

Kings and Tulare Small Grain Variety Performance Trials

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Small grain variety tests were conducted at multiple locations throughout California, coordinated by Wheat Breeder Jorge Dubcovsky. The results from Kings and Fresno Counties small plot trials are shown on the following pages. The regional wheat, barley and triticale trials in Kings County were conducted near Corcoran and at the Westside Research and Extension Center in Five Points. An Agronomy Progress Report containing more detailed results from all trials is available at <http://agric.ucdavis.edu/crops/cereals/cereal.htm> or on the Tulare County website at <http://cetulare.ucdavis.edu>.

The 2010 cool weather delayed crop development and wheat harvest by about 10 days. In 2010, weather conditions were ideal for wheat stripe rust, but there was no major development of wheat stripe rust, unlike other previous wet years. However, stripe rust did occur in fields with a few susceptible wheat varieties and several triticale varieties.

Wheat varieties have different levels of genetic resistance to stripe rust and, as several new races of rust develop, the resistance breaks down. Often, our best silage varieties are also the high yielding grain varieties with high protein, resistance to disease and resistance to lodging and early maturing. A dual purpose variety gives options particularly when grain prices are high and silage prices low or vice versa, or when water may be limited. Choose more than one variety or grain type to reduce the impacts of weather, disease, harvest schedules, and economics.

- First and foremost, select and plant varieties with good resistance along with high yield potential.
- Secondly, a well-timed fungicide application was shown to reduce the yield loss even in resistant varieties when weather conditions favor the disease. Stripe Rust resistance based on observations from the University of California statewide variety tests:

Highly Susceptible: Yecora Rojo, Dirkwin, Summit

Susceptible: Blanca Grande, Anza, Duraking, Kronos, Orita

Moderately Susceptible: Express

Moderately resistant-susceptible: Joaquin, Pacheco, Topper

Moderately resistant: PR 1404, Desert King, Clear, White, Trical 105, Trical 118, Westmore

Resistant: Cal Rojo, Espresso, Redwing, Ultra, Blanca Royale, Blanca Fuerte, Christallo, Paloma, Platinum, Fortissimo, Volante, Laria, Camelot, Crown, Westmore, Lassik.

2010 California Wheat Variety Survey California Wheat Commission

Total 2010 estimated wheat planted in California was down approximately 6% from last year's estimated plantings. White and Red variety acreage increased by approximately 9%, however only 48% of last year's Durum acreage was planted this year. Non-durum acreage showed increases in all regions except for the Coast region (very wet) and the Northern CA region (water uncertainties). Timely rains increased non-durum plantings in Southern CA.

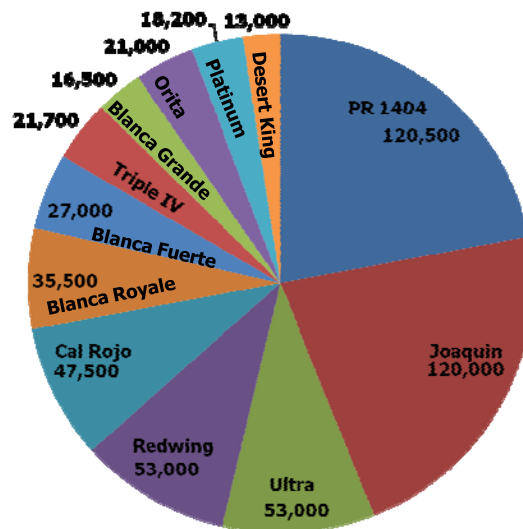
CALIFORNIA'S RED AND WHITE WHEATS:

Red wheat estimated planted acreage was up significantly over last year (16%). Hard white wheat plantings were also slightly up. Many San Joaquin durum growers shifted to red wheat due to its price advantage this year. Overall, Joaquin and PR1404 topped the list of hard red varieties planted throughout the state at ~120,000 acres each. Ultra, Redwing, and Cal Rojo each accounted for 50,000+/-acres each. Blanca Royale (San Joaquin Valley) and Blanca Fuerte (Sacramento and San Joaquin regions) had the largest acreage of Hard White wheat with 36,500 and 27,000 acres, respectively. Soft white wheat plantings are projected to be down significantly due to lack of water.

