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2009 REGIONAL BARLEY, COMMON WHEAT AND TRITICALE, AND DURUM WHEAT PERFORMANCE TESTS IN CALIFORNIA¹

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University of California Cooperative Extension cereal evaluation tests were conducted in the Sacramento, San Joaquin, and Imperial Valleys; the intermountain valleys of northern California and in the south central coastal region in 2009. 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 (18 entries) was evaluated at 6 sites and spring-sown spring barley (32 entries) was evaluated at three sites. Fall-sown winter wheat (40 entries) was evaluated at two sites; fall-sown spring wheat and triticale (39 entries total), at nine sites (not all entries were evaluated at all sites); and spring-sown spring wheat (32 entries), at three sites. Durum wheat (35 entries – 35 entries at Imperial and 29 entries at the other sites) was evaluated at 5 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 88 to 139 lbs/acre for common wheat, and from 113 to 180 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 126 lbs/acre for wheat and barley, and 78 to 107 lbs/acre for triticale).

Randomized complete block designs with four replications were used for all tests except the fall-sown winter wheat and spring-sown spring wheat 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 2009 consisted of 702,000 acres of wheat (including 176,000 acres of durum), 70,000 acres of barley, and 240,000 acres of oat

(http://www.nass.usda.gov/QuickStats/Create_Federal_All.jsp). Triticale acreage, mostly for green-chop

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.

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for dairies in the San Joaquin Valley, was estimated at 150,000 acres. Forage wheat varieties for green-chop for dairies were planted in 234,000 acres in the Central Valley (mostly in the San Joaquin Valley, 192,000 acres). California's wheat cultivar survey showed that the stripe rust resistant forage cultivars PR 1404 and Ultra and the milling varieties Cal Rojo and Blanca Royale had the highest acreages statewide. For durum wheat, the leading cultivars were Orita, Fortissimo, Kronos and Desert King.

In the Sacramento Valley, temperatures remained fairly cool throughout the entire 2009 season. In February/early March, the Sacramento Valley received about 6 inches of rain, followed by almost no rainfall for the entire month of March. Low rainfall led to very little stripe rust disease pressure in the area during the usual infection time. The lower rainfall also led to lower yield production in rainfed environments. Later in the growing season, there was one inch of rain in early April and one in May. These late rains contributed to a small amount of leaf rust in the area, but the arrival of the disease was too late to produce a significant damage to the crops.

The San Joaquin Valley saw much less rain in the early season, and as a result, there was drought stress in the rainfed locations. Overall disease pressure was very low throughout California. Overall yield production was slightly lower than last year. Preliminary results from Xianming Chen for 2009 rust samples submitted from California showed predominance of races PST-98 and PST-102 in California (in 2008 the predominant ones were PST-101 and PST-129). Race PST-129 virulent on *Yr1*, which was first identified in California in 2007 and only detected in California in 2007 and 2008, became predominant in the PNW, especially in Oregon. *Yr10* virulent races such as PST-114 and PST-116 were still restricted to the PNW and were not detected in California.

BARLEY

Fall-sown spring barley. The fall-sown spring barley test contained 18 entries (7 cultivars and 11 advanced lines). This test was planted in 6 locations (2 irrigated and 4 rainfed). Entries in the test, type of barley, their backgrounds, and seed sources are shown in Table 2. Yield and agronomic performance data are given in Tables 3-9. Low rainfall between March and May led to very high levels of drought stress in San Luis Obispo and Tulare (both rainfed). The Sacramento Valley rainfed sites (Glenn and Tehama) benefited from the early rains in February, so yield production was not as low. In Tehama, several of the plots suffered damage from wild boar. Yields were estimated to account for the damage. Net Blotch was found at most of the Sacramento Valley sites, but no damage to yield occurred. At the two irrigated sites, (Davis and Fresno) stripe rust was moderately severe on Max, a known susceptible line. Average yields ranged from 480 lb/acre at the Tulare rainfed site to 6,650 lb/acre at the Fresno site. In 2009, "23 IBYT 7" and UCD C147 were the highest yielding lines in the Sacramento Valley and in the rainfed sites; Max and UCD C135 were the highest in the San Joaquin Valley. In the three year period 2007-09, UCD C135 and UCD C147 were the highest yielding lines in the Sacramento and San Joaquin Valleys, and UCD C147, UCD C135, UC 933, 23 IBYT 7, and UCD C140 yielded the best in rainfed sites.

Spring-sown spring barley. The intermountain spring barley test contained 32 entries (13 cultivars and 19 advanced lines). This test was planted in 3 locations. Entries in the test, type of barley, their backgrounds, and seed sources are shown in Table 10. Yield and agronomic performance data are given in Tables 11-13. The trial in Siskiyou was vandalized and was not harvested. Dry conditions at the Lassen site created poor stands, low yields and zero disease pressure. Tulelake was hit by a storm in early July that produced moderate rainfall and extreme winds which led to a high amount of lodging. Stripe rust was seen in Tulelake, but the pressure was small and the effects not significant. Average yields ranged from 2,730 lb/acre in Lassen to 5,990 lb/acre in Tulelake. TLB 148 and UC 960 were the highest yielding lines in 2009 and in the three year period 2007-09.

WHEAT

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). The test contained 40 entries (19 cultivars and 21 advanced lines), and was evaluated at two sites, Montague (Siskiyou county) and Tulelake (Modoc county) (Tables 15-18). The Siskiyou site matured much earlier than the Tulelake site, due to differences in irrigation. The shorter season and weed competition in Siskiyou resulted in lower yields. There was no disease noted in either location. In Siskiyou, Masami and Coda had moderate lodging, and ORCF-103 had severe lodging. Average yields ranged from 5,530 lb/acre in Siskiyou to 7,810 lb/acre in Tulelake. In Siskiyou, Westbred 528 showed the highest yield, but the top 6 lines were all very close in yield. In Tulelake, OR2060431 and Tubbs had the highest yields. Overall in 2009, Tubbs showed the highest yield, closely followed by OR2050853, Xerpha, and OR2060324.

Fall-sown spring wheat and triticale. The fall-sown spring wheat and triticale test contained 39 entries (18 wheat cultivars, 16 advanced wheat lines, 1 triticale cultivars and 4 advanced triticale lines). Entries in the test, type, background, and seed sources are shown in Table 18. Yield, agronomic performance, and quality data are given in Tables 19-32. This test was grown in 9 sites, 7 irrigated and 2 rainfed. Not all entries were grown in all locations. There was a significant amount of rain in February in the Sacramento Valley sites (Davis, Colusa, Delta, and Glenn) that was not observed in the San Joaquin Valley sites (Kings, Kern, Fresno, and Tulare) or the Imperial Valley. The lack of rainfall in the San Joaquin Valley led to severe drought stress and very low stand in the Tulare rainfed site which, in turn, led to reduced yields. The Glenn rainfed trial benefited from February rains, and was able to produce reasonable yields. In the 2009 season, very little stripe rust was reported, due mainly to dry conditions during key infection times. A few varieties did show moderate/high stripe rust infection this year, including Anza, Yecora Rojo, WWW BR2306, and WWW IMI5345-4. At UC Davis, 3 more varieties showed stripe rust infection: Blanca Grande, Blanca Royale, and Joaquin (Table 28).

At UC Davis, three separate fertilizations were applied during the growing season, at early tillering, late jointing, and anthesis, resulting in higher than average yields for the Sacramento Valley. In the Sacramento/San Joaquin Delta trial, there was gopher damage on 3 plots. In Colusa, there was more moisture than in any other location, which led to a moderate amount of septoria tritici blotch on most plots. In the Kings county trial there was a problem with the fertilizer rate for the first 3 passes, and as a result, the first 3 passes had higher yields, and a correction factor was applied to account for this error.

Grain protein content of samples was measured from three sites in the Sacramento Valley and three sites in the San Joaquin Valley (Table 29). Average grain protein content ranged from 11.2% to 15.0% for samples from the Sacramento Valley and from 11.3% to 14.7% for samples from the San Joaquin Valley. RSI 06W30002 had the highest grain protein content overall. Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from the Kings site (Table 30) and Davis site (Table 31) showed that Yecora Rojo, Express, Blanca Grande, Patwin, Mika, Espresso, Christallo, Paloma, WB DA905-10, WB SJ905-162W, RSI 06W30002, and APB W11-6 all produced high loaf volume and excellent overall bread score.

In 2009, average grain yields ranged from 450 lb/acre in the Tulare rainfed site to 6,300 lb/acre in Fresno. In the Sacramento Valley Blanca Fuerte and WB DA905-10 were the highest yielding wheat varieties and Trical Brand 110 was the highest yielding triticale. In the San Joaquin Valley Lassik and Redwing were the highest yielding wheat varieties and Trical Brand 110 was the highest yielding triticale. In the Imperial Valley Christallo and Patwin were the highest yielding varieties. In the rainfed trials Blanca Fuerte and RSI 01W20153 were the highest yielding wheat varieties and Trical Brand 98 was the highest yielding triticale (Table 32).

When the three year period 2007-09 is considered, in the Sacramento Valley Blanca Fuerte was the highest yielding wheat variety and Trical Brand 118 was the highest yielding triticale variety. In the San Joaquin Valley Redwing was the highest yielding wheat variety and Trical Brand 118 was the highest

yielding triticale variety. In the Imperial Valley Christallo and Patwin were the highest yielding wheat varieties and Trical Brand 98 was the highest yielding triticale variety. In the rainfed tests Christallo was the highest yielding wheat variety and Trical Brand 118 was the highest yielding triticale (Table 32).

Spring-sown spring wheat. The spring-sown spring wheat test that was evaluated, the Oregon Spring Wheat Elite Yield Trial, was provided by Mike Flowers, Extension Specialist, Oregon State University. The test contained 32 entries (16 cultivars and 16 advanced lines), and was evaluated at three sites (Tables 33-36). The trial in Siskiyou was vandalized and was not harvested. Dry conditions at the site in Lassen created poor stands, low yields and zero disease pressure. Tulelake was hit by a storm in early July that produced moderate rainfall and extreme winds which led to a high amount of lodging on about half of the entries. Stripe rust was seen in Tulelake at low levels and had limited effect on yields. Average yields ranged from 2,850 lb/acre in Lassen to 7,370 lb/acre in Tulelake. IDO377S was the highest yielder in Lassen, and IDO 559 was the highest yielder in Tulelake and overall.

Durum wheat. The durum wheat test contained 35 entries (14 cultivars and 21 advanced lines). Entries in the test, their backgrounds, and seed sources are shown in Table 38. Yield, agronomic performance, and quality data are given in Tables 39-48. In the 2009 season, very little stripe rust was reported, due mainly to dry conditions during key infection times. At UC Davis, the three fertilizations resulted in higher than average lodging. Grain protein content of samples from four sites in the Central Valley and the Imperial site was measured and are reported in Table 44. Average grain protein content ranged from 13.5% to 16.4% for samples from the Central Valley, and from 12.2% to 16.2% for samples from the Imperial site.

Quality evaluations (conducted by the California Wheat Commission laboratory) of samples from the Kings (Table 45) Imperial (Table 46) and UC Davis (Table 47) sites showed that samples of 19 entries from the Imperial Site and samples of 2 entries from the Kings site had excellent pasta color scores.

Average grain yields ranged from 2,650 lb/acre at Kings to 7,480 lb/acre at Imperial Valley. UCD1629 (08201/21) was the highest yielding variety in the San Joaquin Valley while UCD 1585 (06222/53 tentative name Tipai) was the highest yielding variety in the Imperial Valley. Among the varieties that were tested during the last three years, Sargolla, Platinum and Desert king were the highest yielding variety in the San Joaquin Valley, and Maestrone, Havasu and Saragolla were the highest yielding varieties in the Imperial Valley.

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TABLE 1. SITE CHARACTERISTICS FOR UC REGIONAL CEREAL EVALUATION TESTS, 2009

LOCATION	TESTS	SOWING DATE	SOIL TYPE	2008 CROP	FERTILIZATION	IRRIGATION	RAIN (YEAR) (in)
Colusa Co., Erdman Farm, Grimes	Wheat	11/14/08	Scribner silt loam	Fallow	80# 11-52-0 with seed 120-125# N (NH ₃)	Furrow 1X (6" total)	15"
Fresno Co., UC Westside REC, Five Points	Wheat Durum Barley	11/19/08	Panoche Clay loam	Cotton	80# 11-52-0 with seed 160# N preplant Topdress: 200# N (urea); 30# N (foliar - UN-32)	Flood 5X (13.7" total)	4"
Glenn Co. Willows	Wheat Barley	11/13/08	Nacimientto clay Altamont clay	Fallow	80# 11-52-0 with seed	None	12"
Imperial Co., UC Desert REC, El Centro	Wheat Durum	12/12/08	Imperial-Glenbar silty clay loam	Sudangrass	100# N (urea), 60# P ₂ O ₅ preplant, 220# N (anhydrous ammonia in 3 irrigations)	Flood 5X (40" total)	2.2"
Kern Co., Shafter REC Shafter	Wheat Durum	12/8/08	Clay	Cotton	80# 11-52-0 with seed 200# N (foliar - UN-32)	Flood: 7X (50" total)	4"
Kings Co., Boyets Farms Corcoran,	Wheat Durum	11/20/08	Tulare clay	Corn	50#N preplant 80# 11-52-0 with seed	Flood: 4X (24" total)	5"
San Joaquin Co, Victoria Island Farms Sac-San Joaquin Delta (Stockton)	Wheat	12/5/08	Egbert muck	Tomatoes	150# 11-52-0 at planting ; 30# Urea topdress 80# 11-52-0 with seed	Furrow 2X (12" total)	12"
San Luis Obispo Co., White Ranch Shandon	Barley	11/20/08	Pico-San Emigdio-Sorrento loamy sand to fine sand	Barley	60# 11-52-0 with seed	None	2"
Siskiyou Co., Peters Ranch Montague	Wheat	10/28/08	Clay loam	Fallow	128# NH ₃ ; 105# N 80# 11-52-0 with seed	Flood 2X (16" total)	4"
Lassen Co., Sierra-Cascade Nursery Susanville	Wheat Barley	4/17/08	Sandy loam	Strawberries	400# ammonium sulfate preplant	Sprinkler 4X (16" total)	2"
Siskiyou Co., UC Intermountain REC, Tulelake	Wheat	10/29/08	Tule basin mucky silty clay loam	Sudangrass	600# 16-20-20 preplant	Sprinkler (10.5" total)	4"
Siskiyou Co., UC Intermountain REC, Tulelake	Barley Wheat	4/18/08	Tule basin mucky silty clay loam	Sudangrass	450# 16-20-20 preplant (barley) 600# 16-20-20 preplant (wheat)	Sprinkler: Barley 10.5" total Sprinkler: Wheat 10.5" total	4"
Tehama Co., Endres Ranch Corning	Barley	11/13/08	Nacimientto/Altamont complex	Fallow	80# 11-52-0 with seed 50# N (aqua) with 2% sulfur preplant	None	17"
Tulare Co., Changala Farms Ducor	Wheat Barley	11/19/08	Centerville clay	Fallow	60# 11-52-0 with seed	None	4"
Yolo Co., UC Davis Agronomy Farm Davis	Wheat Durum Barley	11/17/08	Yolo loam	Corn	60#N (urea) with 1% sulfur preplant 80# 11-52-0 with seed Topdress (at tillering): 60#N (wheat), 50# N (barley) Topdress (at jointing): 50#N (wheat) Topdress at anthesis (wheat): 40#N (urea)	Flood: Wheat 1X (6" total) Barley 1X (6" total)	14"

TABLE 2. 2009 UC REGIONAL BARLEY ENTRY LIST

Entry Name	Type	Parentage	Source
CULTIVARS			
603 UC 603	6RSF	(((Marie*LU)*TRL)*BR)*(YDRBR*YDMRBR)	UC
816 MAX	6RSF	CCXXXII SEL (BA7024)	WWW
933 UC 933	6RSF	Sma1/SB401/3/Gus/KBY//Sma1	UC
951 MELTAN	2RSF		ADAMS
969 UC 969	6RSF	SMA1/SB401/3/UC337	UC
1047 ISHI	6RSF	F6 UC 828/UC 960	UC
1134 TAMALPAIS	6RS(N)	F7 CMB 91A-1192-AL/UC 960	UC
ADVANCED LINES			
1095 23 IBYT 7	6RSF	Egypt4/Teran78//P.Sto/3/Quina	CIMMYT/ICARDA
1115 UCD C135	6RSF	F7 UC 933/RSI 32306	UC
1116 UCD C140	6RSF	F7 UC 933/RSI 32306	UC
1118 UCD C147	6RSF	F7 Madera/UC 937	UC
1231 UCD 08YP 111	6RSF	F6 23IBYT7//UC933/UC1047	UC
1232 UCD 08YP 301	6RSF	F6 RSI729//UC 1047	UC
1233 UCD 08YP 244	6RSF	F6 UC 933/UC 1047	UC
1234 UCD 08YP 247	6RSF	F6 UC 933/UC 1047	UC
1235 UCD 08YP 254	6RSF	F6 UC 933/UC 1047	UC
1236 UCD 08YP 258	6RSF	F6 UC 933/UC 1047	UC
1237 WWW BA4513	6RSF	MSFRS Short Straw Barley Population	WWW

18 ENTRIES

TYPE: 6RSF = 6-ROW SPRING FEED; 2RSF = 2-ROW SPRING FEED; 2RS(N): NAKED 2-ROW SPRING;
6RS(N): NAKED 6-ROW SPRING; 6RSM = 6-ROW SPRING MALT;
6RWF = 6-ROW WINTER FEED; 6RW(H) = 6-ROW WINTER HOODED.

SOURCE: ADAMS = ADAMS GRAIN CO., CIMMYT-ICARDA, OSU = OREGON STATE UNIVERSITY;
UA = UNIVERSITY OF ARIZONA; UC = UNIVERSITY OF CALIFORNIA; WWW - WORLD WIDE WHEAT

Table 03. 2009 UCD BARLEY TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Powdery Mildew	Net Blotch	Leaf Rust	Stripe Rust	Shatter
<u>CULTIVARS</u>										
603	UC 603	5310 (5)	51.0	35	2.0	1.3	4.5	1.3	1.3	1.0
816	MAX	3110 (18)	48.9	27	2.5	1.0	5.3	1.0	6.8	1.0
933	UC 933	4590 (13)	51.0	33	5.3	1.0	2.3	1.5	1.5	1.0
951	MELTAN	3450 (17)	54.0	28	4.3	1.0	6.3	1.0	2.5	1.0
969	UC 969	4270 (15)	53.1	36	3.5	1.0	2.8	1.8	1.5	1.3
1047	ISHI	4610 (12)	49.4	29	3.5	1.0	3.5	1.0	2.0	1.0
1134	TAMALPAIS	4810 (10)	57.4	27	3.5	1.8	2.0	1.0	1.3	1.0
<u>ADVANCED LINES</u>										
1095	23 IBYT 7	5550 (1)	50.7	35	5.0	1.0	3.8	1.0	1.5	1.0
1115	UCD C135	5450 (3)	51.4	29	4.8	2.0	3.5	1.8	1.0	1.0
1116	UCD C140	4940 (8)	50.4	32	6.5	1.0	2.0	1.3	1.0	1.0
1118	UCD C147	5480 (2)	50.1	34	3.8	2.0	2.8	1.8	1.3	1.0
1231	UCD 08YP 111	5320 (4)	51.6	34	1.5	1.3	3.0	1.0	2.5	1.0
1232	UCD 08YP 301	4800 (11)	50.8	30	1.8	1.0	2.5	1.3	1.0	1.0
1233	UCD 08YP 244	5000 (7)	49.8	31	4.0	1.0	4.8	1.3	2.3	1.0
1234	UCD 08YP 247	5190 (6)	49.4	36	2.8	3.3	4.0	1.0	2.8	1.0
1235	UCD 08YP 254	4810 (9)	51.1	34	4.8	1.8	4.5	1.3	2.3	1.0
1236	UCD 08YP 258	4370 (14)	47.8	31	4.3	1.0	5.8	1.3	2.5	1.0
1237	WWW BA4513	3660 (16)	51.8	34	4.3	4.3	4.8	2.0	2.5	1.0
	MEAN	4710	51.1	32	3.8	1.5	3.8	1.3	2.1	1.0
	CV	10.7	2.3	7.1	47.7	56.7	31.8	42.4	39.1	11.6
	LSD (.05)	720	2.5	5.0	2.6	1.2	1.7	ns	1.1	ns

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.

TABLE 4. 2009 FRESNO BARLEY TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Septoria	Net Blotch	Stripe Rust	Shatter
<u>CULTIVARS</u>									
603	UC 603	6370 (14)	52.6	40	1.0	1.0	1.3	1.0	1.0
816	MAX	7510 (1)	52.9	30	1.0	1.0	1.0	4.0	1.0
933	UC 933	6110 (16)	51.6	33	1.0	1.0	1.0	1.0	1.0
951	MELTAN	6230 (15)	56.4	30	1.0	1.0	1.0	1.0	1.0
969	UC 969	5870 (18)	54.6	39	1.0	1.0	1.5	1.0	2.3
1047	ISHI	6870 (6)	50.8	33	1.3	1.0	1.5	1.0	1.0
1134	TAMALPAIS	6020 (17)	59.9	33	1.0	1.3	1.5	1.5	1.0
<u>ADVANCED LINES</u>									
1095	23 IBYT 7	6660 (10)	50.6	32	1.0	1.0	2.0	1.0	1.0
1115	UCD C135	7290 (2)	51.5	34	1.5	1.0	2.0	1.0	1.0
1116	UCD C140	6720 (8)	51.9	31	1.0	1.3	2.0	1.0	1.0
1118	UCD C147	7030 (3)	51.0	32	1.5	1.0	1.0	1.0	1.0
1231	UCD 08YP 111	6990 (4)	51.8	36	1.0	1.0	1.0	1.0	1.0
1232	UCD 08YP 301	6920 (5)	51.6	33	1.3	1.0	1.8	1.0	1.0
1233	UCD 08YP 244	6440 (12)	50.6	37	1.0	1.0	1.0	1.3	1.0
1234	UCD 08YP 247	6420 (13)	51.5	35	1.0	1.0	1.3	1.0	1.0
1235	UCD 08YP 254	6670 (9)	50.9	34	2.0	1.0	1.0	1.3	1.0
1236	UCD 08YP 258	6830 (7)	51.2	35	1.0	1.0	1.0	1.8	1.0
1237	WWW BA4513	6660 (11)	52.6	35	1.0	1.0	2.0	1.3	1.0
	MEAN	6650	52.4	34	1.1	1.0	1.4	1.3	1.1
	CV	8.2	2.1	6.1	32.3	15.7	54.1	47.8	11
	LSD (.05)	770	2.3	3	0.5	ns	ns	0.9	0.2

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.

