0	1.0	1.0
1266	UCD C51	2090 (31)	46.9	25.3	33	2.5	4.0	1.0	1.0	1.0	1.0
1280	UCD 1280	3370 (3)	47.1	32.9	41	5.0	5.8	1.0	1.0	1.0	1.5
1284	UCD 1284	2660 (15)	45.5	28.9	39	3.3	4.3	1.3	1.0	1.0	1.0
1286	UCD 1286	2640 (17)	44.0	29.1	34	2.8	4.8	1.0	1.0	1.0	1.0
1317	UCD 1317	1960 (35)	39.3	21.6	31	2.0	3.5	1.0	1.0	1.0	1.8
1318	UCD 1318	2470 (26)	51.4	30.1	35	2.0	4.8	1.5	1.0	1.0	1.5
1319	UCD 1319	2290 (28)	46.0	24.8	34	1.5	2.8	1.3	1.3	1.0	1.0
1321	UCD 1321	1530 (42)	42.6	21.6	31	1.0	4.3	1.3	1.3	1.0	1.0
1322	UCD 1322	2180 (30)	48.4	24.1	36	4.8	5.3	1.3	1.0	1.0	1.3
1323	UCD 1323	2090 (32)	53.3	33.8	34	4.0	4.3	1.8	1.3	1.0	1.5
1325	UCD 1325	2570 (22)	47.1	26.9	35	3.8	3.0	1.3	1.0	1.0	1.8
1326	WWW BA4545	1690 (40)	46.6	28.3	33	4.0	4.5	1.5	1.0	3.3	2.5
1346	APB E-1	2010 (34)	36.6	19.2	32	1.0	2.8	1.0	1.0	1.0	1.0
1347	APB E-3	2600 (20)	38.0	21.4	32	1.0	3.4	1.0	1.0	1.0	1.0
1348	UCD UYP 231	1890 (37)	51.9	26.9	36	3.8	5.7	3.4	1.0	1.0	1.0
1349	UCD UYP 213	2590 (21)	43.9	28.2	36	2.5	3.5	1.3	1.0	1.3	1.8
1350	UCD UYP 306	1920 (36)	53.8	33.1	28	3.0	3.5	1.0	1.0	1.0	1.5
1351	UCD UYP 210	3280 (5)	46.2	30.5	34	3.8	3.8	1.3	1.0	1.0	1.0
1352	UCD UYP 275	2550 (24)	42.9	27.9	34	3.5	3.8	1.0	1.0	1.0	1.8
1353	UCD UYP 3	3300 (4)	50.1	37.8	36	2.5	3.8	1.0	1.0	1.0	2.0
1354	UCD UYP 2	2770 (13)	39.1	22.7	39	4.0	4.5	1.0	1.0	1.0	1.8
1355	UCD K1-11C	1850 (38)	42.7	29.8	41	3.8	6.0	2.4	1.0	1.0	1.0
1356	UCD K2-A	2310 (27)	43.2	28.3	36	3.3	4.0	3.3	1.0	1.0	1.0
1357	UCD K3-4H	3040 (9)	42.7	26.7	43	2.3	4.3	1.0	1.0	1.0	1.0
1358	UCD K11-B	2650 (16)	44.0	29.5	37	2.8	4.0	2.0	1.0	1.0	1.0
1359	UCD K12-3J	1790 (39)	44.2	32.5	41	2.0	3.5	2.8	1.0	1.0	1.0
1360	UCD BUTTA 12-96	2500 (25)	47.0	24.7	35	4.8	4.5	1.3	1.0	2.0	2.3
MEAN		2500	45.3	28.2	35	2.6	4.0	1.3	1.1	1.2	1.3
CV		22.4	7.6	15.6	8	36.6	26.5	43.0	18.9	30.4	61.2
LSD (.05)		780	7.0	8.9	6	1.3	1.5	0.8	0.3	0.5	ns

Rating scale for 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%.

BYDV, lodging, shatter, and animal damage ratings (see scale above) were based on percentage of plants showing symptoms.

Numbers in parentheses indicate relative rank in column.