DESERT DURUM:

After 2 years of larger-than-average Desert Durum® wheat plantings, Southern CA is back to "more normal" wheat acreage with approximately 59,000 acres in the region. The San Joaquin Valley region, however, had its smallest estimated planted durum acreage since 1995, mainly due to depressed durum prices. Orita, Desert King, and Havasu were the predominant varieties planted in Imperial Valley this year, whereas Platinum dominated plantings in the San Joaquin Valley.

CA Wheat Estimates - 2010



California Wheat Commission. Web. 25 Aug. 2010. <<http://www.californiawheat.org/>>.

2010 KINGS COMMON WHEAT

Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust 4/8/2010	Stripe Rust 5/5/2010	BYDV 5/5/2010
<u>CULTIVARS</u>								
20	ANZA	5030 (40)	57.7	42	1.0	3.0	4.0	1.0
112	YECORA ROJO	3990 (41)	54.9	38	1.0	5.5	8.0	1.0
788	EXPRESS	6860 (38)	59.9	44	1.0	2.3	4.0	1.0
1155	SUMMIT	8430 (16)	62.6	39	1.0	1.0	1.3	1.5
1156	BLANCA GRANDE	8750 (8)	65.2	42	1.0	1.0	1.5	1.3
1419	PATWIN*	8518 (15)	61.7	44	1.0	1.0	1.0	-
1424	JOAQUIN	9080 (1)	63.7	43	1.0	1.0	3.3	1.0
1478	CAL ROJO	8780 (7)	62.6	37	1.0	1.0	1.0	1.3
1495	LASSIK*	8286 (19)	62.7	43	1.0	1.0	1.0	-
1500	EXPRESSO	7850 (24)	62.7	45	1.0	1.0	1.0	1.3
1521	REDWING	8610 (11)	62.1	38	1.0	1.0	1.0	1.0
1522	BLANCA ROYALE	8990 (4)	64.0	40	1.0	1.0	1.0	1.0
1523	BLANCA FUERTE	9030 (2)	64.7	38	1.0	1.0	1.0	1.3
1548	CHRISTALLO	8610 (11)	63.4	41	1.0	1.0	1.0	1.3
1555	LARIAT	7740 (27)	63.0	42	1.0	1.0	1.0	2.3
1605	PALOMA	8220 (21)	64.3	42	1.3	1.0	1.0	1.3
<u>ADVANCED LINES</u>								
1599	UCD 07013/24	9010 (3)	62.1	43	1.0	1.0	1.0	1.5
1600	UCD 07013/30	8730 (9)	63.8	37	1.0	1.0	1.0	1.0
1608	WWW CNBR9330	7190 (36)	61.5	50	1.0	1.0	1.0	2.0
1616	UCD 0810/5	7810 (25)	62.5	33	1.0	1.0	1.5	1.0
1624	WB DA905-10	8520 (14)	62.5	44	1.0	1.0	1.0	1.3
1638	APB W11-6	6960 (37)	62.7	47	2.5	1.0	1.0	1.5
1642	UCD 09013/4	7240 (35)	61.7	42	1.0	1.0	1.0	1.5
1643	UCD 09014/16	7390 (33)	63.0	48	1.0	1.0	1.0	1.5
1647	WB SJ908-186	7430 (31)	64.3	42	1.0	1.0	1.0	1.5
1648	WB SJ908-181	8340 (18)	62.9	44	1.0	1.0	1.0	1.0
1649	WB SJ908-214	7680 (28)	63.3	39	1.0	1.0	1.0	1.3
1650	WB SJ908-247	7470 (30)	62.9	39	1.0	1.0	1.0	1.5
1651	WB SJ908-203	7430 (31)	63.9	41	1.0	1.0	1.0	1.5
1657	BLANCA GRANDE 515	8860 (5)	65.3	42	1.0	1.0	1.0	1.0
1658	SUMMIT 515	8830 (6)	62.6	41	1.0	1.0	1.0	1.3
1659	RSI 05W90192	8080 (23)	63.7	38	1.0	1.0	1.0	1.3
1660	RSI 05W90314	8210 (22)	61.6	41	1.0	1.0	1.0	1.0
1661	RSI 04W40311	7660 (29)	63.9	43	1.0	1.0	1.0	1.0
1662	RSI 05W90845	8280 (20)	62.7	40	1.0	1.0	1.0	1.3
1663	RSI 05W90908R	8720 (10)	62.9	41	1.0	1.0	1.0	1.0
1664	RSI 05W90908W	8390 (17)	63.6	40	1.0	1.0	1.0	1.0
1665	RSI 05W90818	7770 (26)	63.2	41	1.0	1.0	1.0	1.0
1666	RSI 03W10068	8570 (13)	63.7	40	1.0	1.0	1.0	1.0
1667	NEW DIRKWIN	5620 (39)	55.5	48	1.0	1.0	1.0	1.0
1673	WWW CNBR9302	7380 (34)	60.8	50	1.0	1.0	1.0	2.5