Table 05. 2009 TEHAMA RAINFED BARLEY TEST

Entry	Name	Yield (lbs/acre)	Plant Ht (in)	BYDV	Net Blotch	Boar Damage
<u>CULTIVARS</u>						
603	UC 603	3630 (13)	28	1.0	2.0	8.0
816	MAX	3290 (17)	23	1.3	3.5	7.8
933	UC 933	3730 (10)	27	1.0	1.8	1.5
951	MELTAN	2090 (18)	25	2.8	2.3	4.5
969	UC 969	3450 (15)	29	1.3	2.0	8.0
1047	ISHI	3900 (9)	26	1.0	1.8	1.0
1134	TAMALPAIS	4450 (2)	26	1.0	1.5	1.0
<u>ADVANCED LINES</u>						
1095	23 IBYT 7	4340 (3)	25	1.0	2.5	8.0
1115	UCD C135	3950 (8)	26	1.0	1.8	5.8
1116	UCD C140	4260 (4)	29	1.0	1.5	1.0
1118	UCD C147	4620 (1)	26	1.3	1.3	5.8
1231	UCD 08YP 111	3460 (14)	31	1.0	2.3	1.0
1232	UCD 08YP 301	3660 (11)	26	1.5	2.0	1.0
1233	UCD 08YP 244	3320 (16)	29	1.0	2.0	1.0
1234	UCD 08YP 247	4020 (7)	30	1.0	2.0	1.0
1235	UCD 08YP 254	4150 (6)	27	1.0	2.0	1.0
1236	UCD 08YP 258	4220 (5)	28	1.0	2.0	1.0
1237	WWW BA4513	3650 (12)	26	1.0	1.8	1.3
	MEAN	3790	27	1.2	2.0	3.3
	CV	32.4	9.5	22.3	28.0	30.6
	LSD (.05)	ns	ns	0.4	0.8	1.4

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%.

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

Numbers in parentheses indicate relative rank in column.

Table 06. 2009 GLENN RAINFED BARLEY TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Net Blotch
<u>CULTIVARS</u>					
603	UC 603	3820 (15)	48.9	29	1.0
816	MAX	3460 (18)	48.8	19	1.0
933	UC 933	4570 (2)	45.4	25	1.5
951	MELTAN	4270 (7)	52.0	23	1.3
969	UC 969	3630 (17)	51.4	27	1.0
1047	ISHI	4270 (8)	43.5	24	1.0
1134	TAMALPAIS	3910 (14)	46.1	26	1.0
<u>ADVANCED LINES</u>					
1095	23 IBYT 7	4570 (3)	45.0	26	1.3
1115	UCD C135	4160 (10)	47.6	20	1.0
1116	UCD C140	3960 (12)	45.8	23	1.3
1118	UCD C147	4860 (1)	46.9	25	1.0
1231	UCD 08YP 111	4440 (6)	57.1	28	1.0
1232	UCD 08YP 301	4490 (4)	46.2	22	2.5
1233	UCD 08YP 244	3770 (16)	43.6	23	1.0
1234	UCD 08YP 247	3930 (13)	44.8	26	1.0
1235	UCD 08YP 254	4220 (9)	44.9	24	1.0
1236	UCD 08YP 258	4470 (5)	43.1	26	1.0
1237	WWW BA4513	4150 (11)	45.7	24	1.0
	MEAN	4160	47	24	1.2
	CV	12	9.1	9.0	30.0
	LSD (.05)	710	ns	5.0	0.5

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.

Table 07. 2009 SAN LUIS OBISPO RAINFED BARLEY TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	BYDV	Net Blotch
<u>CULTIVARS</u>					
603	UC 603	890 (11)	47.1	1.0	1.5
816	MAX	360 (18)	48.2	1.0	1.0
933	UC 933	1070 (5)	47.0	1.8	1.5
951	MELTAN	630 (16)	51.5	1.3	1.0
969	UC 969	1200 (3)	48.3	3.5	1.0
1047	ISHI	890 (10)	44.9	1.0	1.3
1134	TAMALPAIS	770 (12)	58.2	1.0	2.3
<u>ADVANCED LINES</u>					
1095	23 IBYT 7	1090 (4)	45.2	1.5	1.3
1115	UCD C135	930 (9)	46.5	1.0	1.3
1116	UCD C140	1250 (2)	47.5	1.0	1.5
1118	UCD C147	1060 (7)	45.8	1.8	1.0
1231	UCD 08YP 111	980 (8)	44.1	1.0	1.0
1232	UCD 08YP 301	1320 (1)	46.6	1.5	2.8
1233	UCD 08YP 244	730 (13)	44.1	1.0	1.0
1234	UCD 08YP 247	710 (15)	43.4	1.0	1.3
1235	UCD 08YP 254	1070 (6)	45.4	1.3	1.3
1236	UCD 08YP 258	710 (14)	44.3	1.0	1.0
1237	WWW BA4513	600 (17)	48.0	1.0	1.0
	MEAN	900	47.0	1.3	1.3
	CV	28.3	1.8	38.8	31.6
	LSD (.05)	360	1.8	0.7	0.6

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

Table 08. 2009 TULARE RAINFED BARLEY TEST

Entry	Name	Yield (lbs/acre)	Plant Ht (in)
<u>CULTIVARS</u>			
603	UC 603	290 (12)	15
816	MAX	70 (18)	6
933	UC 933	1130 (1)	20
951	MELTAN	570 (7)	12
969	UC 969	800 (4)	18
1047	ISHI	370 (9)	11
1134	TAMALPAIS	330 (11)	14
<u>ADVANCED LINES</u>			
1095	23 IBYT 7	650 (5)	13
1115	UCD C135	540 (8)	11
1116	UCD C140	600 (6)	13
1118	UCD C147	1060 (2)	19
1231	UCD 08YP 111	340 (10)	11
1232	UCD 08YP 301	890 (3)	15
1233	UCD 08YP 244	240 (14)	10
1234	UCD 08YP 247	120 (17)	6
1235	UCD 08YP 254	260 (13)	11
1236	UCD 08YP 258	180 (16)	9
1237	WWW BA4513	190 (15)	10
	MEAN	480	12
	CV	58.7	30.3
	LSD (.05)	400	ns

Numbers in parentheses indicate relative rank in column.

Table 9. 2009 AND 2007-09 BARLEY YIELD SUMMARY (LBS/ACRE)

Entry	Name	Sacramento Valley			San Joaquin Valley			Rainfed Tests		
		2009 (1 Loc)	2008-09 (2 Loc/Yr)	2007-09 (3 Loc/Yr)	2009 (1 Loc)	2008-09 (2 Loc/Yr)	2007-09 (3 Loc/Yr)	2009 (4 Loc)	2008-09 (7 Loc/Yr)	2007-09 (12 Loc/Yr)
CULTIVARS										
603	UC 603	5310 (5)	5720 (8)	5540 (8)	6370 (14)	6160 (7)	5400 (9)	2160 (14)	2110 (7)	1640 (9)
816	MAX	3110 (18)	4590 (9)	-	7510 (1)	7580 (1)	-	1790 (18)	1520 (11)	-
933	UC 933	4590 (13)	6280 (4)	6510 (3)	6110 (16)	5950 (8)	6410 (6)	2630 (3)	2380 (3)	1940 (3)
951	MELTAN	3450 (17)	3810 (10)	3960 (10)	6230 (15)	5460 (10)	4660 (10)	1890 (17)	2080 (9)	1780 (6)
969	UC 969	4270 (15)	3450 (11)	4120 (9)	5870 (18)	5050 (11)	5720 (7)	2270 (12)	2190 (6)	1660 (8)
1047	ISHI	4610 (12)	5730 (7)	6120 (6)	6870 (6)	6930 (3)	7080 (3)	2360 (10)	2100 (8)	1740 (7)
1134	TAMALPAIS	4810 (10)	6040 (6)	5960 (7)	6020 (17)	5590 (9)	5660 (8)	2370 (9)	1890 (10)	1630 (10)
ADVANCED LINES										
1095	23 IBYT 7	5550 (1)	6190 (5)	6410 (5)	6660 (10)	6350 (5)	6680 (5)	2660 (2)	2410 (2)	1940 (4)
1115	UCD C135	5450 (3)	6800 (1)	6890 (1)	7290 (2)	7450 (2)	7350 (1)	2400 (8)	2200 (5)	1940 (2)
1116	UCD C140	4940 (8)	6350 (3)	6490 (4)	6720 (8)	6300 (6)	6720 (4)	2520 (5)	2310 (4)	1920 (5)
1118	UCD C147	5480 (2)	6620 (2)	6820 (2)	7030 (3)	6720 (4)	7310 (2)	2900 (1)	2430 (1)	2100 (1)
1231	UCD 08YP 111	5320 (4)	-	-	6990 (4)	-	-	2300 (11)	-	-
1232	UCD 08YP 301	4800 (11)	-	-	6920 (5)	-	-	2590 (4)	-	-
1233	UCD 08YP 244	5000 (7)	-	-	6440 (12)	-	-	2020 (16)	-	-
1234	UCD 08YP 247	5190 (6)	-	-	6420 (13)	-	-	2190 (13)	-	-
1235	UCD 08YP 254	4810 (9)	-	-	6670 (9)	-	-	2420 (6)	-	-
1236	UCD 08YP 258	4370 (14)	-	-	6830 (7)	-	-	2400 (7)	-	-
1237	WWW BA4513	3660 (16)	-	-	6660 (11)	-	-	2150 (15)	-	-
	MEAN	4710	5650	5900	6650	6320	6260	2330	2270	1990
	CV	10.7	11.0	9.8	8.2	11.0	10.6	29.6	40.7	38.7
	LSD (.05)	720	620	470	770	980	660	480	530	ns

Numbers in parentheses indicate relative rank in column.

Table 10. 2009 UC INTERMOUNTAIN SPRING BARLEY TEST

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
1008	XENA	2RSM	Stark/Baronesse (WPB BZ 594-19)	WB
1010	MILLENNIUM	6RSF	UT87B603-1266/Short#2	USU
1016	STATEHOOD	6RSF	WA641566/Braken (UT1705-D)	USU
1074	IDAGOLD 2			
1079	CREEL	6RSF	M44/80Ab4952//79Ab10719	ID
1082	CONRAD	2RSM	B1215/2B88-5336	BARI
1084	LEGACY	6RSM	6B86-3517/Excel	BARI
1215	TETONIA	2RSF	85Ab2323/Baronesse	ID
1217	AC Metcalfe	2RSM	AC Oxbow/Manley	AG Canada
1218	CHAMPION	2RSF	Camas/Baronesse	WB
<u>ADVANCED LINES</u>				
1099	UCD-TL20	6RSF	Colter/UC958	UCD
1135	UCD YP03-8/2	6RS(N)	F7 CMB 91A-1192-AL/UC 960	UCD/OSU
1145	UCD-TLB52	6RSF	Stander/UC960	UCD
1171	T/S//E 11-18	6RSM	Tango/Stander//Excel	OSU
1188	95Ab11469	2RSM	87Ab9561/ND9870	ID
1200	TLB 68	6RSF	Stander/UC 958//UC 960	UCD
1201	TLB 148	6RSF	UC960/4/UC958/3/UT81B275-248//SDSS/Primus	UCD
1202	TLB 150	6RSF	UC960/4/UC958/3/UT81B275-248//SDSS/Primus	UCD
1219	BZ502-265	2RSF	97-1115/Xena	WB
1238	TLA 6	6RSF	933/RSI617//UC1047	UCD
1239	TLA 8	6RSF	933/RSI617//UC1047	UCD
1240	TLA 38	6RSF	933/RSI617//UC1047	UCD
1241	TLA 43	6RSF	933/RSI617//UC1047	UCD
1242	TLB 35	6RSF	RSI617/UC937//UC1047	UCD
1243	TLB 37	6RSF	RSI617/UC937//UC1047	UCD
1244	TLB 44	6RSF	RSI617/UC937//UC1047	UCD
1245	TLE 3	6RSF	23IBYT7//UC1047/UC999	UCD
1246	TLE 11	6RSF	23IBYT7//UC1047/UC999	UCD
1247	TLF 4	6RSF	Statehood/UC960	UCD

TYPE: 6RSF = 6-row spring feed; 6RSM = 6-row spring malt; 2RSF = 2-row spring feed; 2RSM = 2-row spring malt

SOURCE: AG Canada = Agricultural and Agri-foods, Canada; BARI = Busch Agricultural Resources, Inc.;

ID = University of Idaho, USDA/ARS, Aberdeen, ID; OSU = Oregon State University;

UCD = University of California, Davis; USU = Utah State University; WB = WESTBRED, LLC;

Table 11. 2009 LASSEN SPRING BARLEY TEST

Entry	Name	Yield (lbs/acre)	Plant Ht (in)
<u>CULTIVARS</u>			
204	STEPTOE	3510 (3)	25
900	BARONESSE	2000 (28)	20
960	UC 960	3190 (8)	18
1008	XENA	2250 (25)	23
1010	MILLENNIUM	2480 (22)	20
1016	STATEHOOD	2970 (13)	28
1074	IDAGOLD 2	1790 (31)	21
1079	CREEL	2190 (26)	22
1082	CONRAD	2100 (27)	23
1084	LEGACY	2700 (18)	27
1215	TETONIA	2850 (15)	23
1217	AC Metcalfe	1870 (29)	27
1218	CHAMPION	2820 (16)	26
<u>ADVANCED LINES</u>			
1099	UCD-TL20	2330 (24)	22
1135	UCD YP03-8/2	3030 (12)	20
1145	UCD-TLB52	3150 (11)	22
1171	T/S//E 11-18	2340 (23)	24
1188	95Ab11469	1860 (30)	27
1200	TLB 68	3360 (5)	21
1201	TLB 148	3210 (6)	24
1202	TLB 150	2810 (17)	24
1219	BZ502-265	1550 (32)	23
1238	TLA 6	2650 (19)	21
1239	TLA 8	3880 (1)	24
1240	TLA 38	2560 (21)	23
1241	TLA 43	3540 (2)	24
1242	TLB 35	3200 (7)	23
1243	TLB 37	3370 (4)	21
1244	TLB 44	3160 (10)	22
1245	TLE 3	2890 (14)	20
1246	TLE 11	2600 (20)	21
1247	TLF 4	3190 (9)	23
	MEAN	2730	23
	CV	22.4	8.3
	LSD (.05)	1000	4

Numbers in parentheses indicate relative rank in column.

Table 12. 2009 TULELAKE SPRING BARLEY TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Shatter	Stripe Rust	
							11-Aug	4-Aug
CULTIVARS								
204	STEPTOE	5890 (15)	52.5	40	5.0	1.0	1.0	1.7
900	BARONESSE	5250 (21)	55.7	39	6.3	1.7	1.0	1.3
960	UC 960	8030 (3)	52.8	33	1.3	1.0	1.0	1.0
1008	XENA	4230 (32)	55.9	42	7.3	1.0	1.0	1.0
1010	MILLENNIUM	8670 (1)	53.9	41	1.0	1.0	1.0	1.0
1016	STATEHOOD	6970 (7)	53.0	38	2.3	1.0	1.0	1.3
1074	IDAGOLD 2	7660 (5)	56.0	31	3.0	1.0	1.0	1.0
1079	CREEL	4260 (31)	56.1	44	6.0	1.0	1.0	2.0
1082	CONRAD	5310 (20)	55.7	40	5.7	1.0	1.0	1.3
1084	LEGACY	5020 (23)	54.7	46	5.7	2.3	1.0	2.0
1215	TETONIA	5070 (22)	56.1	41	5.3	1.7	1.0	1.3
1217	AC Metcalfe	4990 (25)	58.2	43	5.3	2.7	1.0	1.0
1218	CHAMPION	4830 (29)	55.7	38	7.0	1.0	1.0	1.0
ADVANCED LINES								
1099	UCD-TL20	6220 (12)	53.1	38	5.3	1.0	1.0	1.3
1135	UCD YP03-8/2	7950 (4)	59.1	32	1.0	1.0	1.0	1.0
1145	UCD-TLB52	5740 (16)	53.8	40	4.7	1.0	1.0	1.0
1171	T/S//E 11-18	4930 (27)	56.1	40	6.7	1.0	1.0	1.0
1188	95Ab11469	4700 (30)	56.9	41	6.0	2.0	1.0	1.0
1200	TLB 68	5360 (19)	52.2	38	5.3	1.0	1.0	1.0
1201	TLB 148	8200 (2)	52.8	40	2.0	1.0	1.0	1.0
1202	TLB 150	6450 (11)	51.3	41	3.0	1.0	1.0	1.3
1219	BZ502-265	4870 (28)	56.1	42	4.0	1.0	1.0	1.3
1238	TLA 6	6030 (13)	52.1	36	4.0	1.0	1.0	1.0
1239	TLA 8	6910 (8)	51.8	41	5.0	1.0	2.0	2.0
1240	TLA 38	6540 (10)	52.0	37	4.3	1.0	1.3	1.0
1241	TLA 43	4990 (26)	52.0	33	6.3	1.0	1.0	1.0
1242	TLB 35	5970 (14)	56.5	42	4.7	1.3	1.7	1.3
1243	TLB 37	5570 (18)	54.9	37	3.0	1.0	1.0	1.3
1244	TLB 44	7480 (6)	52.5	37	3.7	1.0	1.0	1.0
1245	TLE 3	6830 (9)	52.2	35	3.3	1.0	1.0	1.0
1246	TLE 11	5620 (17)	53.1	37	7.0	1.0	1.0	1.0
1247	TLF 4	5000 (24)	51.4	39	6.0	1.0	1.0	3.0
	MEAN	5990	1.2	39	4.6	1.2	1.1	1.27
	CV	17.3	34.5	5.4	32	34.5	36.1	49.5
	LSD (.05)	1690	0.7	4	2.4	0.7	ns	ns

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.

Table 13. 2009 AND 2007-09 INTERMOUNTAIN SPRING BARLEY YIELD SUMMARY

Entry	Name	2009 (2 Loc)	2008-09 (4 Loc/Yr)	2007-09 (5 Loc/Yr)
<u>CULTIVARS</u>				
204	STEPTOE	4700 (10)	5200 (10)	5710 (10)
900	BARONESSE	3630 (27)	4400 (18)	4980 (19)
960	UC 960	5610 (2)	6730 (1)	6860 (2)
1008	XENA	3240 (30)	4000 (20)	4790 (20)
1010	MILLENNIUM	5570 (3)	6560 (3)	6710 (3)
1016	STATEHOOD	4970 (7)	6030 (5)	6290 (6)
1074	IDAGOLD 2	4720 (9)	-	-
1079	CREEL	3230 (31)	4850 (13)	5650 (11)
1082	CONRAD	3700 (25)	4870 (12)	5250 (15)
1084	LEGACY	3860 (23)	4630 (17)	5210 (16)
1215	TETONIA	3960 (22)	4930 (11)	5440 (12)
1217	AC Metcalfe	3430 (28)	3950 (21)	4580 (21)
1218	CHAMPION	3820 (24)	4660 (15)	5180 (17)
<u>ADVANCED LINES</u>				
1099	UCD-TL20	4280 (18)	5600 (9)	6000 (9)
1135	UCD YP03-8/2	5490 (4)	6440 (4)	6680 (4)
1145	UCD-TLB52	4440 (15)	5810 (6)	6240 (7)
1171	T/S//E 11-18	3640 (26)	4840 (14)	5420 (14)
1188	95Ab11469	3280 (29)	4390 (19)	5100 (18)
1200	TLB 68	4360 (16)	5660 (8)	6110 (8)
1201	TLB 148	5700 (1)	6710 (2)	7120 (1)
1202	TLB 150	4630 (11)	5770 (7)	6360 (5)
1219	BZ502-265	3210 (32)	4630 (16)	5420 (13)
1238	TLA 6	4340 (17)	-	-
1239	TLA 8	5400 (5)	-	-
1240	TLA 38	4550 (13)	-	-
1241	TLA 43	4260 (19)	-	-
1242	TLB 35	4580 (12)	-	-
1243	TLB 37	4470 (14)	-	-
1244	TLB 44	5320 (6)	-	-
1245	TLE 3	4860 (8)	-	-
1246	TLE 11	4110 (20)	-	-
1247	TLF 4	4100 (21)	-	-
	MEAN	4360	5420	5940
	CV	19.5	19.5	16.4
	LSD (.05)	970	790	640

Numbers in parentheses indicate relative rank in column.

Table 14. 2009 WINTER WHEAT TEST
(09 OWEYT)

Entry	Name	Type	Pedigree
1	Stephens	sww	STEPHENS
2	Madsen	sww	MADSEN
3	Gene	sww	GENE
4	Tubbs	sww	TUBBS
5	Tubbs-06	sww	TUBBS-06
6	ORSS-1757	sww	ORSS-1757
7	Goetze	sww	Goetze
8	Skiles	sww	Skiles
9	Brundage 96	sww	BRUNDAGE96
10	Bitterroot	sww	Bitterroot
11	ID9364901A	sww	ID9364901A
12	ID D-05	sww	Dune Reselection
13	SkilesTubbs06	sww	Skiles/Tubbs06 Blend
14	Goetze/Skiles	sww	Goetze/Skiles Blend
15	Masami	sww	MASAMI
16	Xerpha	sww	Eltan/Estica
17	Westbred 528	sww	WESTBRED 528
18	Salute	sww	Salute
19	Legion	sww	Legion
20	ORF2 267-03	sww	ORF2BC9800267-3
21	ORCF-101	sww	ORCF-101
22	ORCF-101R	sww	ORCF-101 Reselection
23	ORCF-102	sww	ORCF-102
24	CF101/102	sww	ORCF101 / 102 Blend
25	ORCF-103	sww	ORCF-103
26	ID00859	sww	IMI Brundage
27	AP700CL	sww	OR93515/IMI-Stephens (OSUPOP-28-13)
28	Coda	club	Coda
29	Cara	club	Cara
30	OR2050910		9900932/939556
31	OR2040726		939380/951276
32	OR2050293		OR 939526/OR2010004
33	OR2050301		OR 939526/OR2010208
34	OR2060324		OR 939526/OR2010208
35	OR2060181		OR9800919/OR9901630
36	OR2060395		OR2010208/OR9801757
37	OR2060431		OR 939526/OR2010217
38	OR2060916		OR941904/OR9800919
39	OR2060926		OR 939526/OR2010208
40	OR2050853		9900966/3/Sentry/Lewjain//WA007432

Table 15. 2009 SISKIYOU WINTER WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging	
					soft dough	harvest
1	Stephens	5440 (28)	56.0	33	1.0	1.3
2	Madsen	5640 (17)	57.2	36	1.0	1.0
3	Gene	5510 (24)	56.8	30	1.0	1.0
4	Tubbs	6070 (7)	56.2	37	1.0	1.0
5	Tubbs-06	5400 (30)	55.5	38	1.0	1.0
6	ORSS-1757	5430 (29)	57.6	36	1.3	1.3
7	Goetze	6180 (5)	56.7	31	1.0	1.0
8	Skiles	5740 (13)	57.8	32	1.0	1.0
9	Brundage 96	5630 (19)	55.7	33	1.0	1.0
10	Bitterroot	5230 (34)	57.7	39	1.0	1.0
11	ID9364901A	5860 (12)	58.6	36	1.0	1.3
12	ID D-05	5950 (9)	59.8	34	1.0	1.0
13	SkilesTubbs06	5640 (18)	56.8	37	1.0	1.0
14	Goetze/Skiles	6250 (3)	57.8	32	1.0	1.0
15	Masami	4290 (38)	53.7	37	3.0	3.7
16	Xerpha	5610 (20)	55.7	37	1.3	1.3
17	Westbred 528	6450 (1)	59.1	34	1.0	1.0
18	Salute	5450 (26)	53.4	38	1.3	1.7
19	Legion	5540 (23)	56.5	39	1.0	1.7
20	ORF2 267-03	5250 (32)	57.6	37	1.0	1.0
21	ORCF-101	5450 (27)	55.1	35	1.0	1.0
22	ORCF-101R	5660 (15)	56.6	34	1.0	1.0
23	ORCF-102	5510 (25)	57.5	37	1.0	1.0
24	CF101/102	5570 (21)	56.8	34	1.0	1.0
25	ORCF-103	3240 (40)	55.1	36	7.7	7.7
26	ID00859	5200 (35)	56.6	33	1.0	1.0
27	AP700CL	5910 (11)	56.5	37	1.0	1.0
28	Coda	4830 (37)	58.7	37	3.0	4.0
29	Cara	4260 (39)	54.6	36	1.0	1.3
30	OR2050910	5540 (22)	55.1	35	1.7	1.3
31	OR2040726	6260 (2)	57.4	32	1.0	1.0
32	OR2050293	6250 (4)	56.1	35	1.0	1.0
33	OR2050301	5640 (16)	54.3	35	1.3	1.3
34	OR2060324	5950 (10)	54.7	32	1.0	1.0
35	OR2060181	6120 (6)	55.3	34	1.0	1.0
36	OR2060395	5980 (8)	55.4	32	1.0	1.0
37	OR2060431	5120 (36)	51.8	34	1.0	1.0
38	OR2060916	5330 (31)	56.9	37	1.0	1.0
39	OR2060926	5240 (33)	50.8	34	1.0	1.0
40	OR2050853	5670 (14)	54.6	36	1.0	1.0
	MEAN	5530	56.2	35	1.3	1.4
	CV	7.5	1.3	3.5	32	40.5
	LSD (.05)	670	1.5	2	0.7	0.9

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.