2013 Fresno Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Lodging		Shatter	Stripe Rust 4/29	BYDV 4/29	Powdery Mildew 4/29
				Kernel Wt (g)	Plant Ht (in)	Soft Dough	Harvest				
<u>CULTIVARS</u>											
603	UC 603	5780 (31)	52.8	40.6	35	1.3	1.5	1.3	1.0	1.0	1.0
816	MAX	7240 (12)	54.3	40.6	28	1.0	1.3	1.0	2.8	1.0	1.3
933	UC 933	6600 (16)	53.8	46.1	32	1.0	1.8	1.0	1.0	1.0	1.0
951	MELTAN	6130 (24)	56.4	44.9	31	1.0	1.0	1.0	1.0	1.5	1.0
1047	ISHI	7460 (5)	52.8	48.1	34	1.0	1.3	1.0	1.0	1.0	1.0
1134	TAMALPAIS	6120 (25)	60.0	42.1	27	1.0	1.0	1.0	1.0	1.0	1.0
<u>ADVANCED LINES</u>											
1231	UCD 08YP 111	7510 (4)	52.4	50.6	35	1.0	1.0	1.0	1.0	1.0	1.0
1237	WWW BA4513	7030 (14)	53.7	43.0	31	1.0	1.0	1.0	1.0	1.0	1.0
1255	UCD B369	7400 (6)	51.6	49.0	32	1.0	1.3	1.0	1.0	1.0	1.0
1256	UCD B398	7810 (1)	52.2	50.1	33	1.0	1.3	1.0	1.0	1.0	1.0
1259	UCD B366	7190 (13)	50.4	47.6	37	1.8	2.8	1.0	1.0	1.0	1.0
1260	UCD B372	7360 (8)	52.0	46.1	33	1.0	1.3	1.0	1.0	1.0	1.0
1261	UCD A237	7580 (2)	52.1	47.8	31	1.0	1.0	1.0	1.0	1.0	1.0
1263	UCD C43	5830 (30)	60.1	46.2	33	1.0	1.0	1.0	1.0	1.0	1.0
1266	UCD C51	6520 (20)	57.4	41.2	34	1.8	2.3	1.0	1.0	1.0	1.0
1280	UCD 1280	6280 (22)	54.3	46.2	40	1.3	3.5	2.3	1.0	1.0	1.0
1284	UCD 1284	7530 (3)	51.3	44.9	37	2.3	3.0	1.5	1.0	1.0	1.0
1286	UCD 1286	7400 (7)	51.4	48.3	31	1.0	1.5	1.0	1.0	1.0	1.0
1317	UCD 1317	6230 (23)	56.4	39.5	35	1.0	1.8	1.0	1.0	1.0	1.0
1318	UCD 1318	6350 (21)	61.6	43.4	32	1.0	2.3	1.0	1.0	1.0	1.0
1319	UCD 1319	5980 (28)	60.6	44.0	30	1.0	1.5	1.3	1.0	1.0	1.0
1321	UCD 1321	6020 (27)	60.0	44.0	30	1.0	1.0	1.0	1.0	1.0	1.0
1322	UCD 1322	4860 (35)	55.7	39.1	36	2.0	4.5	2.0	1.0	1.0	1.0
1323	UCD 1323	5570 (33)	56.5	41.3	35	1.8	3.5	1.8	1.0	1.0	1.0
1325	UCD 1325	5880 (29)	56.1	42.3	36	2.5	4.3	1.5	1.0	1.0	1.0
1326	WWW BA4545	6590 (17)	51.3	42.0	33	2.0	2.3	1.0	1.0	1.0	2.0
1346	APB E-1	5650 (32)	59.3	36.5	31	1.3	2.3	1.0	1.0	1.0	1.0
1347	APB E-3	5450 (34)	55.7	39.2	31	1.0	2.0	1.0	1.0	1.0	1.0
1348	UCD UYP 231	3870 (39)	62.6	41.1	37	1.0	2.0	2.8	1.0	1.0	1.0
1349	UCD UYP 213	6530 (19)	52.3	49.4	32	1.0	1.3	1.0	1.0	1.0	1.0
1350	UCD UYP 306	6580 (18)	61.9	45.6	29	1.0	1.0	1.0	1.0	1.0	1.0
1351	UCD UYP 210	7300 (10)	51.2	45.5	31	1.0	1.0	1.0	1.0	1.0	1.0
1352	UCD UYP 275	6650 (15)	51.0	48.3	33	1.0	1.5	1.0	1.3	1.0	1.0
1353	UCD UYP 3	7270 (11)	51.8	46.2	33	1.0	1.5	1.0	1.0	1.0	1.0
1354	UCD UYP 2	6060 (26)	60.5	40.5	33	1.0	1.3	1.0	1.0	1.0	1.0
1355	UCD K1-11C	2790 (42)	49.4	45.5	40	1.0	1.5	5.8	1.0	1.0	1.0
1356	UCD K2-A	3900 (38)	47.8	39.0	39	1.0	2.0	4.3	1.0	1.0	1.0
1357	UCD K3-4H	3500 (40)	50.2	42.4	39	1.0	1.8	4.3	1.0	1.0	1.0
1358	UCD K11-B	3340 (41)	50.0	41.0	39	1.0	1.5	4.8	1.0	1.0	1.0
1359	UCD K12-3J	4260 (36)	45.4	35.3	39	1.0	1.8	2.8	1.0	1.0	1.0
1361	UCD 11 MQ 12	4240 (37)	55.7	47.8	38	1.3	2.0	4.7	1.0	1.0	1.0
MEAN		6040	54.1	43.6	34	1.2	1.8	1.7	1.0	1.0	1.0
CV		9.8	1.8	4.8	6.8	56.2	62.0	36.1	26.0	8.7	30.5
LSD (.05)		830	2.0	4.2	5	ns	1.5	0.9	0.4	0.1	ns

Rating scale for 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%.

BYDV, lodging, and shatter ratings (see scale above) were based on percentage of plants showing symptoms.

Numbers in parentheses indicate relative rank in column.