TRITICALE									
3097	TRICAL BRAND 105	7630	(4)	59.1	50	1.0	1.0	1.8	2.0
3156	TRICAL BRAND 118	8640	(2)	59.1	44	1.0	1.0	3.3	1.0
3164	PACHECO	7340	(5)	56.8	46	1.0	2.3	2.8	1.3
3165	RSI 05T14065	8700	(1)	58.3	44	1.0	1.0	1.0	1.3
3166	RSI 05T14058	7880	(3)	58.3	42	1.0	1.3	1.8	1.0
	MEAN	7900		62.0	42	1.0	1.2	1.5	1.3
	CV	6		0.6	3.1	28.7	31.6	19.6	37.1
	LSD (.05)	670		0.7	3	0.4	0.5	0.4	0.7

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

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

Numbers in parentheses indicate relative rank in column.

* Data inferred from Elite trial same loc.

2010 KINGS DURUM WHEAT								
Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust 4/8/10	Stripe Rust 5/5/10	BYDV 5/5/10
CULTIVARS								
878	DURAKING	6920 (21)	58.8	39	1.0	2.5	2.8	1.0
951	KRONOS	8390 (14)	61.0	41	1.3	1.8	3.8	1.0
1166	CROWN	7490 (17)	59.2	43	1.0	1.0	1.0	1.0
1210	PLATINUM	8510 (10)	62.3	36	1.0	1.0	1.0	1.0
1211	TOPPER	7170 (19)	61.0	42	1.0	1.0	2.5	1.0
1375	DESERT KING	8390 (13)	62.5	41	1.0	1.0	1.0	1.0
1429	FORTISSIMO	8630 (8)	63.0	39	1.0	1.0	1.0	1.0
1430	RSI 59	8670 (4)	62.6	39	1.0	1.0	1.5	1.0
1431	VOLANTE	8180 (15)	63.8	35	1.0	1.0	1.3	1.0
1484	WESTMORE	9710 (1)	62.5	39	1.0	1.0	1.3	1.3
1582	MAESTRALE	8520 (9)	61.7	45	1.8	1.3	1.5	1.0
1583	SARAGOLLA	5950 (25)	60.4	38	1.0	1.3	3.0	1.3
ADVANCED LINES								
1435	WWW D8270	7830 (16)	62.1	40	1.0	1.0	1.5	1.0
1585	UCD 06222/53	7400 (18)	62.5	43	1.3	1.5	4.0	1.0
1589	NORMANO	6130 (23)	60.6	42	1.0	1.3	3.0	2.0
1606	WB DA 804-24	8660 (6)	63.5	36	1.0	1.0	2.5	1.8
1628	UCD 08201/20	6880 (22)	60.9	47	1.8	1.3	2.8	1.5
1629	UCD 08201/21	8670 (5)	63.6	39	1.0	1.0	1.0	1.0
1640	APB D1-2	8630 (7)	61.5	36	1.0	1.0	1.0	2.5
1641	APB D2-97	9370 (2)	63.1	39	1.0	1.0	1.0	1.0
1644	UCD 09210/17	6110 (24)	59.2	36	1.0	2.3	3.3	1.8
1645	UCD 09213/30	8500 (11)	60.1	42	1.0	1.0	1.0	1.0
1646	UCD 09220/135	8690 (3)	62.8	43	1.0	1.0	2.8	1.0
1656	WB SJ807-006	6970 (20)	58.5	36	1.0	2.3	4.3	1.0
1672	APB D2-95	8420 (12)	63.3	42	1.3	1.0	1.0	1.0
1674	TANGO	5700 (26)	59.2	41	1.0	2.5	4.3	1.0
	MEAN	7870	61.5	40.0	1.1	1.3	2.1	1.2
	CV	6.4	1.1	2.7	34.9	36.2	20.1	28.6
	LSD (.05)	710	1.4	2.0	ns	0.7	0.6	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.								