Table 16. TULELAKE WINTER WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Shatter	Stripe Rust
1	Stephens	7900 (23)	60.1	38	1.0	1.0	1.0
2	Madsen	8110 (20)	60.7	38	1.0	1.0	1.0
3	Gene	6030 (38)	59.6	33	1.0	1.0	1.0
4	Tubbs	9410 (2)	60.3	39	1.0	1.0	1.7
5	Tubbs-06	8730 (8)	60.6	39	2.0	1.0	1.0
6	ORSS-1757	7610 (26)	60.4	38	1.0	1.0	1.0
7	Goetze	3890 (40)	60.5	35	1.0	1.0	1.0
8	Skiles	7750 (24)	61.9	37	1.0	1.0	1.0
9	Brundage 96	7940 (22)	60.5	36	1.0	1.0	1.0
10	Bitterroot	8220 (18)	61.7	40	1.3	1.0	1.0
11	ID9364901A	8200 (19)	61.3	40	2.0	1.0	1.0
12	ID D-05	7700 (25)	62.6	38	1.0	1.0	1.0
13	SkilesTubbs06	9050 (5)	60.9	39	1.0	1.0	1.0
14	Goetze/Skiles	6550 (35)	61.3	35	1.0	1.0	1.0
15	Masami	8580 (12)	59.9	42	1.0	1.0	1.0
16	Xerpha	9320 (3)	61.6	41	1.0	1.0	1.0
17	Westbred 528	6400 (36)	62.4	38	1.0	1.0	1.0
18	Salute	8860 (7)	60.1	41	1.3	1.0	1.0
19	Legion	8060 (21)	59.7	39	4.0	1.0	1.0
20	ORF2 267-03	6740 (33)	61.4	43	1.0	1.0	1.0
21	ORCF-101	7090 (30)	60.2	37	1.0	1.0	1.0
22	ORCF-101R	6780 (32)	60.8	37	1.0	1.0	1.0
23	ORCF-102	8410 (15)	60.9	40	1.0	1.0	1.0
24	CF101/102	7470 (28)	60.5	40	1.0	1.0	1.0
25	ORCF-103	6700 (34)	60.4	37	6.7	1.0	1.0
26	ID00859	8230 (17)	60.2	34	1.0	1.0	1.0
27	AP700CL	8390 (16)	60.5	41	1.0	1.0	1.0
28	Coda	7110 (29)	61.9	40	4.3	1.0	1.0
29	Cara	6030 (37)	60.0	39	1.0	1.0	1.0
30	OR2050910	8720 (9)	59.5	36	1.7	1.0	1.0
31	OR2040726	7500 (27)	61.7	37	1.0	1.0	1.0
32	OR2050293	8490 (14)	60.8	37	1.0	1.0	1.0
33	OR2050301	8700 (10)	58.5	37	5.3	1.0	1.0
34	OR2060324	8930 (6)	57.4	35	1.0	1.0	1.0
35	OR2060181	5820 (39)	59.4	38	1.0	1.0	1.0
36	OR2060395	6850 (31)	60.2	38	1.0	1.0	1.0
37	OR2060431	9550 (1)	58.7	38	1.0	1.0	1.0
38	OR2060916	8640 (11)	57.2	37	1.0	1.3	1.0
39	OR2060926	8540 (13)	57	38	4.3	1.0	1.0
40	OR2050853	9280 (4)	60.4	38	1.0	1.0	1.0
	MEAN	7810	60.3	38	1.6	1	1
	CV	7.6	0.5	2.5	42.3	9.1	9
	LSD (.05)	960	0.6	2	1.1	ns	0.1

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.

Table 17. 2009 INTERMOUNTAIN WINTER WHEAT YIELD SUMMARY
(2009 Oregon Winter Elite Yield Trial - OWEYT)

Entry	Name	Mean		
		(2 Loc)	Siskiyou	Tulelake
1	Stephens	6670 (25)	5440 (28)	7900 (23)
2	Madsen	6880 (18)	5640 (17)	8110 (20)
3	Gene	5770 (37)	5510 (24)	6030 (38)
4	Tubbs	7740 (1)	6070 (7)	9410 (2)
5	Tubbs-06	7060 (12)	5400 (30)	8730 (8)
6	ORSS-1757	6520 (27)	5430 (29)	7610 (26)
7	Goetze	5040 (39)	6180 (5)	3890 (40)
8	Skiles	6740 (22)	5740 (13)	7750 (24)
9	Brundage 96	6780 (21)	5630 (19)	7940 (22)
10	Bitterroot	6720 (23)	5230 (34)	8220 (18)
11	ID9364901A	7030 (13)	5860 (12)	8200 (19)
12	ID D-05	6830 (19)	5950 (9)	7700 (25)
13	SkilesTubbs06	7340 (6)	5640 (18)	9050 (5)
14	Goetze/Skiles	6400 (31)	6250 (3)	6550 (35)
15	Masami	6440 (28)	4290 (38)	8580 (12)
16	Xerpha	7460 (3)	5610 (20)	9320 (3)
17	Westbred 528	6430 (29)	6450 (1)	6400 (36)
18	Salute	7160 (9)	5450 (26)	8860 (7)
19	Legion	6800 (20)	5540 (23)	8060 (21)
20	ORF2 267-03	5990 (34)	5250 (32)	6740 (33)
21	ORCF-101	6270 (32)	5450 (27)	7090 (30)
22	ORCF-101R	6220 (33)	5660 (15)	6780 (32)
23	ORCF-102	6960 (15)	5510 (25)	8410 (15)
24	CF101/102	6520 (26)	5570 (21)	7470 (28)
25	ORCF-103	4970 (40)	3240 (40)	6700 (34)
26	ID00859	6720 (24)	5200 (35)	8230 (17)
27	AP700CL	7150 (10)	5910 (11)	8390 (16)
28	Coda	5970 (36)	4830 (37)	7110 (29)
29	Cara	5150 (38)	4260 (39)	6030 (37)
30	OR2050910	7130 (11)	5540 (22)	8720 (9)
31	OR2040726	6880 (17)	6260 (2)	7500 (27)
32	OR2050293	7370 (5)	6250 (4)	8490 (14)
33	OR2050301	7170 (8)	5640 (16)	8700 (10)
34	OR2060324	7440 (4)	5950 (10)	8930 (6)
35	OR2060181	5970 (35)	6120 (6)	5820 (39)
36	OR2060395	6420 (30)	5980 (8)	6850 (31)
37	OR2060431	7340 (7)	5120 (36)	9550 (1)
38	OR2060916	6990 (14)	5330 (31)	8640 (11)
39	OR2060926	6890 (16)	5240 (33)	8540 (13)
40	OR2050853	7480 (2)	5670 (14)	9280 (4)
	MEAN	6670	5530	7810
	CV	7.6	7.5	7.6
	LSD (.05)	580	670	960

Numbers in parentheses indicate relative rank in column.

Table 18. 2009 UC REGIONAL COMMON WHEAT AND TRITICALE ENTRY LIST

Entry	Name	Type	Parentage	Sites	Source
CULTIVARS					
20	ANZA	HRS	LR/N10B//3*ANE	ALL	UC
112	YECORA ROJO	HRS	(CNO*SON64-KLRE)8156	ALL	UC
788	EXPRESS	HRS	VEE-BH146	ALL	WB
1156	BLANCA GRANDE	HWS	EXPRESS//CLEO/2INIA66/4/PB775	ALL	RSI
1340	MIKA	HRS	HRS MSFRS QUALITY POP	ALL	WWW
1361	CLEAR WHITE	HWS	ANZA//D6301/NAI60/3/YR/4/KLASIC	ALL	UC
1419	PATWIN	HWS	MADSEN/2*EXPRESS	ALL	UC
1424	JOAQUIN	HRS	ELDON/YU994-199	ALL	WB
1478	CAL ROJO	HRS	CMT1171-4//PFAUS'/VEE#5/3/BONUS	ALL	RSI
1495	LASSIK	HRS	Anza short (Gpc; 2NS; 1, 5+10)	ALL	UC
1500	EXPRESSO	HRS	Express 6*/YR15 Avocet//Express 6*/Madsen	ALL	WB
1521	REDWING	HRS	CMT Synthetic/1065-3/3/UCSR/PB775// Express	ALL	RSI
1522	BLANCA ROYALE	HWS	CLEO/2INIA//W444/3/DWL5046/2*CELAYA/4/UCSR/PB775/5/STANDER	ALL	RSI
1523	BLANCA FUERTE	HWS	SERRA/4/VS73.600/MRL/3/BOW//YR/TRF/5/RSI5/6/PH989-188/1065-3	ALL	RSI
1548	CHRISTALLO	HWS	STANDER/EXPRESS//PLATA	ALL	WB
1550	TRIPLE IV	HRS		Rainfed	WB
1555	LARIAT	HRS	Cleo/2Inia//W444/3/DWL5046/2*Celaya/4/UCSR/PB775/5/Standar	ALL	RSI
1605	PALOMA	HWS	SNOW CREST/WAIKEA	Central Valley	WB
ADVANCED LINES					
1592	RSI 01W20153	HWS	Serra/CMT Line/Bonus	ALL	RSI
1600	UCD 07013/30	HRS	UC1036 Yr5, Lr37, Lr47	ALL	UC
1616	UCD 0810/5	HRS	UC1357/Kern + Lr37	ALL	UC
1617	UCD 08013/1	HRS	UC1041/2/Madsen/Express	ALL	UC
1618	UCD 08013/24	HRS	Madsen/2*Express	ALL	UC
1619	SONORA	HWS	Citr 3036 (WGC-012)	ALL	WGC
1620	WIT WOLKORING	HWS	PI 479660 (WGC-013)	ALL	WGC
1621	WWW BR2306	HRS	HRS MSFRS Quality Population	ALL	WWW
1622	WWW IMI5345-4	HRS	HRS MSFRS Disease Resistant Population	ALL	WWW
1623	WB DA905-55	HRS	995-127/EXPRESS//SOLANO	Central Valley	WB
1624	WB DA905-10	HRS	993-191/998-5//SUMMIT/DASH 12	Central Valley	WB
1625	WB SJ905-162W	HWS	SNOW CREST/WAIKEA	Central Valley	WB
1626	RSI 06W30002	HRS	CIMMYT LINES/BONUS//CIMMYT LINES/PH 989-80W//EXPRESS	ALL	RSI
1636	APB W1-10	HRS	Summit x MSFRS Population 5-Points CA	ALL	APB
1637	APB W8-2	HWS	Northern males x MSFRS Population 5-Points CA	ALL	APB
1638	APB W11-6	HRS	Hi-protein x MSFRS Population 5-points CA	ALL	APB
TRITICALE					
3097	TRICAL BRAND 105	TCL	FARAS/BUL (TRICAL 44415)	ALL	RSI
3156	TRICAL BRAND 118	TCL	AR/SPY6//11TSN 79-3/C2/3/TCL7/TCL50-1	ALL	RSI
3158	TRICAL BRAND 98	TCL	SS193-5/T25-3//3214/4/MZ4/XT419/3/TCL7/TCL50-1//PND6/CMH77A.116	ALL	RSI
3163	TRICAL BRAND 110	TCL	RONDO/ERIZO//NIMIR/3/TCL7/TCL50-1	ALL	RSI
3164	WB ACS 55304	TCL		ALL	WB

39 ENTRIES

TYPE: HRS = Hard Red Spring; HWS = Hard White Spring; TCL = 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

WGC = Whole Grain Connection

Table 19. 2009 COLUSA COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000 Kernel Wt (g)	Plant Ht (in)	Lodging Harvest	Septoria	Stripe Rust	Powdery Mildew
CULTIVARS									
20	ANZA	4100 (24)	62.1	40.0	38	1.5	2.8	2.8	1.0
112	YECORA ROJO	3180 (28)	61.6	43.9	32	6.3	4.3	6.3	1.0
788	EXPRESS	4270 (23)	61.9	43.4	39	2.8	2.3	2.5	1.0
1156	BLANCA GRANDE	3940 (26)	63.6	45.3	38	4.5	2.5	1.5	1.0
1340	MIKA	4810 (19)	62.1	44.2	44	3.0	1.5	1.0	1.0
1361	CLEAR WHITE	5610 (7)	62.2	42.3	36	1.5	2.8	1.0	1.0
1419	PATWIN	5480 (12)	61.5	43.3	36	1.0	1.5	1.0	1.0
1424	JOAQUIN	5590 (8)	61.6	44.8	38	2.8	2.3	1.5	5.5
1478	CAL ROJO	6060 (3)	61.0	45.9	38	1.0	2.5	1.0	1.0
1495	LASSIK	5490 (10)	61.7	43.1	38	1.0	4.3	1.0	1.0
1500	EXPRESSO	5520 (9)	62.9	41.5	41	1.8	1.3	1.0	1.0
1521	REDWING	6210 (2)	60.6	43.3	36	1.0	3.3	1.0	1.8
1522	BLANCA ROYALE	4560 (20)	62.6	42.1	35	3.3	2.8	1.0	1.0
1523	BLANCA FUERTE	6440 (1)	63.3	44.2	35	1.0	5.5	1.0	1.0
1548	CHRISTALLO	5750 (5)	62.5	42.9	39	1.5	2.5	1.0	1.0
1555	LARIAT	5250 (15)	63.2	43.7	39	1.0	2.3	1.0	1.0
1605	PALOMA	5200 (16)	62.3	42.6	37	4.0	3.8	2.0	1.0
ADVANCED LINES									
1592	RSI 01W20153	5170 (17)	62.3	47.4	40	4.5	1.8	1.0	1.0
1600	UCD 07013/30	5430 (14)	62.2	46.9	33	1.5	2.3	1.0	1.0
1616	UCD 0810/5	4540 (21)	62.3	43.8	33	1.5	4.3	1.0	1.0
1617	UCD 08013/1	5730 (6)	61.6	43.0	32	1.0	1.8	1.0	1.0
1618	UCD 08013/24	5490 (10)	62.0	42.3	36	1.0	4.5	1.0	1.0
1619	SONORA	1550 (32)	62.5	39.9	50	7.3	1.0	1.0	1.5
1620	WIT WOLKORING	1470 (33)	64.1	39.8	50	7.5	1.0	1.0	1.0
1621	WWW BR2306	3060 (29)	59.5	43.9	45	6.8	3.5	5.3	1.0
1622	WWW IMI5345-4	2960 (30)	59.9	40.2	45	5.5	3.3	7.5	1.0
1623	WB DA905-55	5460 (13)	63.0	43.1	35	1.3	2.5	1.0	3.3
1624	WB DA905-10	5970 (4)	62.4	43.0	39	2.3	2.3	1.0	1.0
1625	WB SJ905-162W	4920 (18)	62.0	44.0	36	2.5	4.5	1.0	1.0
1626	RSI 06W30002	4480 (22)	60.7	47.7	37	2.3	3.0	1.0	1.5
1636	APB W1-10	3640 (27)	61.3	47.0	40	4.0	1.5	1.0	1.3
1637	APB W8-2	4080 (25)	61.7	42.0	40	4.5	1.3	1.3	1.0
1638	APB W11-6	2400 (31)	61.2	44.5	37	6.8	5.5	1.0	1.0
TRITICALE									
3097	TRICAL BRAND 105	6060 (4)	59.7	46.9	43	1.3	1.8	1.0	1.0
3156	TRICAL BRAND 118	7080 (2)	59.4	41.8	40	1.0	1.5	1.3	1.0
3158	TRICAL BRAND 98	5590 (5)	55.8	39.8	37	1.0	2.5	3.0	1.0
3163	TRICAL BRAND 110	7350 (1)	58.4	45.5	40	1.3	2.8	1.3	1.0
3164	PACHECO	6090 (3)	58.8	46.0	41	1.0	2.3	1.5	1.0
	MEAN	4890	61.5	43.5	38	2.7	2.7	1.6	1.2
	CV	14.5	0.9	3	3.4	46.3	37.6	40.8	34.2
	LSD (.05)	1000	1.1	2.6	3.0	1.8	1.4	0.9	0.6

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.

Table 20. 2009 UCD COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Septoria	Powdery Mildew	Stripe Rust	Leaf Rust	
									5/12	5/20
CULTIVARS										
20	ANZA	5130 (25)	62.4	39	1.5	1.0	1.0	5.3	1.0	1.0
112	YECORA ROJO	4520 (29)	61.4	33	2.0	1.0	1.0	7.3	1.0	1.0
788	EXPRESS	6040 (20)	62.5	40	1.3	1.3	1.0	3.5	1.0	1.7
1156	BLANCA GRANDE	6110 (16)	63.6	36	1.3	1.5	1.0	6.5	1.0	1.0
1340	MIKA	5010 (26)	61	42	2.3	1.0	1.0	2.0	2.0	3.0
1361	CLEAR WHITE	6100 (17)	62.7	40	1.0	1.3	1.0	3.8	1.0	2.6
1419	PATWIN	6320 (11)	62	35	1.0	1.0	1.3	1.3	1.3	2.3
1424	JOAQUIN	6360 (9)	63.2	37	1.5	1.0	2.3	4.8	2.0	4.5
1478	CAL ROJO	6050 (19)	61.6	34	1.0	1.8	1.0	1.0	1.0	1.0
1495	LASSIK	6160 (15)	62.6	36	1.8	1.0	2.0	1.0	1.3	4.5
1500	ESPRESSO	6320 (11)	62.8	40	1.0	1.0	1.0	1.0	1.0	1.0
1521	REDWING	7240 (2)	62.3	35	1.0	1.0	2.3	1.3	1.3	1.7
1522	BLANCA ROYALE	6280 (13)	62.8	35	1.3	1.3	1.0	4.0	1.3	2.1
1523	BLANCA FUERTE	6880 (3)	64.9	34	1.0	1.0	1.0	1.0	1.0	1.0
1548	CHRISTALLO	6580 (6)	63.8	37	2.0	1.0	1.0	1.0	1.0	2.4
1555	LARIAT	6090 (18)	63.2	36	1.0	1.0	1.0	1.3	1.3	1.0
1605	PALOMA	6370 (8)	63.1	38	1.8	1.0	1.1	2.8	2.0	2.5
ADVANCED LINES										
1592	RSI 01W20153	6700 (4)	63.7	43	2.5	1.0	1.0	2.3	4.0	6.0
1600	UCD 07013/30	6430 (7)	62.4	33	1.0	1.0	1.0	1.3	1.3	1.0
1616	UCD 0810/5	6650 (5)	64.2	33	1.0	1.3	1.5	2.0	1.3	2.3
1617	UCD 08013/1	6020 (21)	62.2	30	1.0	1.0	1.0	1.0	1.0	1.0
1618	UCD 08013/24	6330 (10)	63.4	36	1.3	1.3	1.0	1.0	2.8	4.0
1619	SONORA	1890 (33)	62.4	46	8.0	1.0	1.0	2.3	3.8	5.8
1620	WIT WOLKORING	2180 (32)	62.9	49	8.0	1.0	1.0	3.5	2.5	4.0
1621	WWW BR2306	3890 (31)	59.7	41	2.5	1.0	1.0	7.3	1.0	1.0
1622	WWW IMI5345-4	3900 (30)	60.4	44	3.5	1.0	1.0	5.3	1.0	1.0
1623	WB DA905-55	6270 (14)	63.7	36	1.3	1.0	1.0	1.0	2.5	3.5
1624	WB DA905-10	7310 (1)	62.9	40	1.0	1.0	1.3	1.5	1.5	3.3
1625	WB SJ905-162W	5890 (22)	62.9	36	2.0	1.0	1.0	1.5	2.3	2.5
1626	RSI 06W30002	5380 (24)	62.1	40	1.0	1.0	1.0	1.0	2.0	3.5
1636	APB W1-10	5630 (23)	62.7	38	4.0	1.0	1.0	1.3	1.3	2.1
1637	APB W8-2	4660 (27)	63	42	3.0	1.0	1.0	3.5	2.0	4.3
1638	APB W11-6	4640 (28)	61.8	38	4.0	1.3	1.3	1.5	1.0	1.0
TRITICALE										
3097	TRICAL BRAND 105	6640 (4)	59.1	44	1.0	1.0	1.0	1.3	1.0	3.7
3156	TRICAL BRAND 118	7540 (1)	59.9	39	1.0	1.0	1.0	2.0	1.0	1.0
3158	TRICAL BRAND 98	5750 (5)	56.2	36	1.0	1.0	1.0	5.5	1.0	1.0
3163	TRICAL BRAND 110	7260 (2)	59.4	38	1.0	1.0	1.5	3.3	2.5	1.0
3164	PACHECO	7220 (3)	60.7	41	1.3	1.0	1.0	2.0	1.8	1.0
	MEAN	5840	62	38	1.9	1.1	1.1	2.6	1.6	3.54
	CV	7.9	0.8	3.3	49.1	28.0	46.4	45.2	49.6	30.1
	LSD (.05)	640	1.0	3.0	1.3	ns	0.7	1.7	1.1	1.52

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.