2013 UC Davis Rainfed Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000		Days To		Lodging		Shatter	BYDV 5/1	Powdery Mildew 5/1
				Kernel Wt (g)	Plant Ht (in)	Heading From (3/1)	Maturity	Soft Dough	Harvest			
CULTIVARS												
603	UC 603	4290 (11)	47.5	30.0	34	32	65	1.0	3.8	1.5	1.0	1.0
816	MAX	3270 (31)	44.9	23.4	28	48	70	1.0	1.5	1.0	1.0	1.0
933	UC 933	3860 (17)	45.8	32.4	30	36	68	1.5	4.5	1.5	1.0	1.0
951	MELTAN	3350 (30)	51.0	31.5	33	40	67	1.0	1.5	2.0	1.0	1.0
1047	ISHI	4390 (8)	46.5	33.7	34	36	67	1.0	4.5	1.3	1.3	1.0
1134	TAMALPAIS	3580 (24)	45.1	25.9	31	39	68	1.0	1.8	1.0	1.0	1.0
ADVANCED LINES												
1231	UCD 08YP 111	4810 (2)	45.2	37.3	34	37	68	1.0	2.8	1.0	1.0	1.0
1237	WWW BA4513	3790 (18)	43.7	28.6	34	47	69	1.0	2.0	1.5	1.0	1.8
1255	UCD B369	4360 (9)	45.1	34.7	33	38	68	1.0	3.0	1.5	1.0	1.0
1256	UCD B398	4720 (5)	45.1	34.8	33	41	69	1.0	2.8	1.5	1.0	1.0
1259	UCD B366	4570 (7)	45.1	36.6	37	38	69	1.0	3.5	1.5	1.0	1.0
1260	UCD B372	4580 (6)	43.1	29.7	35	39	68	1.0	3.3	1.3	1.0	1.0
1261	UCD A237	3890 (16)	43.6	29.1	32	45	68	1.0	2.3	1.3	1.0	1.0
1263	UCD C43	3370 (28)	45.9	27.6	33	43	68	1.0	2.5	1.3	1.0	1.0
1266	UCD C51	3680 (21)	45.6	28.2	33	43	68	1.0	2.8	1.5	1.0	1.0
1280	UCD 1280	5000 (1)	47.8	34.7	41	33	66	2.3	4.3	1.8	1.0	1.0
1284	UCD 1284	4050 (13)	42.0	25.7	32	41	66	1.0	3.3	1.8	1.0	1.0
1286	UCD 1286	4150 (12)	42.0	31.5	32	41	68	1.0	3.0	1.5	1.0	1.0
1317	UCD 1317	3580 (23)	41.6	26.2	32	43	69	1.0	2.8	1.3	1.0	1.0
1318	UCD 1318	3590 (22)	44.9	26.6	34	38	65	1.0	3.8	1.0	1.0	1.0
1319	UCD 1319	2680 (39)	40.2	24.0	31	46	67	1.0	1.8	1.5	1.0	1.0
1321	UCD 1321	3200 (32)	42.2	27.2	31	44	68	1.0	1.5	1.0	1.0	1.0
1322	UCD 1322	3140 (34)	50.8	31.0	35	37	62	2.3	3.8	3.8	1.0	1.0
1323	UCD 1323	2960 (36)	51.5	33.5	34	40	60	3.0	3.8	3.3	1.0	1.0
1325	UCD 1325	3540 (25)	48.2	27.3	34	39	62	1.0	3.5	2.8	1.0	1.0
1326	WWW BA4545	3940 (15)	42.8	26.0	35	43	70	1.0	1.5	1.5	1.0	2.0
1346	APB E-1	2620 (40)	41.0	22.2	32	42	66	1.0	2.0	1.0	1.0	1.0
1347	APB E-3	3450 (26)	38.6	23.9	33	41	67	1.0	1.5	1.0	1.0	1.0
1348	UCD UYP 231	3150 (33)	50.2	25.9	39	31	63	3.0	4.8	2.3	1.0	1.0
1349	UCD UYP 213	4330 (10)	45.9	32.9	35	37	68	1.0	2.0	1.3	1.0	1.0
1350	UCD UYP 306	2950 (37)	45.2	24.0	28	47	72	1.0	1.8	1.0	1.0	1.0
1351	UCD UYP 210	4730 (3)	45.2	30.1	33	42	69	1.0	1.3	1.0	1.0	1.0
1352	UCD UYP 275	4020 (14)	47.2	36.2	36	39	67	1.0	4.0	1.3	1.0	1.0
1353	UCD UYP 3	3710 (20)	42.1	26.9	33	40	68	1.0	3.3	1.0	1.0	1.0
1354	UCD UYP 2	4720 (4)	40.8	27.8	36	33	63	1.0	2.8	1.3	1.0	1.0
1355	UCD K1-11C	2550 (41)	46.3	36.7	40	34	66	1.0	2.3	4.8	1.0	1.0
1356	UCD K2-A	2480 (42)	42.4	30.4	39	40	67	1.0	2.3	5.0	1.0	1.0
1357	UCD K3-4H	3360 (29)	47.8	36.6	42	37	66	1.3	2.3	3.8	1.0	1.0
1358	UCD K11-B	3080 (35)	45.4	31.9	41	35	65	1.0	2.3	3.3	1.0	1.0
1359	UCD K12-3J	2370 (43)	42.7	29.1	40	49	69	1.3	1.8	3.3	1.0	1.0
1360	UCD BUTTA 12-96	3740 (19)	49.4	33.7	36	42	65	2.8	3.8	1.3	1.0	1.0
1361	UCD 11 MQ 12	2850 (38)	51.6	38.5	41	31	60	2.0	2.5	4.8	1.0	1.0
MEAN		3640	45.0	30.1	34	40	67	1.3	2.8	1.9	1.0	1.0
CV		19.2	5.1	12.5	6.9	4.5	2.8	69.2	34.0	31.6	7.5	27.6
LSD (.05)		980	4.7	7.6	3.0	2.0	3.0	1.2	1.3	0.8	ns	0.4

Rating scale for 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%.

BYDV, lodging, and shatter ratings (see scale above) were based on percentage of plants showing symptoms.