2010 FRESNO COMMON WHEAT						
Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	Plant Ht (in)	Stripe Rust 4/8/10	Stripe Rust 4/28/10
CULTIVARS						
20	ANZA	4700 (36)	59.8	39	3.8	5.8
112	YECORA ROJO	3570 (38)	58.3	34	6.3	8.0
788	EXPRESS	5860 (33)	62.2	41	3.3	3.8
1155	SUMMIT	7630 (12)	63.2	37	1.0	1.5
1156	BLANCA GRANDE	6920 (22)	64.9	40	1.3	1.0
1424	JOAQUIN	7040 (20)	64.2	39	1.3	1.3
1478	CAL ROJO	8050 (6)	63.7	37	1.0	1.0
1500	EXPRESSO	6270 (28)	63.6	42	1.0	1.0
1521	REDWING	7790 (9)	63.1	35	1.0	1.0
1522	BLANCA ROYALE	8040 (7)	64.6	38	1.0	1.0
1523	BLANCA FUERTE	8240 (1)	65.1	37	1.0	1.0
1548	CHRISTALLO	7420 (14)	63.7	40	1.0	1.0
1555	LARIAT	7740 (11)	64.1	39	1.0	1.0
1605	PALOMA	6920 (22)	64.7	39	1.0	1.0
ADVANCED LINES						
1599	UCD 07013/24	8090 (5)	62.8	41	1.0	1.0
1600	UCD 07013/30	7240 (18)	63.5	35	1.0	1.0
1608	WWW CNBR9330	6580 (27)	61.7	48	1.8	1.3
1616	UCD 0810/5	6760 (25)	63.9	31	1.0	1.8
1624	WB DA905-10	7820 (8)	63.6	41	1.0	1.0
1638	APB W 11-6	4570 (37)	62.9	43	1.0	1.3
1642	UCD 09013/4	6100 (30)	62.0	41	1.0	1.3
1643	UCD 09014/16	7280 (16)	63.9	44	1.3	1.0
1647	WB SJ908-186	5510 (34)	63.9	36	1.0	1.0
1648	WB SJ908-181	6200 (29)	63.8	43	1.0	1.0
1649	WB SJ908-214	6020 (32)	63.6	36	1.0	1.0
1650	WB SJ908-247	6100 (30)	63.4	37	1.0	1.0
1651	WB SJ908-203	5190 (35)	63.9	36	1.0	1.0
1657	BLANCA GRANDE 51	6710 (26)	64.5	38	1.0	1.0
1658	SUMMIT 515	7310 (15)	63.8	37	1.0	1.0
1659	RSI 05W90192	7760 (10)	64.4	38	1.0	1.0
1660	RSI 05W90314	8130 (4)	63.8	40	1.0	1.0
1661	RSI 04W40311	6920 (22)	65.6	40	1.0	1.0
1662	RSI 05W90845	6930 (21)	64.1	37	1.0	1.0
1663	RSI 05W90908R	8180 (2)	64.2	42	1.3	1.0
1664	RSI 05W90908W	8160 (3)	64.5	39	1.0	1.0
1665	RSI 05W90818	7510 (13)	64.3	40	1.0	1.0
1666	RSI 03W10068	7260 (17)	64.4	39	1.0	1.0
1673	WWW CNBR9302	7130 (19)	63.1	49	1.3	1.0
TRITICALE						
3097	TRICAL BRAND 105	6890 (4)	60.4	47	1.0	1.5
3156	TRICAL BRAND 118	7630 (2)	60.6	42	2.0	2.8
3164	PACHECO	6830 (5)	60.4	43	2.5	3.0
3165	RSI 05T14065	8070 (1)	60.2	42	1.3	1.3
3166	RSI 05T14058	7630 (2)	60.9	39	1.3	1.8
	MEAN	6950	63.2	39	1.4	1.5
	CV	5.1	0.4	3.3	23.7	20.8
	LSD (.05)	500	0.6	3.0	0.4	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.