Table 21. 2009 DELTA COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Lodging Harvest	Septoria	Stripe Rust	Powdery Mildew	Shatter
CULTIVARS								
20	ANZA	4260 (19)	61.9	1.0	2.8	2.3	1.8	1.8
112	YECORA ROJO	3780 (25)	60.7	1.0	1.8	6.3	2.0	1.8
788	EXPRESS	4110 (22)	61.8	1.0	1.3	2.8	1.5	2.5
1156	BLANCA GRANDE	4190 (21)	63.1	1.0	1.5	1.0	2.3	3.0
1340	MIKA	3420 (26)	57.9	1.0	1.5	1.0	1.3	1.8
1361	CLEAR WHITE	4690 (13)	62.2	1.0	2.0	1.3	1.5	1.8
1419	PATWIN	5800 (2)	59.7	1.0	1.5	1.0	1.8	1.5
1424	JOAQUIN	4900 (10)	61.7	1.0	1.5	1.0	7.0	1.8
1478	CAL ROJO	4510 (16)	60.2	1.0	1.3	1.0	1.3	1.5
1495	LASSIK	4500 (17)	59.9	1.0	1.8	1.0	1.5	2.3
1500	ESPRESSO	3810 (24)	62.3	1.0	1.5	1.0	1.3	3.0
1521	REDWING	5170 (8)	60.1	1.0	1.8	1.0	2.3	1.3
1522	BLANCA ROYALE	5400 (6)	62.3	1.0	1.5	1.3	2.0	1.3
1523	BLANCA FUERTE	5830 (1)	63.1	1.0	2.3	1.3	3.0	1.3
1548	CHRISTALLO	5170 (8)	62.7	1.0	1.5	1.0	1.8	1.5
1555	LARIAT	4720 (12)	60.9	1.0	1.3	1.0	1.0	1.8
1605	PALOMA	4490 (18)	62.5	1.5	1.3	1.0	1.0	1.5
ADVANCED LINES								
1592	RSI 01W20153	4240 (20)	62.9	1.0	2.0	1.0	2.3	3.0
1600	UCD 07013/30	5510 (4)	61.9	1.0	1.8	1.0	4.0	1.8
1616	UCD 0810/5	5450 (5)	62.8	1.0	1.8	1.0	2.0	1.8
1617	UCD 08013/1	5190 (7)	60.8	1.0	1.3	1.0	1.3	1.5
1618	UCD 08013/24	4590 (15)	61.1	1.0	1.5	1.0	1.3	2.0
1619	SONORA	1830 (32)	62.5	5.0	1.0	1.0	1.0	3.0
1620	WIT WOLKORING	1880 (31)	62.8	5.8	1.0	1.0	1.0	2.5
1621	WWW BR2306	3410 (27)	60.5	1.3	2.0	5.0	1.5	2.3
1622	WWW IMI5345-4	4070 (23)	61.8	2.8	1.5	6.3	1.0	1.0
1623	WB DA905-55	4690 (13)	62.7	1.0	1.8	1.0	4.3	1.8
1624	WB DA905-10	5670 (3)	62.3	1.0	1.3	1.0	1.5	1.8
1625	WB SJ905-162W	4800 (11)	61.9	1.3	2.0	1.0	1.5	1.0
1626	RSI 06W30002	3410 (27)	61.4	1.0	1.5	1.0	2.5	2.8
1636	APB W1-10	1480 (33)	61.4	1.5	1.0	1.0	2.0	6.3
1637	APB W8-2	1990 (30)	61.1	1.0	1.3	1.0	1.5	5.5
1638	APB W11-6	2740 (29)	61.4	1.0	1.5	1.0	1.5	4.0
TRITICALE								
3097	TRICAL BRAND 105	5920 (4)	59.3	1.0	2.0	1.0	1.0	1.0
3156	TRICAL BRAND 118	6770 (3)	59.6	1.0	1.0	1.0	1.0	1.0
3158	TRICAL BRAND 98	4600 (5)	54.1	1.0	2.0	3.5	1.0	1.0
3163	TRICAL BRAND 110	7070 (1)	58.4	1.0	1.3	1.5	1.0	1.0
3164	PACHECO	6940 (2)	59.9	1.0	2.3	1.0	1.0	1.0
	MEAN	4500	61.1	1.3	1.6	1.6	1.8	2.0
	CV	13.5	0.9	69.5	44.0	35.6	43.8	46.6
	LSD (.05)	850	1.2	1.3	ns	0.8	1.1	1.3

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.

Table 22. 2009 FRESNO COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Septoria	Stripe Rust
<u>CULTIVARS</u>							
20	ANZA	6180 (23)	61.7	36	2.3	1.0	6.5
112	YECORA ROJO	5500 (29)	62.4	33	1.0	1.0	6.5
788	EXPRESS	6450 (18)	63.1	35	1.0	1.0	1.8
1156	BLANCA GRANDE	6870 (9)	64.1	36	1.5	1.0	1.0
1340	MIKA	5730 (27)	61.5	38	1.5	1.0	1.0
1361	CLEAR WHITE	6760 (12)	63.0	40	1.0	1.0	1.0
1419	PATWIN	6460 (17)	61.8	31	1.0	1.0	1.0
1424	JOAQUIN	7030 (5)	63.1	37	1.8	1.0	1.0
1478	CAL ROJO	6850 (10)	61.5	35	1.0	1.0	1.0
1495	LASSIK	6760 (12)	62.7	36	1.8	1.0	1.0
1500	EXPRESSO	6440 (19)	63.5	31	1.3	1.0	1.0
1521	REDWING	7380 (2)	61.1	33	1.0	1.8	1.0
1522	BLANCA ROYALE	6940 (8)	63.1	31	1.0	1.0	1.0
1523	BLANCA FUERTE	7070 (4)	64.2	33	1.0	1.0	1.0
1548	CHRISTALLO	6650 (15)	63.2	37	1.3	1.0	1.0
1555	LARIAT	6470 (16)	62.3	37	1.0	1.0	1.0
1605	PALOMA	6310 (22)	62.8	33	3.0	1.0	1.0
<u>ADVANCED LINES</u>							
1592	RSI 01W20153	7400 (1)	63.0	39	1.3	1.0	1.3
1600	UCD 07013/30	6980 (7)	63.1	28	1.0	1.0	1.0
1616	UCD 0810/5	7030 (5)	63.4	33	1.0	1.3	1.0
1617	UCD 08013/1	6420 (20)	62.4	34	1.0	1.0	1.0
1618	UCD 08013/24	6770 (11)	62.4	36	2.0	1.0	1.3
1619	SONORA	3010 (33)	64.3	43	7.8	1.0	1.3
1620	WIT WOLKORING	3610 (32)	63.7	43	8.0	1.0	1.0
1621	WWW BR2306	5560 (28)	61.8	40	1.5	1.0	7.0
1622	WWW IMI5345-4	5090 (30)	61.9	39	2.5	1.0	7.3
1623	WB DA905-55	6710 (14)	63.7	35	1.0	1.3	1.0
1624	WB DA905-10	7270 (3)	63.0	40	1.0	1.0	1.0
1625	WB SJ905-162W	6370 (21)	63.0	31	3.3	1.0	1.0
1626	RSI 06W30002	6020 (25)	62.4	40	1.0	1.0	1.0
1636	APB W1-10	5820 (26)	60.8	39	2.0	1.0	1.3
1637	APB W8-2	6060 (24)	61.9	39	1.0	1.0	1.3
1638	APB W11-6	4960 (31)	62.1	32	3.8	1.0	1.0
<u>TRITICALE</u>							
3097	TRICAL BRAND 105	6520 (3)	59.8	41	1.0	1.0	1.0
3156	TRICAL BRAND 118	6860 (2)	58.5	37	1.0	1.0	1.5
3158	TRICAL BRAND 98	6370 (4)	56.2	36	1.0	1.5	5.3
3163	TRICAL BRAND 110	8040 (1)	58.8	36	1.0	1.0	4.0
3164	PACHECO	4760 (5)	58.4	37	3.5	1.0	1.0
	MEAN	6300	62.1	36	1.8	1.0	1.9
	CV	9.6	1.0	7.6	21.1	20.4	29.9
	LSD (.05)	850	1.2	5.0	0.5	0.3	0.8

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

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

Numbers in parentheses indicate relative rank in column.

Table 23. 2009 KINGS COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust	Shatter
<u>CULTIVARS</u>							
20	ANZA	3690 (6)	62.9	36	1.5	4.8	1.0
112	YECORA ROJO	2580 (29)	62.5	22	1.0	1.8	1.3
788	EXPRESS	3140 (16)	62.0	34	1.0	1.5	1.0
1156	BLANCA GRANDE	3630 (7)	63.5	32	1.0	2.0	1.0
1340	MIKA	3430 (10)	61.9	38	1.3	1.3	1.0
1361	CLEAR WHITE	3600 (8)	62.9	31	1.0	1.0	1.0
1419	PATWIN	3730 (5)	61.3	34	1.0	1.3	1.0
1424	JOAQUIN	3000 (22)	63.0	33	1.0	1.8	1.0
1478	CAL ROJO	5190 (1)	61.8	31	1.0	1.0	1.0
1495	LASSIK	4440 (3)	62.2	33	2.5	1.0	1.0
1500	EXPRESSO	2960 (25)	62.4	26	1.0	1.0	1.0
1521	REDWING	4590 (2)	61.4	28	1.0	1.0	1.0
1522	BLANCA ROYALE	3090 (17)	62.5	25	1.0	1.8	1.0
1523	BLANCA FUERTE	2970 (24)	64.0	36	1.0	1.0	1.0
1548	CHRISTALLO	3210 (12)	62.4	28	1.0	1.0	1.0
1555	LARIAT	3280 (11)	62.1	27	1.0	1.0	1.0
1605	PALOMA	3050 (20)	63.5	32	1.3	1.0	1.0
<u>ADVANCED LINES</u>							
1592	RSI 01W20153	3900 (4)	63.9	37	1.8	1.0	1.0
1600	UCD 07013/30	2710 (27)	63.1	26	1.0	1.0	1.0
1616	UCD 0810/5	3010 (21)	63.3	27	1.0	1.3	1.0
1617	UCD 08013/1	2470 (32)	61.6	24	1.0	1.3	1.0
1618	UCD 08013/24	2990 (23)	62.9	35	1.8	1.0	1.0
1619	SONORA	3060 (19)	63.0	53	5.0	1.3	1.0
1620	WIT WOLKORING	2860 (26)	63.0	50	5.5	1.0	1.0
1621	WWW BR2306	3590 (9)	61.7	37	3.8	4.0	1.0
1622	WWW IMI5345-4	3080 (18)	61.1	39	1.3	2.3	1.0
1623	WB DA905-55	3150 (15)	63.0	26	1.0	1.0	1.0
1624	WB DA905-10	3160 (14)	62.0	33	1.0	1.3	1.0
1625	WB SJ905-162W	2550 (31)	63.5	26	1.0	1.3	1.0
1626	RSI 06W30002	2580 (29)	60.5	31	1.0	1.0	1.0
1636	APB W1-10	3200 (13)	62.3	35	4.3	1.0	1.0
1637	APB W8-2	2690 (28)	62.2	36	1.3	1.0	1.0
1638	APB W11-6	2380 (33)	62.6	33	3.0	1.3	1.0
<u>TRITICALE</u>							
3097	TRICAL BRAND 105	3590 (4)	57.6	36	1.0	1.0	1.0
3156	TRICAL BRAND 118	4330 (2)	57.9	30	1.0	1.0	1.0
3158	TRICAL BRAND 98	3930 (3)	57.3	32	1.0	2.5	1.0
3163	TRICAL BRAND 110	5220 (1)	59.3	33	1.0	3.3	1.0
3164	PACHECO	3330 (5)	59.4	34	1.0	2.0	1.0
	MEAN	3350	61.9	32	1.6	1.5	1.0
	CV	14.5	0.7	11.8	70.1	69.9	8.1
	LSD (.05)	680	0.8	8.0	1.5	1.5	ns

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.

Table 24. 2009 KERN COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest
<u>CULTIVARS</u>					
20	ANZA	4160 (29)	59.9	35	1.0
112	YECORA ROJO	4260 (28)	62.0	26	1.0
788	EXPRESS	3790 (30)	61.1	35	1.0
1156	BLANCA GRANDE	5970 (3)	63.6	35	1.0
1340	MIKA	4530 (27)	60.0	44	1.0
1361	CLEAR WHITE	5020 (22)	61.3	36	1.0
1419	PATWIN	5270 (16)	60.5	33	1.0
1424	JOAQUIN	5590 (7)	62.0	33	1.0
1478	CAL ROJO	4560 (26)	59.6	28	1.0
1495	LASSIK	6180 (2)	62.8	34	1.0
1500	EXPRESSO	5200 (20)	62.3	38	1.0
1521	REDWING	5380 (13)	60.2	29	1.0
1522	BLANCA ROYALE	5550 (9)	61.7	31	1.0
1523	BLANCA FUERTE	5440 (12)	63.2	30	1.0
1548	CHRISTALLO	5490 (11)	62.3	34	1.0
1555	LARIAT	5240 (18)	62.0	33	1.0
1605	PALOMA	5580 (8)	61.9	34	1.0
<u>ADVANCED LINES</u>					
1592	RSI 01W20153	5740 (6)	63.5	37	1.0
1600	UCD 07013/30	5090 (21)	62.5	30	1.0
1616	UCD 0810/5	5900 (4)	63.2	29	1.0
1617	UCD 08013/1	5310 (14)	60.2	28	1.0
1618	UCD 08013/24	6490 (1)	62.5	35	1.0
1619	SONORA	3560 (31)	62.7	57	5.8
1620	WIT WOLKORING	3470 (32)	63.4	55	5.8
1621	WWW BR2306	2180 (33)	56.5	38	1.0
1622	WWW IMI5345-4	4700 (25)	59.2	43	1.0
1623	WB DA905-55	5530 (10)	62.9	31	1.0
1624	WB DA905-10	5850 (5)	62.0	33	1.0
1625	WB SJ905-162W	5230 (19)	62.0	31	1.0
1626	RSI 06W30002	5000 (23)	60.9	35	1.0
1636	APB W1-10	5310 (14)	61.3	41	1.0
1637	APB W8-2	5260 (17)	61.9	35	1.0
1638	APB W11-6	4720 (24)	62.2	36	1.0
<u>TRITICALE</u>					
3097	TRICAL BRAND 105	6290 (1)	56.7	40	1.0
3156	TRICAL BRAND 118	5360 (4)	56.5	36	1.0
3158	TRICAL BRAND 98	3270 (5)	50.0	34	1.0
3163	TRICAL BRAND 110	5490 (3)	56.3	33	1.0
3164	PACHECO	6290 (1)	59.4	40	1.0
	MEAN	5090	60.8	35	1.3
	CV	12.7	1.0	4.5	22.8
	LSD (.05)	900	1.3	3	0.4

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.

Table 25. 2009 IMPERIAL COMMON WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000 Kernel Wt (g)	Plant Height (in)	Days to Head (from 3/1)	Days to Mature
CULTIVARS							
20	ANZA	6370 (9)	61.8	34.0	26	91	134
112	YECORA ROJO	5310 (20)	60.5	35.2	23	84	129
788	EXPRESS	7170 (5)	61.0	34.5	29	87	130
1156	BLANCA GRANDE	7090 (6)	63.3	40.1	30	83	129
1340	MIKA	5770 (15)	58.5	33.8	30	89	134
1361	CLEAR WHITE	6790 (8)	61.5	31.5	30	83	129
1419	PATWIN	7590 (2)	58.8	28.6	29	89	129
1424	JOAQUIN	4550 (24)	61.3	30.4	25	83	131
1478	CAL ROJO	4520 (25)	58.8	32.0	22	84	128
1495	LASSIK	6330 (10)	61.0	29.7	26	91	133
1500	EXPRESSO	7260 (4)	61.8	32.9	31	88	127
1521	REDWING	6090 (13)	58.3	32.4	22	87	131
1522	BLANCA ROYALE	5680 (18)	57.8	28.5	26	86	128
1523	BLANCA FUERTE	5880 (14)	61.8	32.2	23	89	132
1548	CHRISTALLO	8440 (1)	61.5	33.8	33	86	128
1555	LARIAT	5720 (16)	58.8	26.1	24	90	130
ADVANCED LINES							
1592	RSI 01W20153	6190 (11)	61.8	34.6	29	84	129
1600	UCD 07013/30	7430 (3)	60.8	35.2	26	84	128
1616	UCD 0810/5	6870 (7)	60.8	33.0	25	87	130
1617	UCD 08013/1	5520 (19)	58.8	35.4	20	87	129
1618	UCD 08013/24	6180 (12)	61.3	29.7	27	90	130
1619	SONORA	2150 (28)	58.5	28.8	44	102	135
1620	WIT WOLKORING	2270 (27)	58.3	30.8	44	99	134
1621	WWW BR2306	2110 (29)	61.0	37.4	26	91	139
1622	WWW IMI5345-4	3380 (26)	57.5	32.6	28	89	132
1626	RSI 06W30002	5720 (16)	60.0	37.1	30	87	131
1636	APB W1-10	5190 (21)	59.8	36.8	30	84	128
1637	APB W8-2	4960 (22)	60.0	32.9	30	82	129
1638	APB W11-6	4780 (23)	60.5	34.2	27	82	128
TRITICALE							
3097	TRICAL BRAND 105	6800 (4)	56.3	37.6	31	83	131
3156	TRICAL BRAND 118	5860 (5)	54.8	31.4	29	87	133
3158	TRICAL BRAND 98	8190 (1)	57.5	32.9	32	76	128
3163	TRICAL BRAND 110	7610 (2)	55.5	36.2	27	81	131
3164	PACHECO	7160 (3)	56.0	34.0	32	82	130
	MEAN	5850	59.6	33.1	28	87	130
	CV	10.1	2.3	5.6	5.7	2.1	1.0
	LSD (.05)	830	1.9	3.8	2.0	3.0	2.0

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.

Table 26. 2009 GLENN RAINFED COMMON WHEAT AND TRITICALE TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Septoria
<u>CULTIVARS</u>					
20	ANZA	3200 (20)	58.1	29	2.0
112	YECORA ROJO	3140 (23)	58.8	23	4.0
788	EXPRESS	3820 (7)	57.9	33	2.5
1156	BLANCA GRANDE	4010 (4)	60.2	32	3.3
1340	MIKA	3190 (21)	58.9	34	2.8
1361	CLEAR WHITE	3590 (11)	59.6	30	6.3
1419	PATWIN	3110 (25)	56.1	29	2.5
1424	JOAQUIN	3850 (6)	59.6	29	1.0
1478	CAL ROJO	4210 (2)	58.2	35	4.8
1495	LASSIK	2800 (28)	56.5	29	2.0
1500	EXPRESSO	3620 (10)	58.2	33	2.3
1521	REDWING	3530 (12)	55.7	24	1.8
1522	BLANCA ROYALE	3210 (19)	57.4	24	1.8
1523	BLANCA FUERTE	4220 (1)	61.3	28	1.5
1548	CHRISTALLO	3420 (15)	59.0	29	1.8
1550	TRIPLE IV	2850 (27)	60.0	29	2.3
1555	LARIAT	3380 (16)	57.8	29	2.0
<u>ADVANCED LINES</u>					
1592	RSI 01W20153	3810 (8)	57.3	31	1.0
1600	UCD 07013/30	3960 (5)	59.8	27	1.8
1616	UCD 0810/5	4180 (3)	59.7	28	3.8
1617	UCD 08013/1	3480 (14)	57.8	25	1.8
1618	UCD 08013/24	3330 (17)	58.7	29	1.0
1619	SONORA	1810 (29)	63.4	36	4.0
1620	WIT WOLKORING	1690 (30)	62.7	32	6.5
1621	WWW BR2306	3010 (26)	57.0	36	4.0
1622	WWW IMI5345-4	3160 (22)	56.1	35	2.3
1626	RSI 06W30002	3780 (9)	60.5	30	1.8
1636	APB W1-10	3280 (18)	55.8	34	3.3
1637	APB W8-2	3510 (13)	59.3	32	1.5
1638	APB W11-6	3140 (23)	58.1	31	2.8
<u>TRITICALE</u>					
3097	TRICAL BRAND 105	3520 (3)	54.9	35	1.3
3156	TRICAL BRAND 118	3830 (2)	56.3	34	1.0
3158	TRICAL BRAND 98	3440 (5)	53.5	30	1.0
3163	TRICAL BRAND 110	4190 (1)	55.7	31	1.0
3164	PACHECO	3480 (4)	56.3	35	2.8
	MEAN	3420	58.2	30	2.5
	CV	14.3	2.1	5.5	49.3
	LSD (.05)	690	2.4	3.0	1.7

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.

Table 27. 2009 TULARE RAINFED COMMON WHEAT AND TRITICALE TEST

Entry	Name	Yield (lbs/acre)	Plant Ht (in)
<u>CULTIVARS</u>			
20	ANZA	250 (32)	17
112	YECORA ROJO	620 (6)	17
788	EXPRESS	350 (24)	16
1156	BLANCA GRANDE	320 (28)	20
1340	MIKA	280 (31)	18
1361	CLEAR WHITE	650 (3)	21
1419	PATWIN	650 (4)	19
1424	JOAQUIN	330 (27)	16
1478	CAL ROJO	200 (34)	17
1495	LASSIK	220 (33)	19
1500	EXPRESSO	560 (9)	20
1521	REDWING	300 (30)	14
1522	BLANCA ROYALE	400 (20)	20
1523	BLANCA FUERTE	630 (5)	19
1548	CHRISTALLO	490 (16)	15
1550	TRIPLE IV	400 (21)	16
1555	LARIAT	340 (25)	19
<u>ADVANCED LINES</u>			
1592	RSI 01W20153	750 (1)	22
1600	UCD 07013/30	410 (19)	17
1616	UCD 0810/5	310 (29)	15
1617	UCD 08013/1	510 (15)	17
1618	UCD 08013/24	360 (23)	16
1619	SONORA	170 (35)	15
1620	WIT WOLKORING	330 (26)	19
1621	WWW BR2306	570 (8)	23
1622	WWW IMI5345-4	540 (13)	22
1626	RSI 06W30002	450 (17)	17
1636	APB W1-10	420 (18)	25
1637	APB W8-2	540 (14)	22
1638	APB W11-6	540 (11)	19
<u>TRITICALE</u>			
3097	TRICAL BRAND 105	540 (12)	20
3156	TRICAL BRAND 118	550 (10)	18
3158	TRICAL BRAND 98	660 (2)	26
3163	TRICAL BRAND 110	610 (7)	23
3164	PACHECO	380 (22)	17
	MEAN	450	19
	CV	60.2	16.9
	LSD (.05)	ns	ns

Numbers in parentheses indicate relative rank in column.