Numbers in parentheses indicate relative rank in column.

2013 Tehama Rainfed Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	BYDV	Spot	Animal
					5/3	Blotch 5/3	Damage
<u>CULTIVARS</u>							
603	UC 603	1870 (26)	49.4	27	1.0	3.5	3.5
816	MAX	1750 (27)	47.6	22	1.0	2.5	1.0
933	UC 933	3320 (2)	47.9	25	1.0	1.5	1.0
951	MELTAN	3040 (6)	53.1	25	1.8	1.0	1.0
1047	ISHI	2900 (9)	47.4	27	1.0	1.5	1.0
1134	TAMALPAIS	1920 (23)	50.5	26	1.0	1.0	1.0
<u>ADVANCED LINES</u>							
1231	UCD 08YP 111	2990 (8)	45.6	29	1.0	1.3	1.0
1237	WWW BA4513	2410 (16)	49.3	25	1.0	2.0	1.0
1255	UCD B369	2280 (18)	45.5	31	1.0	1.8	1.0
1256	UCD B398	2880 (11)	45.8	28	1.0	2.0	1.0
1259	UCD B366	2720 (12)	44.7	31	1.0	2.0	1.0
1260	UCD B372	3120 (5)	44.6	29	1.0	1.5	1.0
1261	UCD A237	3160 (3)	46.9	29	1.0	1.5	1.0
1263	UCD C43	1700 (28)	54.9	28	1.0	1.3	1.0
1266	UCD C51	1910 (24)	53.9	27	1.0	1.0	1.0
1280	UCD 1280	1120 (32)	48.6	30	1.0	1.0	5.5
1284	UCD 1284	2210 (19)	46.4	25	1.0	1.3	2.5
1286	UCD 1286	2990 (7)	45.2	27	1.0	1.3	1.0
1317	UCD 1317	2530 (15)	47.0	27	1.0	1.0	1.0
1318	UCD 1318	2360 (17)	53.0	29	1.0	2.3	1.0
1319	UCD 1319	1880 (25)	51.2	26	1.0	1.8	1.3
1321	UCD 1321	2060 (22)	48.7	26	1.0	2.0	1.0
1322	UCD 1322	3640 (1)	51.1	28	1.0	1.0	1.0
1323	UCD 1323	3140 (4)	52.1	30	1.0	1.5	1.0
1325	UCD 1325	2700 (13)	50.3	27	1.0	1.8	1.0
1326	WWW BA4545	2900 (10)	47.1	27	1.0	1.8	1.0
1346	APB E-1	2200 (20)	50.7	26	1.0	1.0	1.0
1347	APB E-3	1490 (29)	46.9	26	1.0	1.5	1.0
1355	UCD K1-11C	430 (34)	42.6	33	1.0	2.0	7.0
1356	UCD K2-A	710 (33)	43.6	34	1.0	1.8	6.3
1357	UCD K3-4H	1170 (31)	44.6	33	1.0	1.5	5.0
1358	UCD K11-B	1440 (30)	44.4	31	1.0	1.5	3.8
1359	UCD K12-3J	2070 (21)	42.3	30	1.0	1.8	3.3
MEAN		2280	47.9	28	1.0	1.6	1.9
CV		28.2	2.7	5.9	8.3	26.5	57.7
LSD (.05)		900	1.9	3	0.1	0.6	1.5

Rating scale for 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%.

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

2011-13 Barley Over Year Yield Summary (lbs/acre)

Entry	Name	Irrigated Tests			Rainfed Tests		
		2013 (2 Loc)	2012-13 (6 Loc/Yr)	2011-13 (9 Loc/Yr)	2013 (1 Loc)	2012-13 (2 Loc/Yr)	2011-13 (3 Loc/Yr)
CULTIVARS							
603	UC 603	4740 (15)	4690 (17)	4610 (11)	3080 (16)	2580 (10)	3030 (11)
816	MAX	4470 (19)	4810 (14)	4610 (11)	2510 (25)	2100 (19)	2710 (14)
933	UC 933	4770 (14)	5370 (10)	5310 (8)	3590 (6)	2620 (8)	3340 (8)
951	MELTAN	4210 (26)	4240 (24)	4190 (14)	3200 (12)	2300 (16)	2800 (13)
1047	ISHI	5160 (6)	5970 (3)	5850 (4)	3650 (4)	2670 (6)	3680 (4)
1134	TAMALPAIS	4890 (12)	5160 (12)	4960 (9)	2750 (22)	2350 (15)	2970 (12)
ADVANCED LINES							
1231	UCD 08YP 111	5340 (2)	5860 (6)	5820 (5)	3900 (1)	2700 (5)	3710 (3)
1237	WWW BA4513	4530 (18)	4860 (13)	-	3100 (15)	2530 (12)	-
1255	UCD B369	5290 (3)	5970 (3)	5950 (1)	3320 (11)	2650 (7)	3660 (5)
1256	UCD B398	5500 (1)	6080 (1)	5910 (3)	3800 (3)	2620 (8)	3800 (1)
1259	UCD B366	4910 (11)	5680 (9)	5700 (7)	3650 (4)	2890 (1)	3660 (5)
1260	UCD B372	4960 (10)	5980 (2)	5940 (2)	3850 (2)	2810 (3)	3730 (2)
1261	UCD A237	5130 (7)	5720 (8)	5750 (6)	3530 (8)	2500 (14)	3620 (7)
1263	UCD C43	4370 (22)	4350 (21)	4510 (13)	2540 (24)	2300 (16)	3070 (9)
1266	UCD C51	4310 (23)	4760 (16)	4830 (10)	2800 (21)	2190 (18)	3070 (9)
1280	UCD 1280	4830 (13)	5330 (11)	-	3060 (17)	2840 (2)	-
1284	UCD 1284	5100 (8)	5920 (5)	-	3130 (13)	2520 (13)	-
1286	UCD 1286	5020 (9)	5740 (7)	-	3570 (7)	2720 (4)	-
1317	UCD 1317	4100 (29)	-	-	3060 (17)	-	-
1318	UCD 1318	4410 (21)	4510 (18)	-	2980 (20)	-	-
1319	UCD 1319	4140 (27)	4330 (22)	-	2280 (28)	-	-
1321	UCD 1321	3780 (33)	4250 (23)	-	2630 (23)	-	-
1322	UCD 1322	3520 (34)	4380 (19)	-	3390 (10)	-	-
1323	UCD 1323	3830 (31)	-	-	3050 (19)	-	-
1325	UCD 1325	4230 (25)	4380 (19)	-	3120 (14)	-	-
1326	WWW BA4545	4140 (27)	4770 (15)	-	3420 (9)	2540 (11)	-
1346	APB E-1	3830 (31)	-	-	2410 (27)	-	-
1347	APB E-3	4030 (30)	-	-	2470 (26)	-	-
1348	UCD UYP 231	2880 (39)	-	-	-	-	-
1349	UCD UYP 213	4560 (17)	-	-	-	-	-
1350	UCD UYP 306	4250 (24)	-	-	-	-	-
1351	UCD UYP 210	5290 (3)	-	-	-	-	-
1352	UCD UYP 275	4600 (16)	-	-	-	-	-
1353	UCD UYP 3	5290 (3)	-	-	-	-	-
1354	UCD UYP 2	4420 (20)	-	-	-	-	-
1355	UCD K1-11C	2320 (40)	-	-	1490 (33)	-	-
1356	UCD K2-A	3110 (36)	-	-	1600 (32)	-	-
1357	UCD K3-4H	3270 (35)	-	-	2270 (29)	-	-
1358	UCD K11-B	3000 (38)	-	-	2260 (30)	-	-
1359	UCD K12-3J	3030 (37)	-	-	2220 (31)	-	-
1360	Butta 12-96	-	-	-	-	-	-
1361	UCD 11 MQ 12	-	-	-	-	-	-
Mean		4340	5130	5280	2960	2550	3350

Numbers in parentheses indicate relative rank.

If a variety was not grown (or there was no data for it) in every location of a region, no data is reported here to preserve accurate statistics. Individual results are available in the single location summaries.

2013 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
1274	UCD 4B	6RSF	UC 933/RSI 617//UC 1047	UCD
1278	UCD 10B	6RSF	STUC B52	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
1332	UCD 1332	6RSF-H	HY 31	UCD
1335	UCD 1335	2RSM	CB119/291B20-C323	UCD
1337	UCD 1337	6RSF	CREEL/UC960-24	UCD
1339	UCD 1339	6RSF	UC1099/UC1145	UCD
1341	UCD 1341	6RSF	CREEL/UC960-5	UCD
1342	UCD 1342	6RSF	CREEL/UC960-1	UCD
1362	UCD 1362	6RSF	Tango/Stander//Excel/3/STUC6/NZ706	UCD
1363	UCD 1363	6RSF	Tango/Stander//Excel/3/STUC6/NZ706	UCD
1364	UCD 1364	6RSF	Tango/Stander//Excel/3/STUC6/NZ706	UCD
1365	UCD 1365	6RSF	Tango/Stander//Excel/3/STUC6/NZ706	UCD
1366	UCD 1366	6RSF	Tango/Stander//Excel/3/STUC6/NZ706	UCD
1367	UCD 1367	6RSF	UC 1134//Madera/UC937	UCD
1368	UCD 1368	6RSF	UC 1134//Madera/UC937	UCD
1369	UCD 1369	6RSF	UC 1134//Madera/UC937	UCD
1370	UCD 1370	6RSF	UC1090/UC1145	UCD
1371	UCD 1371	6RSF	UC1090/UC1145	UCD
1372	UCD 1372	6RSF	UC1090/UC1145	UCD
1373	UCD 1373	6RSF	UC1090/UC1145	UCD
1374	UCD 1374	6RSF	UC1090/UC1145	UCD
1375	UCD 1375	6RSF	UC1090/UC1145	UCD
1376	UCD 1376	6RSF	Creel/UC960	UCD
1377	UCD 1377	6RSF	Creel/UC960	UCD