Table 28. 2009 WHEAT STRIPE RUST OVER LOCATION SUMMARY

Entry	Name	Stripe Rust					Fresno
		Mean (5 Loc)	Colusa	UC Davis	Sac-SJ Delta	Kings	
CULTIVARS							
20	ANZA	4.3 (30)	2.8	5.3	2.3	4.8	6.5
112	YECORA ROJO	5.6 (31)	6.3	7.3	6.3	1.8	6.5
788	EXPRESS	2.4 (28)	2.5	3.5	2.8	1.5	1.8
1156	BLANCA GRANDE	2.4 (28)	1.5	6.5	1.0	2.0	1.0
1340	MIKA	1.3 (18)	1.0	2.0	1.0	1.3	1.0
1361	CLEAR WHITE	1.6 (23)	1.0	3.8	1.3	1.0	1.0
1419	PATWIN	1.1 (7)	1.0	1.3	1.0	1.3	1.0
1424	JOAQUIN	2.0 (27)	1.5	4.8	1.0	1.8	1.0
1478	CAL ROJO	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1495	LASSIK	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1500	EXPRESSO	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1521	REDWING	1.1 (7)	1.0	1.3	1.0	1.0	1.0
1522	BLANCA ROYALE	1.8 (26)	1.0	4.0	1.3	1.8	1.0
1523	BLANCA FUERTE	1.1 (7)	1.0	1.0	1.3	1.0	1.0
1548	CHRISTALLO	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1555	LARIAT	1.1 (7)	1.0	1.3	1.0	1.0	1.0
1605	PALOMA	1.6 (23)	2.0	2.8	1.0	1.0	1.0
ADVANCED LINES							
1592	RSI 01W20153	1.3 (18)	1.0	2.3	1.0	1.0	1.3
1600	UCD 07013/30	1.1 (7)	1.0	1.3	1.0	1.0	1.0
1616	UCD 0810/5	1.3 (18)	1.0	2.0	1.0	1.3	1.0
1617	UCD 08013/1	1.1 (7)	1.0	1.0	1.0	1.3	1.0
1618	UCD 08013/24	1.1 (7)	1.0	1.0	1.0	1.0	1.3
1619	SONORA	1.4 (21)	1.0	2.3	1.0	1.3	1.3
1620	WIT WOLKORING	1.5 (22)	1.0	3.5	1.0	1.0	1.0
1621	WWW BR2306	5.7 (32)	5.3	7.3	5.0	4.0	7.0
1622	WWW IMI5345-4	5.7 (32)	7.5	5.3	6.3	2.3	7.3
1623	WB DA905-55	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1624	WB DA905-10	1.2 (15)	1.0	1.5	1.0	1.3	1.0
1625	WB SJ905-162W	1.2 (15)	1.0	1.5	1.0	1.3	1.0
1626	RSI 06W30002	1.0 (1)	1.0	1.0	1.0	1.0	1.0
1636	APB W1-10	1.1 (7)	1.0	1.3	1.0	1.0	1.3
1637	APB W8-2	1.6 (23)	1.3	3.5	1.0	1.0	1.3
1638	APB W11-6	1.2 (15)	1.0	1.5	1.0	1.3	1.0
TRITICALE							
3097	TRICAL BRAND 105	1.1 (1)	1.0	1.3	1.0	1.0	1.0
3156	TRICAL BRAND 118	1.4 (2)	1.3	2.0	1.0	1.0	1.5
3158	TRICAL BRAND 98	4.0 (5)	3.0	5.5	3.5	2.5	5.3
3163	TRICAL BRAND 110	2.7 (4)	1.3	3.3	1.5	3.3	4.0
3164	PACHECO	1.5 (3)	1.5	2.0	1.0	2.0	1.0
	MEAN	1.8	1.6	2.6	1.6	1.5	1.9
	CV	45.9	40.8	45.2	35.6	69.9	29.9
	LSD (.05)	0.5	0.9	1.7	0.8	1.5	0.8

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

Numbers in parentheses indicate relative rank in column.

Table 29. 2009 COMMON WHEAT GRAIN PROTEIN SUMMARY (%)

Entry	Name	Over-all Mean (6 loc)	Sacramento Valley				San Joaquin Valley			
			Mean (3 loc)	Colusa	UC Davis	Sac/SJ Delta	Mean (3 loc)	Fresno	Kings	Kern
<u>CULTIVARS</u>										
20	ANZA	11.46 (32)	11.63	10.54	11.87	12.49	11.28	8.39	12.91	12.54
112	YECORA ROJO	13.09 (14)	13.04	12.18	13.19	13.76	13.14	10.24	15.23	13.94
788	EXPRESS	13.43 (9)	13.44	12.68	13.84	13.81	13.41	10.45	14.61	15.18
1156	BLANCA GRANDE	13.04 (15)	12.85	10.68	12.60	15.27	13.23	11.15	14.30	14.24
1340	MIKA	13.69 (6)	13.31	10.13	13.73	16.08	14.07	11.68	14.52	16.02
1361	CLEAR WHITE	12.66 (24)	12.78	10.67	12.41	15.25	12.55	10.05	13.32	14.28
1419	PATWIN	12.93 (17)	13.63	13.37	13.54	13.98	12.22	8.28	14.00	14.38
1424	JOAQUIN	13.47 (8)	13.35	10.12	14.26	15.66	13.60	10.58	14.71	15.50
1478	CAL ROJO	12.75 (21)	12.97	10.98	13.69	14.25	12.53	9.73	13.11	14.74
1495	LASSIK	12.57 (27)	12.59	11.48	13.08	13.20	12.56	11.61	12.51	13.55
1500	EXPRESSO	13.98 (3)	14.23	12.22	15.00	15.48	13.73	11.45	14.55	15.20
1521	REDWING	12.37 (29)	12.25	10.52	12.01	14.22	12.49	9.48	12.82	15.17
1522	BLANCA ROYALE	12.57 (26)	12.29	9.72	12.83	14.33	12.85	9.95	14.66	13.95
1523	BLANCA FUERTE	11.45 (33)	11.19	9.66	11.72	12.19	11.71	8.05	13.62	13.45
1548	CHRISTALLO	12.81 (19)	12.90	11.60	13.50	13.59	12.72	9.27	14.56	14.34
1555	LARIAT	12.67 (23)	12.33	9.51	13.45	14.02	13.00	11.71	13.57	13.73
1605	PALOMA	12.99 (16)	12.88	11.20	13.52	13.92	13.09	10.79	13.87	14.61
<u>ADVANCED LINES</u>										
1592	RSI 01W20153	13.41 (10)	13.72	12.21	13.68	15.27	13.10	8.91	15.01	15.39
1600	UCD 07013/30	12.25 (31)	12.33	9.63	13.31	14.06	12.16	9.30	13.01	14.18
1616	UCD 0810/5	12.70 (22)	12.58	11.46	12.66	13.61	12.82	9.91	14.67	13.87
1617	UCD 08013/1	13.73 (5)	13.65	12.47	13.71	14.76	13.82	10.88	15.24	15.34
1618	UCD 08013/24	12.29 (30)	12.39	11.41	12.63	13.12	12.18	10.04	12.84	13.67
1619	SONORA	12.44 (28)	13.44	12.50	13.50	14.33	11.44	7.83	12.97	13.51
1620	WIT WOLKORING	12.88 (18)	13.02	9.96	13.19	15.90	12.75	11.26	12.85	14.13
1621	WWW BR2306	12.62 (25)	12.64	11.42	12.58	13.93	12.60	11.59	13.23	12.99
1622	WWW IMI5345-4	13.48 (7)	13.33	13.04	13.51	13.43	13.63	12.04	14.37	14.48
1623	WB DA905-55	13.20 (13)	13.38	10.94	14.43	14.77	13.01	9.70	14.27	15.06
1624	WB DA905-10	12.76 (20)	12.45	10.45	13.03	13.87	13.07	9.92	14.18	15.11
1625	WB SJ905-162W	13.25 (12)	13.35	11.85	13.04	15.17	13.15	10.34	14.39	14.71
1626	RSI 06W30002	14.88 (1)	15.02	14.22	14.16	16.68	14.74	10.68	17.13	16.41
1636	APB W1-10	13.89 (4)	13.60	10.94	13.03	16.82	14.19	13.61	14.05	14.90
1637	APB W8-2	13.38 (11)	13.51	11.48	13.84	15.21	13.25	10.88	14.25	14.62
1638	APB W11-6	14.37 (2)	14.99	-	13.80	16.17	13.97	12.97	13.05	15.88

Grain Protein % expressed at 12% moisture

Numbers in parentheses indicate relative rank in column.

Table 30. 2009 KINGS COMMON WHEAT TEST, QUALITY EVALUATION

Entry Name	Wheat								Flour				Farinograph					Bread			
	Pro	Ash	Hard (NIR)	Test Wt	1000 Kwt	Kernel Size Dist. (200 g)			Yield	Pro	Ash	Fall No.	Wet Glut.	Absp	Arr	Mix Pk	MT	M.T.I.	Vol	Text	Score
						7W	10W	12W													
CULTIVARS																					
20 ANZA	12.91	1.39	70	63.1	36.6	173.5	26.0	0.5	71.3	11.68	0.37	395	33.5	62.0	2.00	4.00	5.50	40	850	s	2
112 YECORA ROJO	15.23	1.38	59	62.7	48.2	189.3	10.2	0.4	71.1	13.83	0.38	395	40.4	61.6	5.00	12.00	11.25	50	1040	s	5
788 EXPRESS	14.61	1.43	76	62.4	41.3	185.2	14.2	0.4	69.7	13.21	0.38	467	40.4	67.4	4.00	6.50	10.25	10	1000	s	5
1156 BLANCA GRANDE	14.30	1.38	57	63.7	47.5	191.4	8.2	0.3	70.4	12.80	0.36	452	36.4	67.8	6.25	10.00	7.75	50	1015	s	5
1340 MIKA	14.52	1.40	69	61.3	38.7	177.7	21.8	0.6	67.5	13.12	0.34	429	36.3	64.0	4.50	9.00	10.00	40	1000	s	5
1361 CLEAR WHITE	13.32	1.35	65	63.0	39.8	188.2	11.3	0.4	73.2	11.92	0.38	401	33.6	60.6	3.00	11.50	13.25	50	975	s	5
1419 PATWIN	14.00	1.38	84	61.2	37.1	175.4	23.8	0.6	67.9	12.49	0.41	462	35.3	66.8	3.75	8.00	10.50	40	915	s	4
1424 JOAQUIN	14.71	1.35	61	63.2	45.8	187.9	11.8	0.3	74.1	13.41	0.37	391	38.8	64.4	4.25	7.00	17.00	20	1000	s	5
1478 CAL ROJO	13.11	1.40	59	62.0	42.7	181.2	18.1	0.5	72.1	11.61	0.39	414	32.6	61.4	4.50	14.00	16.25	30	935	s	4
1495 LASSIK	12.51	1.25	72	62.0	34.7	153.9	44.7	0.7	75.4	11.11	0.38	361	33.2	62.2	3.50	7.00	14.50	30	875	s	3
1500 EXPRESSO	14.55	1.36	74	62.4	41.1	184.5	15.0	0.4	70.2	13.15	0.41	488	41.3	68.8	3.75	6.50	7.00	50	1025	s	5
1521 REDWING	12.82	1.22	77	61.5	46.3	191.4	8.1	0.4	70.4	11.42	0.38	403	32.4	66.0	2.50	9.50	29.00	10	900	s	4
1522 BLANCA ROYALE	14.66	1.30	71	61.8	39.8	181.7	18.4	0.4	70.3	13.36	0.37	440	39.2	64.0	4.00	8.50	7.00	60	1000	s	5
1523 BLANCA FUERTE	13.62	1.27	66	64.2	46.5	188.9	10.5	0.4	71.9	12.22	0.34	403	34.6	61.4	4.50	8.50	10.00	30	975	s	5
1548 CHRISTALLO	14.56	1.30	65	62.8	42.2	186.3	13.5	0.2	69.6	13.10	0.36	417	37.1	66.6	5.50	9.50	8.00	60	980	s	5
1555 LARIAT	13.57	1.26	66	62.1	39.0	161.4	38.0	0.5	69.0	12.07	0.39	361	33.2	59.2	4.50	9.00	8.00	60	960	s	5
1605 PALOMA	13.87	1.29	54	65.3	46.5	193.5	6.3	0.1	66.6	12.47	0.36	436	37.5	66.0	8.50	13.00	11.00	40	975	s	5
ADVANCED LINES																					
1592 RSI 01W20153	15.01	1.25	69	63.6	50.4	191.3	8.2	0.3	69.2	13.51	0.37	422	38.2	65.8	3.25	5.00	4.75	70	850	s	3
1600 UCD 07013/30	13.01	1.27	54	63.1	48.3	194.3	5.7	0.1	69.1	11.61	0.36	322	35.3	59.4	3.75	7.00	8.50	40	950	s	5
1616 UCD 0810/5	14.67	1.39	61	63.1	47.6	192.3	7.7	0.2	68.5	13.37	0.36	383	36.9	62.6	4.50	9.50	12.75	30	1020	s	5
1617 UCD 08013/1	15.24	1.52	75	61.6	43.0	192.3	7.3	0.3	67.8	14.04	0.36	430	38.0	64.8	4.00	7.50	9.50	30	940	s	4
1618 UCD 08013/24	12.84	1.33	68	62.7	38.0	180.1	19.3	0.4	73.5	11.34	0.37	374	36.8	67.0	4.00	10.50	15.50	20	1010	s	5
1619 SONORA	12.97	1.34	30	63.0	32.9	149.6	49.9	0.5	62.7	11.47	0.36	352	29.8	57.2	1.75	3.00	4.75	60	850	s-0	2
1620 WIT WOLKORING	12.85	1.45	44	63.1	34.5	172.0	27.5	0.3	65.9	11.45	0.40	420	34.4	59.2	3.00	6.00	13.00	20	900	s	4
1621 WWW BR2306	13.23	1.46	68	61.6	48.3	181.9	17.4	0.6	72.3	11.83	0.36	346	36.2	63.0	4.50	12.00	18.00	10	930	s	4
1622 WWW IMI5345-4	14.37	1.37	79	61.2	39.7	182.2	17.5	0.2	71.8	12.97	0.37	445	37.5	65.6	5.00	15.00	21.00	--	950	s	5
1623 WB DA905-55	14.27	1.42	75	62.7	42.0	180.2	19.4	0.2	69.5	12.77	0.40	378	37.6	71.0	5.00	7.50	7.00	40	1025	s	5
1624 WB DA905-10	14.18	1.42	69	62.2	42.8	185.3	14.3	0.3	68.9	12.63	0.43	349	39.3	64.8	4.50	8.00	10.50	20	1025	s	5
1625 WB SJ905-162W	14.39	1.49	67	63.3	45.7	192.3	7.4	0.3	69.2	12.99	0.38	359	34.7	68.0	13.00	23.00	16.50	20	985	s	5
1626 RSI 06W30002	17.13	1.55	48	60.5	44.4	194.3	5.5	0.1	66.2	15.73	0.35	455	40.1	65.8	5.00	10.00	9.50	40	1075	s	5
1636 APB W1-10	14.05	1.49	66	62.3	47.7	188.5	11.0	0.4	71.5	12.55	0.38	356	37.3	66.0	5.25	10.00	10.00	40	1050	s	5
1637 APB W8-2	14.25	1.49	69	62.1	42.3	189.0	10.7	0.2	69.2	12.85	0.39	451	37.0	61.2	3.75	7.00	11.50	40	1000	s	5
1638 APB W11-6	13.05	1.50	47	62.6	50.3	193.0	6.7	0.2	70.5	11.55	0.37	390	38.3	66.0	5.75	8.50	8.00	60	965	s	5

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 (e = Excellent, s = Satisfactory, q = Questionable, u = Unsatisfactory);

Score: 5 = Excellent, 4 = Satisfactory, 3 = Satisfactory to questionable, 2 = Questionable, 1 = Unsatisfactory

Table 31. 2009 UCD COMMON WHEAT TEST, QUALITY EVALUATION

Entry Name	Wheat								Flour				Farinograph					Bread			
	Pro	Ash	Hard	Test	1000	Kernel Size Dist. (200 g)			Yield	Pro	Ash	Fall	Wet	Absp	Arr	Mix	MT	M.T.I.	Vol	Text	Score
			(NIR)	Wt	Kwt	7W	10W	12W				No.	Glut.			Pk					
CULTIVARS																					
20 ANZA	11.87	1.48	71	62.6	33.8	152.0	45.7	1.5	73.7	10.25	0.43	399	30.5	61.4	1.75	3.00	4.00	80	765	u	1
112 YECORA ROJO	13.19	1.27	65	61.4	40.3	169.6	29.2	0.8	73.1	11.81	0.41	461	33.9	61.0	2.00	8.00	27.00	20	975	s	5
788 EXPRESS	13.84	1.56	69	62.6	40.4	174.2	24.8	0.6	69.8	12.34	0.37	453	37.6	65.4	4.00	6.00	12.25	20	990	s	5
1156 BLANCA GRANDE	12.60	1.40	60	63.8	44.0	184.5	14.7	0.6	71.9	11.08	0.36	438	31.1	67.2	8.50	18.50	17.75	30	975	s	5
1340 MIKA	13.73	1.51	69	61.9	41.5	169.6	29.6	0.7	68.5	12.23	0.36	420	34.0	61.4	3.00	7.50	27.00	20	975	s	5
1361 CLEAR WHITE	12.41	1.46	62	63.2	40.5	180.9	17.8	1.0	73.7	10.91	0.39	444	31.4	58.8	1.25	7.00	20.75	20	900	s	4
1419 PATWIN	13.54	1.48	83	61.7	36.5	163.9	35.6	0.5	71.4	12.14	0.45	395	33.5	64.6	3.00	7.00	16.75	15	910	s	4
1424 JOAQUIN	14.26	1.47	64	63.3	44.6	186.2	13.3	0.4	74.5	12.86	0.39	452	36.9	65.8	6.25	16.50	18.25	20	985	s	4
1478 CAL ROJO	13.69	1.43	56	62.3	42.9	182.6	16.5	0.6	71.3	12.25	0.36	414	32.4	61.6	4.50	15.00	35.50	10	945	s	4
1495 LASSIK	13.08	1.47	68	63.3	36.2	167.3	31.3	1.0	71.3	11.58	0.35	405	32.8	63.2	4.00	10.00	13.25	30	925	s	4
1500 EXPRESSO	15.00	1.56	63	62.6	39.5	177.9	21.8	0.2	69.2	13.54	0.38	473	39.3	66.0	3.75	7.00	11.25	20	1050	s	5
1521 REDWING	12.01	1.49	74	62.3	40.9	185.3	14.1	0.4	70.5	10.47	0.41	460	31.9	63.2	1.50	7.00	19.75	20	950	s	5
1522 BLANCA ROYALE	12.83	1.44	66	62.6	40.4	173.0	26.3	0.5	68.7	11.33	0.36	432	31.6	59.8	25.00	8.00	31.50	10	875	s	3
1523 BLANCA FUERTE	11.72	1.43	68	64.5	45.0	176.9	21.6	1.2	71.4	10.22	0.40	455	27.6	60.0	1.25	2.00	19.50	20	925	s	4
1548 CHRISTALLO	13.50	1.50	63	63.8	43.4	183.7	15.7	0.3	70.8	12.00	0.35	435	33.9	64.0	4.00	9.50	18.00	20	1000	s	5
1555 LARIAT	13.45	1.49	64	63.7	42.2	175.2	24.0	0.4	69.8	12.25	0.35	433	34.5	60.0	7.00	11.00	7.25	70	915	s	4
1605 PALOMA	13.31	1.34	57	62.3	45.2	190.5	9.4	0.1	68.9	11.71	0.40	439	34.2	60.4	2.50	8.50	15.25	20	960	s	5
	13.52	1.38	62	63.1	40.6	174.7	24.3	0.6	69.7	12.22	0.43	443	30.2	60.4	1.75	7.50	28.50	20	900	s	4
ADVANCED LINES																					
1592 RSI 01W20153																					
1600 UCD 07013/30	13.68	1.41	68	63.7	47.9	185.8	13.6	0.5	71.5	12.28	0.38	413	33.9	62.4	2.75	5.00	9.50	20	910	s	4
1616 UCD 0810/5	12.66	1.34	65	64.8	45.6	186.7	12.9	0.2	73.6	11.36	0.39	470	30.7	60.2	2.50	7.50	13.50	20	900	s	4
1617 UCD 08013/1	13.71	1.53	73	62.4	42.6	184.7	15.0	0.3	69.8	12.41	0.46	460	37.2	62.2	2.25	5.00	16.25	20	820	s	2
1618 UCD 08013/24	12.63	1.43	66	63.9	39.2	175.5	23.5	1.0	72.3	11.23	10.36	396	31.0	63.0	3.75	6.00	5.50	70	920	s	4
1619 SONORA	13.50	1.65	29	62.7	36.8	168.7	30.9	0.5	58.0	12.00	0.37	434	34.6	59.6	2.50	6.00	9.50	20	900	s	4
1620 WIT WOLKORING	13.19	1.47	42	62.9	35.9	168.5	30.8	0.5	62.6	11.69	0.51	396	38.3	59.4	2.25	4.50	9.00	40	900	s	4
1621 WWW BR2306	12.58	1.44	74	60.5	39.4	158.4	40.4	0.9	69.3	11.18	0.43	434	33.9	61.6	3.00	13.00	40.00	20	845	s	2
1622 WWW IMI5345-4	13.51	1.47	72	60.8	39.3	170.4	28.6	0.9	69.4	12.21	0.39	443	32.8	63.6	2.25	15.00	24.75	10	925	s	4
1623 WB DA905-55	14.43	1.50	68	63.9	43.1	183.4	16.0	0.3	69.7	13.03	0.37	457	31.2	62.2	4.00	5.50	10.00	20	925	s	4
1624 WB DA905-10	13.03	1.42	66	63.1	42.5	181.3	18.0	0.5	70.5	11.63	0.41	459	31.3	62.6	3.00	10.00	12.25	40	970	s	5
1625 WB SJ905-162W	13.04	1.41	66	62.9	44.2	184.8	14.6	0.5	68.6	11.54	0.41	505	31.0	66.4	19.00	27.50	19.00	20	950	s	5
1626 RSI 06W30002	14.16	1.65	46	62.8	47.8	189.7	9.7	0.6	68.6	12.86	0.38	384	30.8	64.0	5.00	9.50	14.00	30	985	s	5
1636 APB W1-10	13.03	1.51	65	62.4	47.7	186.0	13.7	0.4	73.2	11.53	0.36	391	33.0	64.0	3.50	9.00	15.00	20	940	s	4
1637 APB W8-2	13.84	1.44	70	62.7	40.7	177.7	21.8	0.4	72.0	12.44	0.40	496	32.4	60.4	1.75	9.00	16.75	20	910	s	4
1638 APB W11-6	13.80	1.45	52	61.9	47.0	191.2	8.2	0.3	68.8	12.40	0.34	431	36.0	65.2	7.50	19.00	20.00	20	960	s	5

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 (e = Excellent, s = Satisfactory, q = Questionable, u = Unsatisfactory);

Score: 5 = Excellent, 4 = Satisfactory, 3 = Satisfactory to questionable, 2 = Questionable, 1 = Unsatisfactory

Table 32. 2009 AND 2007-09 COMMON WHEAT AND TRITICALE YIELD SUMMARY (LBS/ACRE)