2013 Lassen Spring Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000	Plant Ht (in)
				Kernel Wt (g)	
<u>CULTIVARS</u>					
204	STEPTOE	3720 (1)	49.4	42.0	27
900	BARONESSE	3700 (2)	49.7	37.6	26
960	UC 960	3290 (17)	48.4	38.5	23
1010	MILLENNIUM	3640 (3)	50.3	38.8	25
1082	CONRAD	3080 (23)	52.5	37.5	25
1217	AC Metcalfe	3270 (19)	53.5	38.5	28
1297	CDC COPELAND	2760 (35)	50.6	36.1	25
1299	MERIT 57	3410 (10)	53.1	39.2	26
1300	PINNACLE	2880 (31)	54.6	46.6	25
1301	CELEBRATION	3460 (9)	52.1	35.0	31
1302	STELLAR-ND	2900 (30)	52.3	36.5	26
1344	QUEST	2410 (41)	52.5	35.8	30
1345	RASMUSSEN	3040 (24)	52.5	38.1	28
<u>ADVANCED LINES</u>					
1099	UCD-TL20	3150 (22)	46.1	30.7	25
1201	TLB 148	3400 (14)	45.1	37.5	26
1219	BZ502-265	3400 (12)	51.2	38.8	29
1274	UCD 4B	2660 (37)	42.9	32.1	25
1278	UCD 10B	3460 (7)	49.6	36.2	25
1292	UCD 1292	3010 (26)	50.1	36.4	26
1328	UCD 1328	2180 (43)	55.4	30.5	24
1329	UCD 1329	2540 (40)	55.0	32.4	25
1330	UCD 1330	2100 (44)	47.3	26.4	23
1332	UCD 1332	2980 (27)	53.5	32.4	24
1335	UCD 1335	2870 (32)	53.0	48.6	21
1337	UCD 1337	3570 (5)	50.1	33.3	26
1339	UCD 1339	2790 (33)	47.8	34.9	26
1341	UCD 1341	3510 (6)	44.5	31.8	25
1342	UCD 1342	2540 (39)	50.0	39.9	27
1362	UCD 1362	3410 (11)	48.9	32.0	33
1363	UCD 1363	3280 (18)	51.5	38.4	31
1364	UCD 1364	2920 (28)	45.5	31.7	33
1365	UCD 1365	3610 (4)	49.6	31.5	28
1366	UCD 1366	3350 (15)	52.0	37.4	31
1367	UCD 1367	3250 (20)	54.5	31.1	24
1368	UCD 1368	2910 (29)	58.3	34.1	27
1369	UCD 1369	2250 (42)	53.0	28.7	23
1370	UCD 1370	2750 (36)	47.0	34.6	27
1371	UCD 1371	3040 (25)	49.3	36.2	29
1372	UCD 1372	3460 (8)	51.2	39.3	26
1373	UCD 1373	2780 (34)	48.1	33.6	29
1374	UCD 1374	3240 (21)	50.1	38.5	26
1375	UCD 1375	2620 (38)	52.9	43.2	25
1376	UCD 1376	3340 (16)	51.9	39.2	23
1377	UCD 1377	3400 (13)	53.2	44.8	25
MEAN		3080	50.7	36.2	26
CV		16.3	3.3	7.2	8.9
LSD (.05)		810	3.4	5.3	5

Numbers in parentheses indicate relative rank in column.

2013 Tulelake Spring Barley

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Days To Heading From (3/1)	Lodging Harvest	Shatter	Bird Damage
<u>CULTIVARS</u>								
204	STEPTOE	6790 (10)	45.0	33	110	1.7	1.3	1.0
900	BARONESSE	6120 (26)	46.7	37	112	7.0	1.3	1.0
960	UC 960	6280 (23)	43.7	32	109	1.3	1.0	1.0
1010	MILLENNIUM	6590 (16)	45.7	35	109	1.3	1.0	1.0
1082	CONRAD	5780 (29)	46.9	37	112	8.0	1.7	1.0
1217	AC Metcalfe	5420 (35)	48.0	37	113	7.3	3.3	1.0
1297	CDC COPELAND	5590 (33)	48.0	40	111	7.3	3.0	1.0
1299	MERIT 57	4530 (40)	45.7	34	111	7.7	1.0	2.7
1300	PINNACLE	5650 (32)	47.4	38	109	5.7	1.3	2.0
1301	CELEBRATION	5040 (37)	45.1	37	108	7.0	1.3	1.0
1302	STELLAR-ND	4400 (42)	47.4	42	109	4.7	2.7	1.0
1344	QUEST	4480 (41)	45.9	40	110	6.7	1.7	1.3
1345	RASMUSSEN	5750 (30)	46.7	38	110	7.0	1.7	1.0
<u>ADVANCED LINES</u>								
1099	UCD-TL20	7090 (6)	43.1	35	112	1.3	1.0	1.0
1201	TLB 148	7290 (3)	36.7	38	111	1.7	1.0	1.0
1219	BZ502-265	6780 (11)	47.5	38	111	5.0	1.7	1.3
1274	UCD 4B	6540 (19)	42.9	36	120	1.0	1.0	1.0
1278	UCD 10B	6470 (21)	44.5	39	113	4.0	1.3	1.0
1292	UCD 1292	6170 (25)	44.8	37	110	2.7	1.0	1.0
1328	UCD 1328	5700 (31)	45.2	37	121	2.7	1.3	1.0
1329	UCD 1329	6770 (12)	41.5	35	116	4.0	1.3	1.0
1330	UCD 1330	6510 (20)	43.7	36	121	1.0	1.0	1.0
1332	UCD 1332	6660 (15)	44.3	33	114	1.7	1.0	1.0
1335	UCD 1335	7020 (7)	48.3	33	111	3.0	1.0	1.0
1337	UCD 1337	6320 (22)	44.9	35	110	3.3	1.0	1.0
1339	UCD 1339	7470 (2)	43.1	38	110	1.7	1.0	1.0
1341	UCD 1341	7290 (4)	42.3	34	111	2.3	1.0	1.0
1342	UCD 1342	6950 (8)	43.1	40	111	3.0	1.3	1.0
1362	UCD 1362	4360 (43)	42.4	38	117	8.0	1.0	1.0
1363	UCD 1363	5280 (36)	43.5	41	112	7.0	2.0	1.0
1364	UCD 1364	3580 (44)	44.0	39	122	7.0	1.0	1.0
1365	UCD 1365	7660 (1)	44.6	39	111	2.0	1.0	1.0
1366	UCD 1366	5800 (28)	44.6	37	110	6.7	1.0	1.0
1367	UCD 1367	6550 (18)	44.9	31	115	3.0	1.0	1.0
1368	UCD 1368	6550 (17)	43.2	37	119	3.3	1.3	1.0
1369	UCD 1369	6720 (13)	54.0	33	116	3.3	1.0	1.0
1370	UCD 1370	6950 (9)	43.8	42	113	2.0	1.0	1.3
1371	UCD 1371	5000 (38)	45.2	39	108	8.0	1.0	1.0
1372	UCD 1372	6720 (14)	44.2	38	110	3.7	1.0	1.0
1373	UCD 1373	4560 (39)	41.9	41	112	7.7	1.0	1.0
1374	UCD 1374	5540 (34)	42.9	38	109	8.0	1.0	1.0
1375	UCD 1375	6110 (27)	46.9	34	105	3.7	1.0	1.3
1376	UCD 1376	6200 (24)	46.5	34	109	6.3	1.0	1.0
1377	UCD 1377	7160 (5)	48.0	34	110	3.3	1.0	1.0
MEAN		6090	50.8	37	112	4.4	1.3	1.1
CV		8.6	7.2	6.4	1.5	23.8	50.2	44.3
LSD (.05)		850	ns	4	3	1.7	1.1	ns

2011-13 Intermountain Spring Barley Yield Summary

Entry	Name	2013 (2 Loc)	2012-13 (5 Loc/Yr)	2011-13 (8 Loc/Yr)
<u>CULTIVARS</u>				
204	STEPTOE	5250 (5)	5240 (15)	5520 (7)
900	BARONESSE	4910 (14)	4710 (21)	4870 (10)
960	UC 960	4780 (18)	5550 (8)	5610 (5)
1010	MILLENNIUM	5110 (8)	5650 (6)	5910 (4)
1082	CONRAD	4430 (27)	4790 (20)	4640 (11)
1217	AC Metcalfe	4350 (31)	4330 (26)	4340 (12)
1297	CDC COPELAND	4180 (36)	4290 (27)	-
1299	MERIT 57	3970 (38)	4220 (28)	-
1300	PINNACLE	4260 (34)	4590 (23)	-
1301	CELEBRATION	4250 (35)	5010 (19)	-
1302	STELLAR-ND	3650 (42)	4600 (22)	-
1344	QUEST	3440 (43)	4450 (25)	-
1345	RASMUSSEN	4390 (28)	5340 (14)	-
<u>ADVANCED LINES</u>				
1099	UCD-TL20	5120 (7)	5860 (5)	5940 (3)
1201	TLB 148	5350 (3)	6070 (3)	6210 (1)
1219	BZ502-265	5090 (9)	5140 (16)	4970 (9)
1274	UCD 4B	4600 (23)	5400 (12)	5520 (6)
1278	UCD 10B	4970 (11)	6080 (2)	6020 (2)
1292	UCD 1292	4590 (24)	5410 (11)	5210 (8)
1328	UCD 1328	3940 (39)	4510 (24)	-
1329	UCD 1329	4660 (22)	5380 (13)	-
1330	UCD 1330	4300 (32)	5060 (18)	-
1332	UCD 1332	4820 (17)	5450 (10)	-
1335	UCD 1335	4940 (13)	5490 (9)	-
1337	UCD 1337	4940 (12)	5620 (7)	-
1339	UCD 1339	5130 (6)	6160 (1)	-
1341	UCD 1341	5400 (2)	6060 (4)	-
1342	UCD 1342	4750 (20)	5120 (17)	-
1362	UCD 1362	3880 (40)	-	-
1363	UCD 1363	4280 (33)	-	-
1364	UCD 1364	3250 (44)	-	-
1365	UCD 1365	5640 (1)	-	-
1366	UCD 1366	4570 (25)	-	-
1367	UCD 1367	4900 (15)	-	-
1368	UCD 1368	4730 (21)	-	-
1369	UCD 1369	4480 (26)	-	-
1370	UCD 1370	4850 (16)	-	-
1371	UCD 1371	4020 (37)	-	-
1372	UCD 1372	5090 (10)	-	-
1373	UCD 1373	3670 (41)	-	-
1374	UCD 1374	4390 (29)	-	-
1375	UCD 1375	4370 (30)	-	-
1376	UCD 1376	4770 (19)	-	-
1377	UCD 1377	5280 (4)	-	-
MEAN		4580	5200	5380