Entry	Name	Sacramento Valley			San Joaquin Valley			Imperial Valley			Rainfed Tests		
		2009 (3 Loc)	2008-09 (6 Loc/Yr)	2007-09 (9 Loc/Yr)	2009 (3 Loc)	2008-09 (6 Loc/Yr)	2007-09 (9 Loc/Yr)	2009 (1 Loc)	2008-09 (2 Loc/Yr)	2007-09 (3 Loc/Yr)	2009 (2 Loc)	2008-09 (3 Loc/Yr)	2007-09 (5 Loc/Yr)
CULTIVARS													
20	ANZA	4500 (23)	4970 (16)	5310 (13)	4680 (23)	5060 (16)	5170 (14)	6370 (9)	6810 (6)	6640 (3)	1730 (25)	1930 (14)	1800 (11)
112	YECORA ROJO	3830 (26)	3710 (19)	4370 (16)	4110 (29)	4970 (17)	5140 (16)	5310 (20)	6050 (13)	5900 (10)	1880 (16)	2080 (11)	1960 (9)
788	EXPRESS	4810 (21)	4440 (17)	4890 (14)	4460 (27)	4810 (19)	5230 (13)	7170 (5)	6600 (11)	6320 (7)	2080 (11)	2230 (9)	2100 (6)
1156	BLANCA GRANDE	4750 (22)	5160 (15)	5590 (11)	5490 (5)	6060 (3)	6230 (2)	7090 (6)	6800 (7)	6340 (6)	2170 (6)	2420 (3)	2240 (5)
1340	MIKA	4410 (25)	4390 (18)	4850 (15)	4560 (25)	4960 (18)	5240 (12)	5770 (15)	5390 (18)	5180 (13)	1730 (25)	1890 (16)	1760 (12)
1361	CLEAR WHITE	5470 (11)	5860 (11)	5990 (9)	5130 (13)	5380 (13)	5310 (11)	6790 (8)	6490 (12)	6100 (9)	2120 (7)	2240 (7)	2060 (8)
1419	PATWIN	5870 (4)	6400 (6)	6460 (4)	5160 (11)	5800 (6)	5610 (8)	7590 (2)	7140 (3)	6680 (2)	1880 (16)	1870 (17)	1960 (9)
1424	JOAQUIN	5620 (8)	6190 (7)	6460 (4)	5210 (9)	5480 (11)	5870 (5)	4550 (24)	5620 (16)	5490 (12)	2090 (9)	2440 (1)	2270 (4)
1478	CAL ROJO	5540 (10)	6440 (5)	6580 (3)	5530 (4)	6020 (4)	5750 (7)	4520 (25)	5460 (17)	5520 (11)	2200 (4)	2360 (4)	2280 (3)
1495	LASSIK	5380 (15)	6090 (8)	6320 (6)	5790 (1)	5850 (5)	5920 (4)	6330 (10)	7070 (4)	6440 (5)	1510 (28)	1700 (18)	1630 (14)
1500	EXPRESSO	5220 (19)	5270 (14)	5450 (12)	4870 (19)	5070 (15)	5160 (15)	7260 (4)	6750 (8)	6220 (8)	2090 (9)	2240 (7)	2090 (7)
1521	REDWING	6210 (3)	6610 (3)	6790 (2)	5790 (1)	6240 (2)	6470 (1)	6090 (13)	6720 (9)	-	1910 (15)	2170 (10)	-
1522	BLANCA ROYALE	5420 (14)	5990 (10)	6270 (8)	5190 (10)	5600 (8)	5850 (6)	5680 (18)	5760 (14)	-	1810 (23)	2060 (12)	-
1523	BLANCA FUERTE	6380 (1)	7080 (1)	7250 (1)	5160 (11)	5790 (7)	5980 (3)	5880 (14)	6830 (5)	6510 (4)	2430 (1)	2430 (2)	2330 (2)
1548	CHRISTALLO	5830 (5)	6020 (9)	6320 (6)	5120 (15)	5290 (14)	5590 (10)	8440 (1)	7760 (1)	6910 (1)	1960 (14)	2310 (6)	2410 (1)
1550	TRIPLE IV	-	-	-	-	-	-	-	-	-	1630 (27)	1930 (14)	1720 (13)
1555	LARIAT	5350 (18)	5570 (12)	5920 (10)	5000 (16)	5420 (12)	5600 (9)	5720 (16)	5670 (15)	-	1860 (18)	1960 (13)	-
1605	PALOMA	5360 (17)	5340 (13)	-	4980 (17)	5580 (9)	-	-	-	-	-	-	-
ADVANCED LINES													
1592	RSI 01W20153	5370 (16)	6490 (4)	-	5680 (3)	6580 (1)	-	6190 (11)	6640 (10)	-	2280 (2)	-	-
1600	UCD 07013/30	5790 (6)	6710 (2)	-	4930 (18)	5520 (10)	-	7430 (3)	7360 (2)	-	2190 (5)	2360 (4)	-
1616	UCD 0810/5	5550 (9)	-	-	5310 (8)	-	-	6870 (7)	-	-	2250 (3)	-	-
1617	UCD 08013/1	5650 (7)	-	-	4730 (21)	-	-	5520 (19)	-	-	2000 (13)	-	-
1618	UCD 08013/24	5470 (11)	-	-	5420 (7)	-	-	6180 (12)	-	-	1840 (21)	-	-
1619	SONORA	1760 (33)	-	-	3210 (33)	-	-	2150 (28)	-	-	990 (30)	-	-
1620	WIT WOLKORING	1850 (32)	-	-	3310 (32)	-	-	2270 (27)	-	-	1010 (29)	-	-
1621	WWW BR2306	3450 (30)	-	-	3780 (31)	-	-	2110 (29)	-	-	1790 (24)	-	-
1622	WWW IMI5345-4	3640 (27)	-	-	4290 (28)	-	-	3380 (26)	-	-	1850 (19)	-	-
1623	WB DA905-55	5470 (11)	-	-	5130 (13)	-	-	-	-	-	-	-	-
1624	WB DA905-10	6320 (2)	-	-	5430 (6)	-	-	-	-	-	-	-	-
1625	WB SJ905-162W	5200 (20)	-	-	4720 (22)	-	-	-	-	-	-	-	-
1626	RSI 06W30002	4420 (24)	-	-	4540 (26)	-	-	5720 (16)	-	-	2110 (8)	-	-
1636	APB W1-10	3580 (28)	-	-	4780 (20)	-	-	5190 (21)	-	-	1850 (19)	-	-
1637	APB W8-2	3580 (28)	-	-	4670 (24)	-	-	4960 (22)	-	-	2020 (12)	-	-
1638	APB W11-6	3260 (31)	-	-	4020 (30)	-	-	4780 (23)	-	-	1840 (21)	-	-
TRITICALE													
3097	TRICAL BRAND 105	6210 (4)	6930 (4)	7130 (2)	5460 (3)	5250 (4)	5540 (2)	6800 (4)	6990 (4)	6670 (2)	2030 (4)	1960 (5)	1920 (3)
3156	TRICAL BRAND 118	7130 (2)	7780 (2)	7910 (1)	5510 (2)	5340 (3)	5780 (1)	5860 (5)	5910 (5)	5720 (3)	2190 (2)	2230 (2)	2270 (1)
3158	TRICAL BRAND 98	5310 (5)	6410 (5)	6930 (3)	4520 (5)	4400 (5)	4950 (3)	8190 (1)	7480 (3)	6930 (1)	2050 (3)	2090 (3)	2240 (2)
3163	TRICAL BRAND 110	7230 (1)	8090 (1)	-	6250 (1)	6100 (1)	-	7610 (2)	7830 (1)	-	2400 (1)	2360 (1)	-
3164	PACHECO	6750 (3)	7490 (3)	-	4790 (4)	5570 (2)	-	7160 (3)	7630 (2)	-	1930 (5)	2090 (3)	-
MEAN		5080	6060	6150	4910	5670	5690	5850	6640	6220	1930	2150	2060
CV		11.8	9.5	8.4	11.9	12.4	11.7	10.1	8.2	8.2	20.4	17.7	18.3
LSD (.05)		480	330	240	470	440	330	830	540	410	390	310	240

Numbers in parentheses indicate relative rank.

Table 33.2009 UC INTERMOUNTAIN SPRING WHEAT TEST
(2009 Oregon Spring Elite Yield Trial - OSEYT)

Entry	Variety	Class	Origin / Developer
1	Bullseye (B02-0081)	HRS	AgriPro
2	Cabernet	HRS	Resource Seeds
3	NPBHR 70	HRS	Resource Seeds
4	Hank	HRS	WestBred
5	BZ901-717	HRS	WestBred
6	OR4990114	HRS	OSU
7	OR4031177	HRS	OSU
8	Jefferson	HRS	UI
9	UI Winchester	HRS	UI
10	IDO 702	HRS	UI
11	WA007954 (Kelse)	HRS	WSU
12	10348W	HWS	Resource Seeds
13	Blanca Grande	HWS	CA
14	IDO377S	HWS	UI
15	OR4051328	HWS	OSU
16	Merrill	SWS	Merrill Lewis
17	Cleda	SWS - Forage	Merrill Lewis
18	Nick	SWS	WestBred
19	BZ604-002	SWS	WestBred
20	Alpowa	SWS	WSU
21	WA008008 (Whit)	SWS	WSU
22	WA008039	SWS	WSU
23	WA008047	SWS - Club	WSU
24	WA008090	SWS	WSU
25	Alturas	SWS	UI
26	UI Cataldo	SWS	UI
27	IDO 671	SWS	UI
28	IDO 599	SWS	UI
29	IDO 644	SWS	UI
30	OR4041451	SWS	OSU
31	Espresso	HRS	WestBred
32	Petit	SWS	UI

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

2 locations: UC IREC (Tulelake), Siskiyou (Scott Valley);

Table 34. 2009 LASSEN SPRING WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)
1	Bullseye (B02-0081	2700 (22)	62.4	24
2	Cabernet	2610 (25)	61.3	24
3	NPBHR 70	2530 (28)	57.3	29
4	Hank	2720 (20)	58.3	26
5	BZ901-717	3210 (7)	59.4	31
6	OR4990114	3140 (9)	56.4	30
7	OR4031177	2630 (24)	58.9	31
8	Jefferson	2740 (19)	60.3	27
9	UI Winchester	2570 (27)	59.7	26
10	IDO 702	2760 (17)	57.5	32
11	WA007954 (Kelse)	2460 (29)	59.6	29
12	10348W	2910 (12)	61.2	25
13	Blanca Grande	2750 (18)	62.6	23
14	IDO377S	3920 (1)	60.7	29
15	OR4051328	2590 (26)	55.1	26
16	Merrill	2110 (30)	57.2	28
17	Cleda	2700 (23)	58.2	29
18	Nick	2970 (11)	59.5	26
19	BZ604-002	2850 (14)	61.5	25
20	Alpowa	2770 (16)	60.9	26
21	WA008008 (Whit)	2780 (15)	57.4	25
22	WA008039	3610 (3)	58.7	29
23	WA008047	2990 (10)	59.4	28
24	WA008090	2900 (13)	55.6	32
25	Alturas	3200 (8)	56.9	28
26	UI Cataldo	3330 (5)	57.9	26
27	IDO 671	3620 (2)	58.4	28
28	IDO 599	3410 (4)	58.7	33
29	IDO 644	2720 (21)	59.8	24
30	OR4041451	2090 (31)	58.2	31
31	Expresso	1740 (32)	57.0	26
32	Petit	3310 (6)	60.4	25
	MEAN	2850	58.9	27
	CV	18.4	2.5	8.9
	LSD (.05)	860	3	5

Numbers in parentheses indicate relative rank in column.

Table 35. 2009 TULELAKE INTERMOUNTAIN SPRING WHEAT TEST
(2009 Oregon Spring Elite Yield Trial - OSEYT)

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust	
						11-Aug	4-Aug
1	Bullseye (B02-0081	6180 (26)	64.1	35	6.7	1.0	1.0
2	Cabernet	7930 (11)	63.2	33	1.0	1.0	1.0
3	NPBHR 70	7590 (16)	61.2	41	1.0	1.0	1.0
4	Hank	8470 (7)	61.6	40	1.0	1.0	1.0
5	BZ901-717	7820 (14)	62.3	41	1.0	1.0	1.0
6	OR4990114	8580 (5)	61.9	40	1.0	1.0	1.0
7	OR4031177	6110 (27)	63.7	40	2.7	1.0	1.0
8	Jefferson	7590 (17)	62.4	38	2.3	1.0	1.0
9	UI Winchester	6060 (29)	62.0	36	5.3	1.0	1.0
10	IDO 702	7890 (13)	62.3	41	1.3	1.0	1.0
11	WA007954 (Kelse)	7240 (20)	62.3	40	1.0	1.0	1.0
12	10348W	7590 (18)	62.9	39	2.0	1.0	1.3
13	Blanca Grande	8160 (9)	64.4	35	1.0	2.0	2.0
14	IDO377S	6640 (24)	62.6	38	7.0	1.0	1.0
15	OR4051328	7540 (19)	61.0	36	2.0	1.0	1.0
16	Merrill	6870 (23)	60.5	42	1.7	1.0	1.0
17	Cleda	6070 (28)	61.0	42	4.3	1.0	1.0
18	Nick	7170 (21)	62.4	41	5.0	1.3	1.0
19	BZ604-002	8460 (8)	63.0	43	2.3	1.0	1.0
20	Alpowa	6290 (25)	62.5	40	5.0	1.0	1.0
21	WA008008 (Whit)	7890 (12)	62.1	39	2.7	1.0	1.0
22	WA008039	6900 (22)	62.8	41	6.3	1.0	1.0
23	WA008047	5740 (30)	63.6	44	6.7	1.0	1.0
24	WA008090	4310 (32)	60.1	38	7.7	1.0	1.0
25	Alturas	7770 (15)	61.9	42	4.3	1.0	1.3
26	UI Cataldo	8780 (2)	61.7	41	1.0	1.0	1.0
27	IDO 671	8680 (3)	62.1	42	1.7	1.0	1.0
28	IDO 599	9260 (1)	62.0	38	2.0	1.0	1.7
29	IDO 644	8100 (10)	61.1	40	3.0	1.0	1.7
30	OR4041451	5070 (31)	60.7	43	6.0	1.0	1.3
31	Expresso	8490 (6)	62.8	36	1.0	1.0	1.0
32	Petit	8650 (4)	61.8	36	1.0	1.3	1.0
	MEAN	7370	39	39	3.1	1.1	1.1
	CV	9.6	3.9	3.9	35.2	32.1	34.9
	LSD (.05)	1160	3	3	1.8	ns	ns

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.

Table 36. 2009 INTERMOUNTAIN SPRING WHEAT YIELD SUMMARY (LBS/ACI)
(2009 Oregon Spring Elite Yield Trial - OSEYT)

Entry	Name	Mean (2 Loc)	Lassen	Tulelake
1	Bullseye (B02-0081	4440 (26)	2700 (22)	6180 (26)
2	Cabernet	5270 (15)	2610 (25)	7930 (11)
3	NPBHR 70	5060 (22)	2530 (28)	7590 (16)
4	Hank	5590 (7)	2720 (20)	8470 (7)
5	BZ901-717	5520 (8)	3210 (7)	7820 (14)
6	OR4990114	5860 (5)	3140 (9)	8580 (5)
7	OR4031177	4370 (28)	2630 (24)	6110 (27)
8	Jefferson	5160 (18)	2740 (19)	7590 (17)
9	UI Winchester	4310 (30)	2570 (27)	6060 (29)
10	IDO 702	5320 (13)	2760 (17)	7890 (13)
11	WA007954 (Kelse)	4850 (23)	2460 (29)	7240 (20)
12	10348W	5250 (17)	2910 (12)	7590 (18)
13	Blanca Grande	5450 (10)	2750 (18)	8160 (9)
14	IDO377S	5280 (14)	3920 (1)	6640 (24)
15	OR4051328	5060 (21)	2590 (26)	7540 (19)
16	Merrill	4490 (25)	2110 (30)	6870 (23)
17	Cleda	4380 (27)	2700 (23)	6070 (28)
18	Nick	5070 (20)	2970 (11)	7170 (21)
19	BZ604-002	5650 (6)	2850 (14)	8460 (8)
20	Alpowa	4530 (24)	2770 (16)	6290 (25)
21	WA008008 (Whit)	5330 (12)	2780 (15)	7890 (12)
22	WA008039	5260 (16)	3610 (3)	6900 (22)
23	WA008047	4360 (29)	2990 (10)	5740 (30)
24	WA008090	3610 (31)	2900 (13)	4310 (32)
25	Alturas	5480 (9)	3200 (8)	7770 (15)
26	UI Cataldo	6050 (3)	3330 (5)	8780 (2)
27	IDO 671	6150 (2)	3620 (2)	8680 (3)
28	IDO 599	6340 (1)	3410 (4)	9260 (1)
29	IDO 644	5410 (11)	2720 (21)	8100 (10)
30	OR4041451	3580 (32)	2090 (31)	5070 (31)
31	Expresso	5110 (19)	1740 (32)	8490 (6)
32	Petit	5980 (4)	3310 (6)	8650 (4)
	MEAN	5120	2850	7370
	CV	12.2	18.4	9.6
	LSD (.05)	710	860	1160

Numbers in parentheses indicate relative rank in column.

Table 37. 2009 UC REGIONAL DURUM WHEAT ENTRY LIST

Entry	Name	Parentage	Sites	Source
<u>CULTIVARS</u>				
878	DURAKING	MSFRS QUALITY DESERT DURUM POPULATION	ALL	WWW
951	KRONOS	APB MSFRS POP SEL (D03-21)	ALL	APB
1166	CROWN	MSFRS QUALITY DESERT DURUM POPULATION	ALL	WWW
1210	PLATINUM	MSFRS QUALITY DESERT DURUM POPULATION	ALL	WWW
1215	ORITA	PH 888-118-5/WPB 881 (YU 895-89)	Imperial	WB
1375	DESERT KING	Selection of INTER-11	ALL	UC
1429	FORTISSIMO	VIC/LDS//ALDURA/881	ALL	RSI
1430	RSI 59	ALDURA/881//MEX75	Imperial	RSI
1431	VOLANTE	ALDURA/881//CND	ALL	RSI
1473	Q-MAX	MSFRS Desert Durum Quality Population	ALL	WWW
1479	HAVASU	Kofa//Mohawk//Express/Karl	Imperial	WB
1484	WESTMORE	B.C. Selection UCD High Protein x APB 257	ALL	APB
1582	MAESTRALE		ALL	ALLSTAR
1583	SARAGOLLA		ALL	ALLSTAR
<u>ADVANCED LINES</u>				
1506	WWW D6575D		ALL	WWW
1542	WB YU 803-42	PH896-74/TACNA	Imperial	WB
1543	WB YU 803-52	PH896-74/YU897-48	Imperial	WB
1544	WB YU 803-54	PH896-74/YU897-48	Imperial	WB
1585	UCD 06222/53	Kofa/UC1113//UC1113	ALL	UC
1598	UCD 06222/52	Kofa/UC1113//UC1113	ALL	UC
1606	WB DA804-24	KOFA/TACNA//PLATINUM	ALL	WB
1607	WB YU802-4	KOFA/ORITA//DURAKING	Imperial	WB
1613	APB DO4AZ-335	Low input x MSFRS Population	ALL	APB
1627	UCD 08201/18	Desert King Gpc BC5	ALL	UC
1628	UCD 08201/20	APB D95-434/UC1113	ALL	UC
1629	UCD 08201/21	Mohawk/UC1113	ALL	UC
1630	BLUE BEARD	WGC-063	ALL	WGC
1631	DURUM IRAQ	PI 481581 (WGC-062)	ALL	WGC
1632	WB SJ806-13	YU896-74/ORITA//PLATINUM	ALL	WB
1633	WB YU805-17	YU895-13/YU899-28//YU899-158	Imperial	WB
1634	WB YU805-84	TACNA/KOFA//YU895-99/3/YU800-6	Imperial	WB
1635	RSI 07W60083	MOHAWK/FORTISSIMO	ALL	RSI
1639	APB D1-1-5P	D94-1 x MSFRS Population 5-Points CA	ALL	APB
1640	APB D1-2	D94-1 x MSFRS Population Az	ALL	APB
1641	APB D2-97	Yield and color x MSFRS Population Az	ALL	APB

35 ENTRIES

SOURCE: ALLSTAR = All-Star Seed Co.; APB = Arizona Plant Breeders; RSI = Resource Seeds, Inc.; UC = University of California; WB = Westbred, LLC; WWW = World Wide Wheat; WGC = Whole Grain Connection

Table 38. 2009 UCD DURUM WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Septoria	Stripe Rust	Powdery Mildew
CULTIVARS								
878	DURAKING	7030 (5)	62.1	36	1.3	1.0	2.8	4.3
951	KRONOS	6060 (24)	61.4	39	5.0	1.0	3.0	5.3
1166	CROWN	7380 (3)	61.5	38	1.8	1.3	1.5	3.5
1210	PLATINUM	6690 (10)	62.8	34	1.0	1.0	1.0	5.3
1375	DESERT KING	7420 (2)	63.3	37	1.0	1.0	1.3	4.0
1429	FORTISSIMO	6840 (9)	63.5	35	1.3	1.0	1.0	3.0
1431	VOLANTE	6410 (20)	63.5	33	1.3	1.0	1.0	4.3
1473	Q-MAX	7130 (4)	62.0	39	2.0	1.3	1.3	3.0
1484	WESTMORE	7030 (6)	63.6	38	3.3	1.0	1.0	4.0
1582	MAESTRALE	6370 (22)	63.2	40	4.3	1.0	1.0	1.5
1583	SARAGOLLA	7440 (1)	63.9	36	2.0	1.0	3.0	2.5
ADVANCED LINES								
1506	WWW D6575D	6870 (8)	62.2	35	1.5	1.0	1.0	3.8
1585	UCD 06222/53	6480 (18)	63.7	36	5.5	1.0	4.3	1.0
1598	UCD 06222/52	6520 (14)	62.8	40	3.3	1.0	4.8	1.5
1606	WB DA804-24	6560 (13)	63.0	36	2.8	1.0	2.5	3.8
1613	APB DO4AZ-335	6410 (21)	62.3	32	2.0	1.8	1.3	4.0
1627	UCD 08201/18	6480 (17)	61.8	36	1.0	1.0	1.0	3.3
1628	UCD 08201/20	6620 (11)	63.1	38	3.0	1.0	1.5	4.5
1629	UCD 08201/21	6580 (12)	63.9	32	3.0	1.0	1.0	6.0
1630	BLUE BEARD	1240 (26)	59.2	56	8.0	1.0	1.8	1.0
1631	DURUM IRAQ	1920 (25)	61.5	54	7.8	1.0	1.3	1.0
1632	WB SJ806-13	6420 (19)	64.4	35	3.8	1.3	2.0	2.8
1635	RSI 07W60083	6320 (23)	63.0	36	2.5	1.0	3.3	2.3
1639	APB D1-1-5P	6520 (15)	63.7	37	2.3	1.0	1.0	7.3
1640	APB D1-2	6510 (16)	63.0	33	3.5	1.0	1.0	3.8
1641	APB D2-97	6920 (7)	63.6	38	2.8	1.0	1.3	6.3
	MEAN	6310	62.8	37	2.9	1.1	1.8	3.6
	CV	12.7	1.6	5.6	49.9	24.3	30.0	57.6
	LSD (.05)	1130	2.0	4.0	2.1	ns	0.8	2.9

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.