2013 Western Regional Spring Barley Nursery (WRSBN) Entry List

Entry	Name	Parentage	Type	Source
1	Steptoe	CI 15229	6 row	WSU
2	Baronesse	PI 568246	2 row	WPB
3	Harrington		2 row	USDA-ARS
4	AC Metcalfe		2 row	USDA-ARS
5	2B09-3425	2B05-0550 / 2B99-2763-10	2 row	BARI
6	2B10-4162	MERIT 57 / 2B05-0712	2 row	BARI
7	2B10-4465	2B04-0291 / 2B05-0615	2 row	BARI
8	2B10-4480	2B04-0294 / 2B05-0676	2 row	BARI
9	2Ab07-X031098-31	2B97-4004/Newdale	2 row	USDA-ARS
10	2Ab09-X06F058HL-21	02HR-4590/CDC Fibar	2 row	USDA-ARS
11	2Ab07-X04M219-46	95SR316A/2B97-4004	2 row	USDA-ARS
12	2Ab08-X05M010-82	2B98-5312/98Ab11993	2 row	USDA-ARS
13	2Ab08-X04M282-48	2B98-5312/97Ab7973	2 row	USDA-ARS
14	2Ab08-X04M278-35	2B97-4004/97Ab6643	2 row	USDA-ARS
15	08ID2661	04lpa-10/Tetonia	2 row	USDA-ARS
16	MT090190		2 row	MSU
17	MT090180		2 row	MSU
18	MT100126		2 row	MSU
19	MT100120		2 row	MSU
20	2ND25276	ND20802/3/ND1922//ND19929/ND20177	2 row	NDSU
21	2ND27705	2ND24393/TR05285	2 row	NDSU
22	2ND28065	2ND21867/2ND24238	2 row	NDSU
23	UT6R2120-14		6 row	USU
24	UT2170-16		6 row	USU
25	X06G07-T43	Merlin/Baronesse*2//WA 9820-98/3/03WA-139.4	2 row	WSU
26	X05013-T1	Merlin/Baronesse*2//SH 97110	2 row	WSU
27	09WA-231.5	02WNZ-1015/YU-501-385N	2 row	WSU
28	09WA-203.26	YU501-385/02WNZ-1100	2 row	WSU
29	09WA-228.13	02WNZ-1100/YU501-385	2 row	WSU
30	09WA-203.24	YU501-385/02WNZ-1100	2 row	WSU
31	09WA-249.9	NZDK 00-131/98Ab11993//Baronesse/WA 7478-97	2 row	WSU

31 Entries

2013 Tulelake Western Regional Spring Barley Nursery (WRSBN)

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000	Plant Ht (in)	Days To	Lodging Harvest	Bird Damage
				Kernel Wt (g)		Heading From (3/1)		
1	Step toe	5600 (7)	50.5	43.2	32	110	2.3	1.3
2	Baronesse	5390 (9)	53.4	40.8	33	111	7.0	3.0
3	Harrington	5120 (11)	52.5	41.4	38	112	6.3	2.7
4	AC Metcalfe	4360 (24)	51.0	35.9	37	110	7.0	3.3
5	2B09-3425	5600 (6)	51.6	36.8	34	111	6.7	3.0
6	2B10-4162	4370 (23)	52.6	37.5	36	111	6.7	3.3
7	2B10-4465	4080 (28)	52.4	37.8	35	110	6.0	5.7
8	2B10-4480	4590 (18)	51.2	37.7	37	110	7.0	3.7
9	2Ab07-X031098-31	5900 (2)	55.7	39.5	35	111	6.7	2.7
10	2Ab09-X06F058HL-21	4260 (25)	53.4	35.2	36	112	6.7	2.7
11	2Ab07-X04M219-46	4130 (27)	51.0	34.9	38	115	7.7	2.7
12	2Ab08-X05M010-82	4820 (15)	52.4	38.3	36	112	7.3	3.0
13	2Ab08-X04M282-48	5250 (10)	52.8	38.6	37	111	6.3	2.3
14	2Ab08-X04M278-35	4010 (30)	51.8	39.0	33	111	7.3	3.0
15	08ID2661	5010 (14)	53.3	44.1	36	117	5.7	3.0
16	MT090190	3850 (31)	51.8	39.6	40	112	6.0	5.3
17	MT090180	4500 (20)	53.0	41.2	38	112	4.0	4.0
18	MT100126	4200 (26)	51.3	38.2	41	114	5.7	4.0
19	MT100120	4410 (21)	53.3	42.6	40	112	5.0	4.7
20	2ND25276	4370 (22)	51.5	41.4	38	110	5.3	3.0
21	2ND27705	4030 (29)	51.6	38.7	38	111	6.7	3.3
22	2ND28065	5480 (8)	53.9	40.2	38	110	6.7	3.7
23	UT6R2120-14	5810 (4)	50.4	36.8	32	109	6.7	2.0
24	UT2170-16	4730 (16)	48.1	27.4	36	110	7.7	1.3
25	X06G07-T43	6030 (1)	57.0	42.0	31	112	5.7	2.7
26	X05013-T1	5030 (13)	58.7	35.8	37	112	6.0	3.7
27	09WA-231.5	5690 (5)	52.3	38.3	33	111	7.0	3.0
28	09WA-203.26	4520 (19)	53.2	40.0	38	112	6.0	5.7
29	09WA-228.13	5050 (12)	54.0	42.7	36	111	6.0	2.7
30	09WA-203.24	5880 (3)	54.4	43.8	35	110	5.7	3.3
31	09WA-249.9	4670 (17)	51.2	38.5	36	110	6.3	4.7
MEAN		4860	52.6	39.0	36	111	6.2	3.3
CV		16.4	3.2	7.6	7.3	1.3	17.9	44.6
LSD (.05)		1300	3.4	6.0	4	2	1.8	ns

Rating scale for lodging and bird damage (percentage of plants (or seeds) 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%.

Numbers in parentheses indicate relative rank in column.