Table 39. 2009 FRESNO COUNTY DURUM WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Septoria	Stripe Rust	Powdery Mildew
CULTIVARS								
878	DURAKING	7220 (1)	62.7	33	1.5	1.5	1.0	2.0
951	KRONOS	6570 (15)	61.9	31	3.8	1.0	1.0	1.0
1166	CROWN	6670 (11)	61.0	37	1.0	1.0	1.0	2.0
1210	PLATINUM	6680 (10)	62.5	33	1.3	1.3	1.0	1.0
1375	DESERT KING	6510 (18)	63.3	36	1.0	1.0	1.0	1.0
1429	FORTISSIMO	7080 (3)	63.0	34	1.0	1.0	1.0	1.0
1431	VOLANTE	6730 (8)	63.2	34	1.0	1.0	1.0	1.0
1473	Q-MAX	6310 (21)	61.2	40	1.0	1.0	1.0	1.0
1484	WESTMORE	6640 (12)	61.9	36	1.8	1.0	1.0	1.0
1582	MAESTRALE	6020 (24)	63.7	34	2.0	1.0	1.0	1.0
1583	SARAGOLLA	7150 (2)	63.4	37	1.3	1.0	1.0	1.0
ADVANCED LINES								
1506	WWW D6575D	6730 (9)	63.3	34	1.8	1.3	1.0	1.0
1585	UCD 06222/53	6930 (5)	64.0	36	4.8	1.0	1.3	1.0
1598	UCD 06222/52	6340 (20)	63.2	36	4.5	1.3	2.0	1.0
1606	WB DA804-24	6510 (17)	63.0	34	2.5	1.5	1.0	1.0
1613	APB DO4AZ-335	6220 (22)	61.0	30	1.5	1.3	1.0	1.5
1627	UCD 08201/18	6220 (23)	61.4	33	1.3	1.0	1.0	1.0
1628	UCD 08201/20	6870 (6)	63.2	35	2.0	1.0	1.0	1.0
1629	UCD 08201/21	6860 (7)	64.2	33	3.0	1.0	1.0	1.0
1630	BLUE BEARD	2220 (26)	63.0	51	6.8	1.0	1.0	1.0
1631	DURUM IRAQ	3210 (25)	63.2	51	5.8	1.0	1.0	1.0
1632	WB SJ806-13	6570 (16)	63.9	34	1.5	1.0	1.0	1.0
1635	RSI 07W60083	6620 (13)	63.1	36	1.3	1.0	1.0	1.0
1639	APB D1-1-5P	6410 (19)	64.1	34	2.5	1.3	1.0	1.0
1640	APB D1-2	6960 (4)	61.6	32	2.0	1.0	1.0	1.0
1641	APB D2-97	6610 (14)	62.6	35	3.5	1.0	1.0	2.8
	MEAN	6340	62.8	35	2.3	1.1	1.0	1.2
	CV	8.5	0.8	8.8	47.2	27.7	28.1	76.5
	LSD (.05)	760	1.0	5.0	1.6	ns	0.4	ns

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.

Table 40. 2009 KINGS COUNTY DURUM WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust
<u>CULTIVARS</u>						
878	DURAKING	2630 (16)	62.2	29	1.0	1.3
951	KRONOS	2560 (17)	60.7	30	1.0	1.0
1166	CROWN	3010 (2)	60.7	31	1.0	1.0
1210	PLATINUM	2680 (12)	58.5	29	1.0	1.0
1375	DESERT KING	2550 (19)	61.0	33	1.0	1.0
1429	FORTISSIMO	2790 (6)	61.1	31	1.0	1.0
1431	VOLANTE	2890 (5)	62.5	29	1.0	1.0
1473	Q-MAX	2950 (3)	61.0	33	1.0	1.0
1484	WESTMORE	2500 (20)	60.1	30	1.3	1.0
1582	MAESTRALE	2640 (14)	61.2	33	1.5	2.0
1583	SARAGOLLA	2920 (4)	62.4	30	1.0	1.0
<u>ADVANCED LINES</u>						
1506	WWW D6575D	2780 (8)	61.2	34	1.0	1.0
1585	UCD 06222/53	2550 (18)	61.7	32	1.3	3.0
1598	UCD 06222/52	2650 (13)	60.5	29	1.0	3.5
1606	WB DA804-24	2630 (15)	60.4	30	1.0	1.0
1613	APB DO4AZ-335	2700 (11)	61.0	27	1.0	1.0
1627	UCD 08201/18	2360 (23)	57.8	30	1.0	1.0
1628	UCD 08201/20	2790 (7)	61.6	35	1.0	1.0
1629	UCD 08201/21	3150 (1)	62.2	31	1.0	1.0
1630	BLUE BEARD	2310 (25)	62.5	50	4.3	1.0
1631	DURUM IRAQ	2340 (24)	60.8	53	1.8	1.0
1632	WB SJ806-13	2740 (9)	61.5	30	1.0	2.0
1635	RSI 07W60083	2740 (10)	61.5	30	1.0	1.0
1639	APB D1-1-5P	2430 (21)	61.7	34	1.0	1.0
1640	APB D1-2	2400 (22)	60.1	29	1.0	1.0
1641	APB D2-97	2280 (26)	61.4	29	1.0	1.0
	MEAN	2650	61.0	32	1.2	1.3
	CV	10.8	1.4	8.0	23.6	75.0
	LSD (.05)	400	1.7	5.0	0.4	1.3

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.

Table 41. 2009 KERN COUNTY DURUM WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Lodging Harvest
<u>CULTIVARS</u>					
878	DURAKING	5120 (21)	62.5	34	1.0
951	KRONOS	5100 (22)	61.3	32	1.0
1166	CROWN	6010 (8)	60.6	35	1.0
1210	PLATINUM	5260 (19)	62.3	32	1.0
1375	DESERT KING	6010 (9)	62.4	35	1.0
1429	FORTISSIMO	6160 (7)	61.4	31	1.0
1431	VOLANTE	6270 (4)	64.0	31	1.0
1473	Q-MAX	4260 (24)	59.7	34	1.0
1484	WESTMORE	6270 (5)	63.4	33	1.0
1582	MAESTRALE	5390 (18)	63.5	37	1.5
1583	SARAGOLLA	5790 (11)	63.2	31	1.0
<u>ADVANCED LINES</u>					
1506	WWW D6575D	5750 (12)	61.8	32	1.0
1585	UCD 06222/53	5550 (15)	63.2	34	3.0
1598	UCD 06222/52	4880 (23)	61.6	32	1.8
1606	WB DA804-24	5460 (17)	62.5	32	1.0
1613	APB DO4AZ-335	6010 (10)	61.0	26	1.0
1627	UCD 08201/18	5620 (13)	60.0	33	1.8
1628	UCD 08201/20	6240 (6)	63.3	36	1.0
1629	UCD 08201/21	6600 (1)	64.0	35	1.0
1630	BLUE BEARD	2280 (25)	60.3	58	6.8
1631	DURUM IRAQ	2170 (26)	59.0	52	6.3
1632	WB SJ806-13	6340 (2)	62.5	33	1.0
1635	RSI 07W60083	5620 (14)	62.0	33	1.0
1639	APB D1-1-5P	5500 (16)	63.5	34	1.0
1640	APB D1-2	5230 (20)	61.0	30	1.0
1641	APB D2-97	6280 (3)	63.0	33	1.0
	MEAN	5430	62.0	34	1.6
	CV	10.3	0.7	4.9	20.5
	LSD (.05)	780	1.0	3.0	0.5

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.

Table 42. 2009 IMPERIAL COUNTY DURUM WHEAT TEST

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000	Plant Ht (in)	Lodging Harvest	Days to	
				Kernel Wt (g)			Head	Mature (from 3/1)
CULTIVARS								
878	DURAKING	8440 (10)	61.3	40.5	30	1.5	82	128
951	KRONOS	6580 (31)	61.3	48.8	28	1.0	78	125
1166	CROWN	7900 (13)	58.5	44.2	32	1.0	83	128
1210	PLATINUM	7030 (25)	60.8	48.1	26	1.0	83	127
1215	ORITA	7230 (21)	58.5	43.9	28	1.0	84	128
1375	DESERT KING	7750 (15)	59.5	40.1	31	1.0	85	128
1429	FORTISSIMO	7010 (26)	58.8	35.4	30	1.0	85	128
1430	RSI 59	8040 (11)	61.3	41.3	30	1.0	84	128
1431	VOLANTE	8580 (8)	62.0	42.1	29	1.0	82	127
1473	Q-MAX	6630 (30)	57.3	38.5	30	1.0	88	133
1479	HAVASU	8680 (6)	62.5	43.1	31	1.3	79	125
1484	WESTMORE	7480 (17)	60.5	38.2	29	1.0	79	126
1582	MAESTRALE	9850 (2)	63.3	49.3	35	1.5	79	124
1583	SARAGOLLA	9020 (4)	62.0	41.4	32	1.5	82	129
ADVANCED LINES								
1506	WWW D6575D	7780 (14)	60.0	35.5	31	1.0	86	130
1542	WB YU 803-42	7910 (12)	62.8	47.8	28	1.0	77	124
1543	WB YU 803-52	6440 (32)	62.8	46.8	27	1.0	80	126
1544	WB YU 803-54	7060 (24)	62.5	43.2	26	1.0	80	126
1585	UCD 06222/53	10670 (1)	62.5	44.1	34	1.8	82	127
1598	UCD 06222/52	9620 (3)	62.0	46.9	31	1.3	80	126
1606	WB DA804-24	7260 (20)	61.3	45.2	27	1.0	79	126
1607	WB YU802-4	6970 (28)	59.0	34.6	31	1.0	86	129
1613	APB DO4AZ-335	5180 (33)	59.5	42.7	22	1.0	80	127
1627	UCD 08201/18	7690 (16)	57.3	34.4	27	1.0	86	127
1628	UCD 08201/20	8680 (7)	62.5	47.4	33	1.0	80	126
1629	UCD 08201/21	7440 (18)	62.0	34.6	32	1.0	86	130
1630	BLUE BEARD	2820 (35)	57.5	33.4	54	4.8	101	133
1631	DURUM IRAQ	3420 (34)	57.8	42.6	54	2.8	99	133
1632	WB SJ806-13	7010 (27)	60.8	41.4	28	1.0	83	130
1633	WB YU805-17	7100 (22)	60.0	40.5	27	1.0	83	126
1634	WB YU805-84	7080 (23)	61.3	44.1	28	1.3	81	126
1635	RSI 07W60083	7330 (19)	60.0	38.1	29	1.3	87	128
1639	APB D1-1-5P	6790 (29)	60.8	43.6	30	1.3	83	127
1640	APB D1-2	8820 (5)	60.5	46.1	30	1.0	80	125
1641	APB D2-97	8550 (9)	61.8	44.0	29	1.0	77	125
MEAN		7480	60.6	42.0	31	1.3	83	127
CV		5.5	1.2	4.8	5.4	28.4	1.4	1.3
LSD (.05)		580	1.1	4.1	2.0	0.5	2.0	2.0

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.

Table 43. 2009 DURUM WHEAT LODGING SUMMARY

Entry	Name	Lodging (Harvest)					
		Mean (5 loc)	UC Davis	Kings	Fresno	Kern	Imperial
CULTIVARS							
878	DURAKING	1.3 (8)	1.3	1.0	1.5	1.0	1.5
951	KRONOS	2.4 (22)	5.0	1.0	3.8	1.0	1.0
1166	CROWN	1.2 (5)	1.8	1.0	1.0	1.0	1.0
1210	PLATINUM	1.1 (2)	1.0	1.0	1.3	1.0	1.0
1375	DESERT KING	1 (1)	1.0	1.0	1.0	1.0	1.0
1429	FORTISSIMO	1.1 (2)	1.3	1.0	1.0	1.0	1.0
1431	VOLANTE	1.1 (2)	1.3	1.0	1.0	1.0	1.0
1473	Q-MAX	1.2 (6)	2.0	1.0	1.0	1.0	1.0
1484	WESTMORE	1.7 (15)	3.3	1.3	1.8	1.0	1.0
1582	MAESTRALE	2.2 (21)	4.3	1.5	2.0	1.5	1.5
1583	SARAGOLLA	1.4 (11)	2.0	1.0	1.3	1.0	1.5
ADVANCED LINES							
1506	WWW D6575D	1.3 (8)	1.5	1.0	1.8	1.0	1.0
1585	UCD 06222/53	3.3 (24)	5.5	1.3	4.8	3.0	1.8
1598	UCD 06222/52	2.4 (22)	3.3	1.0	4.5	1.8	1.3
1606	WB DA804-24	1.7 (15)	2.8	1.0	2.5	1.0	1.0
1613	APB DO4AZ-335	1.3 (10)	2.0	1.0	1.5	1.0	1.0
1627	UCD 08201/18	1.2 (6)	1.0	1.0	1.3	1.8	1.0
1628	UCD 08201/20	1.6 (13)	3.0	1.0	2.0	1.0	1.0
1629	UCD 08201/21	1.8 (19)	3.0	1.0	3.0	1.0	1.0
1630	BLUE BEARD	6.1 (26)	8.0	4.3	6.8	6.8	4.8
1631	DURUM IRAQ	4.9 (25)	7.8	1.8	5.8	6.3	2.8
1632	WB SJ806-13	1.7 (15)	3.8	1.0	1.5	1.0	1.0
1635	RSI 07W60083	1.4 (12)	2.5	1.0	1.3	1.0	1.3
1639	APB D1-1-5P	1.6 (13)	2.3	1.0	2.5	1.0	1.3
1640	APB D1-2	1.7 (18)	3.5	1.0	2.0	1.0	1.0
1641	APB D2-97	1.9 (20)	2.8	1.0	3.5	1.0	1.0
	MEAN	1.9	2.9	1.2	2.3	1.6	1.3
	CV	45.9	49.9	23.6	47.2	20.5	28.4
	LSD (.05)	0.5	2.1	0.4	1.6	0.5	0.5

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%.
 Number in parenthesis indicates relative rank in column

Table 44. 2009 DURUM WHEAT GRAIN PROTEIN SUMMARY (%)

Entry	Name	Imperial Valley (1 loc)	Central Valley			
			Mean (3 loc)	UC Davis	Kings	Fresno
<u>CULTIVARS</u>						
878	DURAKING	14 (28)	14.56 (19)	14.13	15.19	14.35
951	KRONOS	15.02 (15)	14.65 (15)	14.08	15.26	14.61
1166	CROWN	14.81 (17)	14.30 (20)	14.36	14.33	14.20
1210	PLATINUM	15.54 (4)	15.25 (5)	14.44	15.84	15.47
1215	ORITA	14.98 (16)	-	-	-	-
1375	DESERT KING	14.58 (21)	14.61 (18)	14.37	14.70	14.75
1429	FORTISSIMO	14.67 (18)	14.63 (16)	14.96	14.12	14.82
1430	RSI 59	12.52 (34)	-	-	-	-
1431	VOLANTE	13.5 (31)	13.72 (25)	12.85	14.12	14.20
1473	Q-MAX	15.41 (7)	14.68 (14)	14.04	15.46	14.54
1479	HAVASU	14.58 (21)	-	-	-	-
1484	WESTMORE	15.27 (11)	15.31 (4)	15.13	15.68	15.13
1582	MAESTRALE	15.6 (2)	15.21 (7)	15.12	15.36	15.16
1583	SARAGOLLA	12.21 (35)	13.47 (26)	12.88	14.16	13.37
<u>ADVANCED LINES</u>						
1506	WWW D6575D	14.2 (25)	14.97 (10)	14.80	15.36	14.75
1542	WB YU 803-42	14.3 (23)	-	-	-	-
1543	WB YU 803-52	13.57 (30)	-	-	-	-
1544	WB YU 803-54	14.02 (27)	-	-	-	-
1585	UCD 06222/53	13.75 (29)	13.92 (24)	13.97	14.18	13.61
1598	UCD 06222/52	14.03 (26)	14.63 (17)	13.96	15.83	14.10
1606	WB DA804-24	15.1 (14)	15.33 (3)	14.83	15.83	15.32
1607	WB YU802-4	15.36 (10)	-	-	-	-
1613	APB DO4AZ-335	15.23 (12)	14.24 (21)	13.60	15.12	14.01
1627	UCD 08201/18	15.39 (8)	16.43 (1)	17.11	17.36	14.82
1628	UCD 08201/20	13.28 (33)	14.91 (11)	15.25	14.85	14.63
1629	UCD 08201/21	15.46 (5)	14.87 (12)	15.00	14.68	14.93
1630	BLUE BEARD	15.6 (2)	15.13 (8)	16.17	13.79	15.43
1631	DURUM IRAQ	16.19 (1)	15.71 (2)	15.91	15.44	15.77
1632	WB SJ806-13	15.37 (9)	15.25 (5)	14.95	15.01	15.79
1633	WB YU805-17	14.66 (19)	-	-	-	-
1634	WB YU805-84	15.44 (6)	-	-	-	-
1635	RSI 07W60083	15.17 (13)	14.80 (13)	13.35	15.62	15.42
1639	APB D1-1-5P	14.61 (20)	13.99 (23)	14.45	14.29	13.22
1640	APB D1-2	14.3 (23)	15.05 (9)	14.50	15.38	15.26
1641	APB D2-97	13.34 (32)	14.20 (22)	13.68	15.01	13.92

Grain Protein % expressed at 12% moisture

Numbers in parentheses indicate relative rank in column.

Table 45. 2009 KINGS DURUM WHEAT TEST, QUALITY EVALUATION

Entry	Name	Milling																									
		Grain					Semolina					Pasta															
		Pro	Ash	Test Wt	1000 Kwt	HVAC	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																				
CULTIVARS																											
878	DURAKING	15.19	1.37	62.7	50.8	100	189.7	10.2	0.4	76.7	63.2	13.90	0.64	7	262.9	2.37	36.7	14.4	561	23.32	54.97	34.24	6.0	29.89	6.0	6.4	
951	KRONOS	15.26	1.39	61.4	59.2	100	194.9	5.0	0.2	75.8	60.2	13.90	0.76	5	219.1	2.82	39.4	14.1	836	25.30	55.23	40.99	8.5	29.65	7.8	7.6	
1166	CROWN	14.33	1.37	61.2	51.3	100	184.4	15.7	0.3	76.2	61.1	12.97	0.40	3	209.3	1.01	34.2	12.4	706	26.42	54.73	39.73	8.5	31.12	7.5	7.1	
1210	PLATINUM	15.84	1.73	61.0	51.3	99	190.1	10.2	0.2	74.7	61.2	14.44	0.52	1	354.9	2.35	34.1	12.2	776	26.87	54.32	39.25	8.0	30.43	8.7	6.2	
1375	DESERT KING	14.70	1.41	61.6	48.5	100	194.4	5.9	0.2	72.0	61.9	13.25	0.64	4	243.4	1.44	37.6	13.6	715	25.29	53.78	38.53	8.0	30.71	6.9	7.0	
1429	FORTISSIMO	14.12	1.47	63.2	56.2	100	181.4	18.0	0.3	74.3	60.5	14.11	0.70	3	247.0	1.38	36.3	12.6	746	28.50	53.80	42.75	9.0	31.13	7.3	6.5	
1431	VOLANTE	14.12	1.47	63.2	56.2	100	192.3	7.2	0.4	77.4	61.0	12.72	0.58	1	199.7	1.52	32.2	11.1	603	29.75	55.03	43.63	9.5	30.07	6.0	7.5	
1473	Q-MAX	15.46	1.48	61.6	55.2	100	190.0	9.6	0.2	75.6	61.3	14.10	0.57	2	233.1	1.72	37.4	12.9	840	26.42	53.19	40.21	8.5	29.37	6.1	8.5	
1484	WESTMORE	15.68	1.38	60.3	52.6	100	186.5	13.2	0.2	75.5	59.4	14.48	0.53	4	375.5	1.99	38.9	13.5	871	25.85	54.82	40.04	8.5	29.18	5.4	8.0	
1582	MAESTRALE	15.36	1.41	62.0	52.1	99	186.4	13.1	0.4	74.0	61.7	14.21	0.67	4	297.2	2.06	37.5	13.2	760	26.39	54.20	40.75	8.5	30.00	6.7	7.8	
1583	SARAGOLLA	14.16	1.31	63.2	51.0	100	185.9	13.0	0.6	75.5	62.8	14.33	0.55	5	311.3	2.58	30.6	11.1	599	24.65	54.08	40.06	8.5	30.25	7.0	7.3	
ADVANCED LINES																											
1506	WWW D6575D	15.36	1.46	61.5	45.9	100	188.0	11.5	0.1	75.5	62.4	14.17	0.73	3	311.9	1.08	35.5	12.7	623	22.65	52.04	35.13	6.0	28.72	6.5	8.2	
1585	UCD 06222/53	14.18	1.44	62.3	51.3	99	188.2	11.0	0.4	73.1	62.0	13.05	0.61	6	202.5	1.58	33.4	12.0	686	27.22	57.29	41.37	9.0	29.22	6.1	7.9	
1598	UCD 06222/52	15.83	1.42	60.8	45.9	100	189.5	10.2	0.1	73.5	60.0	14.76	0.68	1	385.9	2.70	37.1	13.3	797	27.13	53.18	40.98	8.5	29.62	6.9	7.9	
1606	WB DA804-24	15.83	1.32	60.8	54.6	99	188.7	10.6	0.3	75.9	60.1	14.62	0.50	1	235.2	1.92	38.3	14.9	635	26.50	54.67	40.57	8.5	28.83	6.2	8.4	
1613	APB D04AZ-335	15.12	1.34	61.8	52.9	100	194.5	5.1	0.3	73.7	59.2	13.65	0.55	4	399.3	1.54	37.1	14.3	762	30.87	54.14	43.79	9.5	29.64	6.5	8.2	
1627	UCD 08201/18	17.36	1.55	58.0	43.1	100	187.6	12.0	0.1	73.7	61.2	16.58	0.68	2	402.5	1.99	45.2	16.8	717	25.84	54.37	40.39	8.5	29.57	6.5	7.2	
1628	UCD 08201/20	14.85	1.33	62.5	54.1	100	193.2	6.2	0.3	74.2	61.1	13.55	0.64	5	290.7	2.57	35.2	12.4	841	26.72	56.15	42.16	9.5	31.03	6.4	7.1	
1629	UCD 08201/21	14.68	1.39	62.7	49.0	100	193.8	6.2	0.3	75.2	59.3	13.52	0.67	2	225.2	1.88	36.1	12.8	554	25.84	55.47	40.45	8.5	30.04	6.4	7.1	
1630	BLUE BEARD	13.79	1.36	63.2	40.0	98	175.7	23.5	0.3	74.8	60.0	12.49	0.56	2	48.9	1.23	22.5	8.5	534	25.85	53.83	38.38	8.0	31.26	6.5	6.7	
1631	DURUM IRAQ	15.44	1.30	61.8	51.0	99	189.3	10.5	0.1	73.4	60.3	14.06	0.51	1	128.7	1.18	37.5	13.5	497	20.24	52.99	31.99	4.5	31.02	5.6	8.1	
1632	WB SJ806-13	15.01	1.38	61.9	49.5	99	189.2	10.5	0.2	74.4	59.3	13.81	0.58	9	318.4	2.21	35.4	12.6	740	28.94	55.02	42.80	9.0	29.26	7.0	7.3	
1635	RSI 07W60083	15.62	1.39	61.7	47.4	100	191.0	8.4	0.1	72.7	60.0	14.69	0.69	6	252.7	2.18	37.7	12.9	675	30.29	54.39	46.16	10.0	30.45	6.1	7.4	
1639	APB D1-1-5P	14.29	1.43	61.9	50.0	100	188.3	11.6	0.1	72.8	59.5	13.00	0.72	6	242.4	1.16	36.0	12.8	1180	31.43	55.52	47.69	10.0	29.66	6.2	7.4	
1640	APB D1-2	15.38	1.44	60.6	58.1	100	195.2	4.6	0.1	75.0	62.2	14.28	0.59	9	361.7	2.15	35.3	12.6	691	27.02	55.17	40.90	8.5	29.10	6.6	7.6	
1641	APB D2-97	15.01	1.37	61.5	49.3	100	187.0	12.5	0.2	73.7	59.8	13.78	0.69	4	363.9	2.66	38.2	13.9	680	29.23	53.66	42.40	9.0	29.43	6.8	8.0	

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.

Table 46. 2009 IMPERIAL DURUM WHEAT TEST, QUALITY EVALUATION

Entry	Name	Milling																								
		Grain					Semolina					Pasta														
		Pro	Ash	Test Wt	1000 Kwt	HVAC	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																		
CULTIVARS																										
878	DURAKING	14.00	1.65	62.9	45.5	99	156.8	42.6	0.5	76.0	64.3	12.60	0.70	2	196.2	0.91	32.7	11.4	616	24.98	54.84	43.91	10.0	29.10	6.6	8.6
951	KRONOS	15.02	1.81	61.5	51.8	99	180.9	18.8	0.4	74.1	61.9	13.54	0.79	3	187.7	0.81	36.7	13.3	1023	26.05	55.25	38.53	8.0	29.55	7.1	7.8
1166	CROWN	14.81	1.86	58.8	48.1	99	155.7	43.2	0.8	75.9	65.1	13.65	0.88	4	176.6	0.63	37.1	13.3	766	25.38	53.41	40.23	8.5	32.83	6.6	8.5
1210	PLATINUM	15.54	1.84	61.2	54.1	99	166.6	32.6	0.7	79.5	62.2	14.38	0.83	2	268.1	0.91	35.9	12.9	851	27.11	53.36	40.30	8.5	31.18	6.9	9.3
1215	ORITA	14.98	1.78	58.5	48.5	99	166.9	32.7	0.3	73.5	62.2	13.98	0.86	4	218.4	0.83	33.1	13.4	725	27.17	53.67	43.56	10.0	30.41	6.4	8.8
1375	DESERT KING	14.58	1.95	59.3	37.9	99	159.4	40.1	0.4	73.8	63.3	13.56	0.82	3	204.7	0.94	33.9	12.2	773	26.41	54.60	42.83	9.0	29.66	7.1	8.2
1429	FORTISSIMO	14.67	1.84	59.4	35.1	98	127.3	71.9	0.5	73.2	62.4	13.91	0.67	4	135.4	0.75	36.7	12.9	546	29.22	54.04	44.44	10.0	28.83	7.6	7.7
1430	RSI 59	12.52	1.68	62.4	42.0	99	175.7	24.2	0.2	74.3	64.1	11.51	0.73	1	157.6	1.02	32.8	12.1	740	26.06	54.91	41.24	9.0	29.23	7.2	7.4
1431	VOLANTE	13.50	1.83	63.1	39.7	99	164.7	34.9	0.3	75.7	63.4	12.37	0.85	3	141.9	0.98	32.6	11.9	617	29.39	54.39	44.13	10.0	29.27	6.7	8.4
1473	Q-MAX	15.41	1.95	57.0	35.1	100	144.0	55.3	0.9	76.4	59.2	14.21	0.92	3	200.1	0.68	40.4	14.4	828	25.67	51.65	38.02	8.0	30.67	7.4	8.0
1479	HAVASU	14.58	1.94	62.8	45.0	99	169.8	29.8	0.1	76.5	62.0	13.30	0.74	5	247.9	1.18	33.5	12	829	29.65	53.74	44.57	10.0	29.83	6.3	9.3
1484	WESTMORE	15.27	1.93	61.0	42.0	98	152.0	47.5	0.4	75.2	60.7	14.07	0.79	2	244.6	0.99	38.4	13.8	922	28.06	53.73	44.50	10.0	30.31	6.4	8.9
1582	MAESTRALE	15.60	1.77	63.2	50.3	100	178.9	21.0	0.3	75.8	62.4	14.23	0.71	3	146.5	0.65	41.7	14.9	761	26.52	55.22	41.57	9.0	30.92	6.9	9.3
1583	SARAGOLLA	12.21	1.75	62.6	45.0	95	162.7	37.0	0.5	75.4	63.5	11.71	0.73	4	184.4	0.89	29.7	10.8	743	26.17	53.46	41.17	9.0	31.41	8.5	7.5
ADVANCED LINES																										
1506	WWW D6575D	14.20	2.31	60.0	37.5	99	142.1	56.8	0.7	73.4	62.1	13.70	0.89	2	188.4	0.56	36.6	12.9	831	25.03	55.11	39.93	8.5	30.18	6.9	8.7
1542	WB YU 803-42	14.30	1.96	63.2	51.0	100	181.6	18.0	0.3	75.9	61.8	13.80	0.81	4	226.3	0.86	37.6	13.3	1001	27.88	55.62	45.61	10.0	29.33	6.1	8.9
1543	WB YU 803-52	13.57	1.71	62.8	45.7	99	169.7	26.0	0.5	76.6	61.8	13.27	0.73	2	191.0	0.61	37.1	13.1	744	27.81	53.62	41.78	9.0	28.97	6.8	8.9
1544	WB YU 803-54	14.02	1.90	63.2	44.8	99	176.4	23.4	0.3	75.9	61.4	13.62	0.72	6	232.2	0.54	38.2	13.3	1201	30.44	53.53	43.99	10.0	29.28	6.1	9.5
1585	UCD 06222/53	13.75	1.75	63.0	49.8	100	176.2	23.3	0.6	75.9	62.5	12.44	0.65	3	143.2	0.90	34.9	12.8	756	27.71	55.40	45.07	10.0	30.23	7.0	8.7
1598	UCD 06222/52	14.03	1.75	63.3	50.0	100	181.8	18.1	0.3	75.3	61.9	12.56	0.72	4	166.4	1.17	33.6	11.9	1028	28.39	55.59	45.76	10.0	30.83	6.9	8.1
1606	WB DA804-24	15.10	1.70	61.5	46.3	96	177.4	22.7	0.2	73.7	59.3	14.03	0.80	3	171.5	0.95	35.7	13.4	1005	27.09	53.73	42.55	9.0	29.73	6.8	9.3
1607	WB YU802-4	15.36	1.87	59.1	42.2	92	154.3	45.2	0.8	73.8	60.0	14.11	0.70	2	272.6	1.37	35.8	13.2	810	28.07	53.32	43.33	10.0	29.89	7.0	8.5
1613	APB D04AZ-335	15.23	2.02	59.4	42.6	97	161.3	38.1	0.6	75.2	59.5	14.04	0.74	3	240.7	0.81	37.7	13.5	987	28.89	53.09	45.41	10.0	29.33	10.1	10.1
1627	UCD 08201/18	15.39	1.99	58.2	41.3	95	144.9	54.2	0.8	73.1	60.6	14.49	0.89	4	227.4	1.04	37.5	13.7	675	26.58	53.79	42.90	9.5	30.92	8.2	7.3
1628	UCD 08201/20	13.28	1.70	62.8	52.9	96	179.8	19.8	0.1	77.8	61.8	12.16	0.76	6	177.9	1.39	30	10.6	906	26.84	54.95	42.83	9.0	30.25	7.2	7.3
1629	UCD 08201/21	15.46	1.91	59.3	45.0	98	135.8	62.7	1.3	74.1	58.4	14.51	0.81	9	138.0	1.03	36.1	13.5	670	26.11	50.97	38.35	8.0	28.82	7.1	8.4
1630	BLUE BEARD	15.60	1.75	59.7	41.7	98	138.9	59.8	0.8	74.8	59.6	14.77	0.87	3	22.2	1.98	--	--	629	26.67	52.39	37.82	7.5	31.27	6.1	7.1
1631	DURUM IRAQ	16.19	1.94	57.6	52.4	97	155.3	43.4	0.6	75.4	60.2	14.97	0.82	4	54.9	0.78	34.3	11.6	630	20.83	51.66	30.72	4.5	30.37	6.9	8.0
1632	WB SJ806-13	15.37	1.72	61.0	46.7	99	155.2	43.5	1.1	75.2	61.7	14.19	0.86	2	257.0	1.17	36.6	13.6	1049	30.04	54.65	44.35	10.0	31.07	7.3	8.4
1633	WB YU805-17	14.66	1.67	60.9	46.5	99	165.7	33.8	0.5	75.5	63.0	13.11	0.74	2	251.1	0.88	35.3	12.9	748	28.20	55.57	45.34	10.0	30.03	6.1	8.3
1634	WB YU805-84	15.44	1.74	61.9	48.8	100	174.4	25.3	0.6	78.5	62.2	14.39	0.85	1	217.1	1.75	41.8	15.2	1013	30.30	54.25	45.85	10.0	29.82	5.8	8.9
1635	RSI 07W60083	15.17	1.86	60.8	46.1	100	160.1	39.5	0.4	76.5	61.0	14.18	0.76	5	156.9	1.06	37.1	12.7	647	32.13	54.28	45.94	10.0	29.36	7.2	8.3
1639	APB D1-1-5P	14.61	1.77	61.5	49.0	99	153.1	46.3	0.6	76.7	60.6	13.39	0.96	2	151.7	0.78	36	13	748	30.04	53.55	45.30	10.0	30.06	6.4	8.5
1640	APB D1-2	14.30	1.89	61.4	47.8	100	188.8	11.3	0.1	77.2	64.5	12.92	0.85	3	247.2	1.22	31.5	11.2	606	28.98	54.70	45.11	10.0	30.81	7.5	7.1
1641	APB D2-97	13.34	1.68	62.9	45.7	100	170.8	29.2	0.3	76.1	62.1	12.35	0.94	1	206.7	1.19	29.2	10.3	757	29.00	55.47	44.62	10.0	30.46	8.1	7.3

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

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

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

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

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

Table 47. 2009 UC DAVIS DURUM WHEAT TEST, QUALITY EVALUATION

Entry	Name	Milling																									
		Grain								Semolina					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
CULTIVARS																											
878	DURAKING	14.13	1.94	61.7	46.5	100	--	172.2	27.0	0.6	73.6	61.1	12.66	0.77	9	188.4	1.97	30.8	10.7	549	22.37	53.49	33.98	5.5	31.05	6.5	6.6
951	KRONOS	14.08	1.73	61.9	56.2	100	7.0	192.5	7.1	0.4	76.2	61.7	12.59	0.82	11	236.4	2.93	31.8	11.1	734	24.81	53.60	39.19	8.0	32.36	6.8	7.0
1166	CROWN	14.36	1.30	61.9	52.6	100	3.0	190.8	8.7	0.3	76.1	60.0	12.96	0.52	5	219.2	1.80	35.3	12.6	755	23.61	55.74	38.24	8.0	31.25	6.5	7.6
1210	PLATINUM	14.44	1.35	63.3	52.9	100	--	187.9	11.4	0.3	74.3	60.5	13.04	0.61	2	233.8	4.17	28.5	9.8	854	23.71	54.24	37.26	7.5	31.05	7.0	6.9
1375	DESERT KING	14.37	1.41	63.6	50.0	100	2.0	190.1	9.6	0.2	72.6	59.7	12.89	0.61	3	168.7	1.87	32.8	11.1	707	23.14	56.02	38.57	8.0	31.85	6.5	6.7
1429	FORTISSIMO	14.96	1.65	63.1	51.3	100	1.0	189.4	10.1	0.2	72.6	60.2	13.68	0.70	6	126.4	2.35	35.9	12.4	659	23.96	53.84	40.09	8.5	29.82	7.5	6.6
1431	VOLANTE	12.85	1.42	64.6	60.2	99	1.0	192.5	6.8	0.5	73.5	60.7	11.10	0.52	2	141.1	1.87	31.7	10.9	655	25.53	54.42	41.20	9.0	30.40	6.8	7.3
1473	Q-MAX	14.04	1.61	63.0	60.2	100	9.0	194.4	5.5	0.2	74.1	59.4	12.67	0.53	7	260.2	3.38	32.7	11.6	824	23.60	55.28	40.37	9.0	30.27	8.6	6.3
1484	WESTMORE	15.13	1.52	64.2	46.1	100	9.0	185.0	14.9	0.1	76.0	59.7	13.68	0.66	5	301.0	3.10	35.9	12.5	902	24.44	54.94	40.73	9.0	29.42	8.1	7.3
1582	MAESTRALE	15.12	1.65	62.3	50.5	99	3.0	190.3	9.6	0.1	74.4	60.9	13.89	0.78	3	261.0	1.68	37.1	13.3	781	22.27	55.26	38.73	8.0	29.15	5.2	8.0
1583	SARAGOLLA	12.88	1.35	64.1	51.8	99	5.0	175.6	23.7	1.1	77.0	64.0	11.36	0.56	3	242.5	4.57	26.5	9.2	744	22.19	52.04	37.19	7.5	30.40	8.4	6.2
ADVANCED LINES																											
1506	WWW D6575D	14.80	1.84	61.7	45.5	100	4.0	179.1	20.5	0.1	74.1	61.2	13.79	0.84	2	246.0	1.42	37.0	12.7	901	22.19	54.42	35.40	6.0	28.82	8.1	6.6
1585	UCD 06222/53	13.97	1.34	64.2	59.2	100	4.0	194.2	5.5	0.2	76.1	63.1	12.64	0.55	5	172.6	2.83	33.5	12.7	885	24.41	55.42	39.82	8.5	30.86	8.3	6.5
1598	UCD 06222/52	13.96	1.34	63.8	56.8	100	9.0	187.8	11.5	0.6	76.7	61.2	12.78	0.53	4	140.4	3.33	33.7	11.7	716	25.81	54.83	41.47	9.0	30.01	7.2	6.9
1606	WB DA804-24	14.83	1.39	63.8	50.0	100	5.0	187.9	11.8	0.6	75.8	60.8	13.40	0.75	3	193.3	3.27	34.7	13.4	630	23.45	51.74	42.37	9.0	29.88	5.8	7.1
1613	APB D04AZ-335	13.60	1.38	62.6	52.4	98	7.0	187.4	12.7	0.3	78.4	62.3	12.14	0.67	1	271.1	2.48	30.5	11.2	602	27.36	53.03	38.86	8.0	30.48	6.6	7.7
1627	UCD 08201/18	17.11	1.49	60.1	44.4	100	--	182.8	17.1	0.1	76.4	60.4	15.68	0.79	2	265.9	2.23	41.5	14.5	1091	23.69	55.07	39.18	8.0	30.29	6.5	7.2
1628	UCD 08201/20	15.25	1.70	63.5	58.8	100	7.0	195.5	4.6	0.1	77.1	62.5	13.81	0.84	5	262.9	3.74	36.2	12.5	773	23.65	54.49	39.28	8.0	30.54	6.6	7.6
1629	UCD 08201/21	15.00	1.53	64.3	46.9	100	13.0	193.3	6.6	0.3	76.8	60.2	13.78	0.75	4	138.1	2.88	34.0	11.9	763	23.17	55.38	37.35	7.5	30.10	6.2	7.2
1630	BLUE BEARD	16.17	1.87	61.0	45.2	100	6.0	182.7	16.5	0.1	77.0	63.8	15.01	1.04	4	48.3	1.86	41.1	13.1	564	21.42	52.68	33.69	5.5	28.62	5.2	9.3
1631	DURUM IRAQ	15.91	1.78	61.2	50.5	100	11.0	189.5	10.6	0.1	74.9	62.6	14.57	0.90	7	157.0	1.95	44.4	15.3	712	17.60	54.11	29.36	4.5	29.92	6.0	7.5
1632	WB SJ806-13	14.95	1.44	64.9	51.8	100	4.0	189.0	12.3	0.4	77.2	62.1	13.50	0.80	5	244.3	3.43	34.9	12.4	645	25.26	55.34	41.35	9.0	30.08	7.2	6.7
1635	RSI 07W60083	13.35	1.62	63.6	52.6	99	9.0	178.9	20.3	0.6	75.4	61.8	11.88	0.72	6	170.4	2.59	28.8	10.2	638	20.71	55.60	33.31	5.5	29.46	6.4	6.6
1639	APB D1-1-5P	14.45	1.45	63.8	53.8	100	1.0	179.1	20.6	0.3	77.5	61.0	13.05	0.82	4	203.9	1.70	35.0	12.1	612	26.29	56.00	42.86	9.5	29.45	6.7	7.1
1640	APB D1-2	14.50	1.88	62.3	58.2	100	6.0	191.3	8.0	0.4	75.8	61.0	13.17	0.95	8	294.3	2.15	35.4	12.6	728	25.34	55.39	42.21	9.0	30.40	6.3	6.9
1641	APB D2-97	13.68	1.67	63.6	65.8	99	11.0	195.2	4.6	0.2	77.2	65.0	12.38	0.93	7	283.2	2.86	31.9	11.5	554	24.78	56.61	41.64	9.5	30.42	6.8	6.3

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

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

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

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

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

Table 48. 2009 AND 2007-09 DURUM WHEAT YIELD SUMMARY (LBS/ACRE)

Entry	Name	Sacramento Valley			San Joaquin Valley			Imperial Valley		
		2009 (1 loc)	2008-09 (2 loc/yr)	2007-09 (3 loc/yr)	2009 (3 loc/yr)	2008-09 (6 loc/yr)	2007-09 (9 loc/yr)	2009 (1 loc/yr)	2008-09 (2 loc/yr)	2007-09 (3 loc/yr)
<u>CULTIVARS</u>										
878	DURAKING	7030 (5)	7630 (3)	7420 (4)	4990 (14)	5290 (14)	5770 (6)	8440 (10)	7470 (12)	7430 (8)
951	KRONOS	6060 (24)	6300 (14)	6340 (9)	4750 (20)	5700 (4)	5770 (7)	6580 (31)	6580 (20)	6750 (16)
1166	CROWN	7380 (3)	7690 (2)	7500 (2)	5230 (6)	5750 (2)	5870 (4)	7900 (13)	7560 (10)	7290 (11)
1210	PLATINUM	6690 (10)	7710 (1)	7680 (1)	4870 (16)	5650 (5)	5920 (2)	7030 (25)	6800 (19)	6890 (14)
1215	ORITA	-	-	-	-	-	-	7230 (21)	7220 (15)	7370 (10)
1375	DESERT KING	7420 (2)	7540 (4)	7430 (3)	5020 (11)	5560 (7)	5900 (3)	7750 (15)	7640 (9)	7660 (6)
1429	FORTISSIMO	6840 (9)	7350 (6)	7340 (5)	5340 (2)	5520 (8)	5660 (9)	7010 (26)	7410 (13)	7380 (9)
1430	RSI 59	-	-	-	-	-	-	8040 (11)	7970 (7)	7870 (4)
1431	VOLANTE	6410 (20)	7250 (7)	7180 (7)	5300 (3)	5730 (3)	5780 (5)	8580 (8)	8010 (6)	7760 (5)
1473	Q-MAX	7130 (4)	7230 (8)	7160 (8)	4510 (24)	4980 (15)	5250 (10)	6630 (30)	6840 (18)	7120 (13)
1479	HAVASU	-	-	-	-	-	-	8680 (6)	8110 (5)	7900 (2)
1484	WESTMORE	7030 (6)	7020 (10)	-	5140 (8)	5610 (6)	-	7480 (17)	6970 (17)	-
1582	MAESTRALE	6370 (22)	5870 (15)	6110 (10)	4690 (22)	5400 (13)	5760 (8)	9850 (2)	8310 (3)	7980 (1)
1583	SARAGOLLA	7440 (1)	7210 (9)	7230 (6)	5280 (5)	6040 (1)	6300 (1)	9020 (4)	8170 (4)	7890 (3)
<u>ADVANCED LINES</u>										
1506	WWW D6575D	6870 (8)	-	-	5090 (9)	-	-	7780 (14)	-	-
1542	WB YU 803-42	-	-	-	-	-	-	7910 (12)	7480 (11)	7520 (7)
1543	WB YU 803-52	-	-	-	-	-	-	6440 (32)	6570 (21)	6770 (15)
1544	WB YU 803-54	-	-	-	-	-	-	7060 (24)	7040 (16)	7200 (12)
1585	UCD 06222/53	6480 (18)	6800 (12)	-	5010 (12)	5500 (10)	-	10670 (1)	9260 (1)	-
1598	UCD 06222/52	6520 (14)	6690 (13)	-	4620 (23)	5440 (12)	-	9620 (3)	8570 (2)	-
1606	WB DA804-24	6560 (13)	7420 (5)	-	4870 (17)	5470 (11)	-	7260 (20)	7690 (8)	-
1607	WB YU802-4	-	-	-	-	-	-	6970 (28)	7400 (14)	-
1613	APB DO4AZ-335	6410 (21)	6970 (11)	-	4980 (15)	5510 (9)	-	5180 (33)	6170 (22)	-
1627	UCD 08201/18	6480 (17)	-	-	4740 (21)	-	-	7690 (16)	-	-
1628	UCD 08201/20	6620 (11)	-	-	5300 (4)	-	-	8680 (7)	-	-
1629	UCD 08201/21	6580 (12)	-	-	5540 (1)	-	-	7440 (18)	-	-
1630	BLUE BEARD	1240 (26)	-	-	2270 (26)	-	-	2820 (35)	-	-
1631	DURUM IRAQ	1920 (25)	-	-	2570 (25)	-	-	3420 (34)	-	-
1632	WB SJ806-13	6420 (19)	-	-	5220 (7)	-	-	7010 (27)	-	-
1633	WB YU805-17	-	-	-	-	-	-	7100 (22)	-	-
1634	WB YU805-84	-	-	-	-	-	-	7080 (23)	-	-
1635	RSI 07W60083	6320 (23)	-	-	4990 (13)	-	-	7330 (19)	-	-
1639	APB D1-1-5P	6520 (15)	-	-	4780 (19)	-	-	6790 (29)	-	-
1640	APB D1-2	6510 (16)	-	-	4860 (18)	-	-	8820 (5)	-	-
1641	APB D2-97	6920 (7)	-	-	5060 (10)	-	-	8550 (9)	-	-
	MEAN	6310	7110	7140	4810	5760	5920	7480	7510	7420
	CV	12.7	9.8	8.9	9.9	10.0	11.0	5.5	6.6	6.8
	LSD (.05)	1130	690	520	380	360	320	580	490	410

Numbers in parentheses indicate relative rank