2010 Common Wheat Stripe Rust Over Location Summary								
Entry	Name	Stripe Rust						
		Mean	Colusa	UC	Sac/SJ	Kern	Kings	Fresno
		(6 Loc)	4/23	Davis 5/17	Delta 5/12	5/6	5/5	4/28
CULTIVARS								
20	ANZA	4.8 (34)	4.8	5.5	5.0	4.0	4.0	5.8
112	YECORA ROJO	7.8 (35)	7.0	8.0	8.0	7.5	8.0	8.0
788	EXPRESS	4.1 (33)	4.0	4.5	4.8	3.8	4.0	3.8
1155	SUMMIT	1.9 (31)	1.0	4.5	2.3	1.0	1.3	1.5
1156	BLANCA GRANDE	1.9 (30)	1.0	4.5	2.3	1.0	1.5	1.0
1424	JOAQUIN	2.3 (32)	1.0	4.5	2.8	1.0	3.3	1.3
1478	CAL ROJO	1.0 (1)	1.0	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	1.0
1521	REDWING	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1522	BLANCA ROYALE	1.0 (18)	1.0	1.0	1.3	1.0	1.0	1.0
1523	BLANCA FUERTE	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1548	CHRISTALLO	1.0 (18)	1.0	1.3	1.0	1.0	1.0	1.0
1555	LARIAT	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1605	PALOMA	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
ADVANCED LINES								
1599	UCD 07013/24	1.0 (18)	1.0	1.3	1.0	1.0	1.0	1.0
1600	UCD 07013/30	1.0 (18)	1.0	1.0	1.3	1.0	1.0	1.0
1608	WW CNBR9330	1.1 (22)	1.0	1.0	1.3	1.0	1.0	1.3
1616	UCD 0810/5	1.8 (29)	1.0	3.0	2.5	1.0	1.5	1.8
1624	WB DA905-10	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1638	APB W11-6	1.4 (24)	1.0	2.8	1.0	1.3	1.0	1.3
1642	UCD 09013/4	1.4 (25)	1.0	2.0	2.3	1.0	1.0	1.3
1643	UCD 09014/16	1.6 (26)	1.0	4.3	1.3	1.0	1.0	1.0
1647	WB SJ908-186	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1648	WB SJ908-181	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1649	WB SJ908-214	1.6 (26)	1.0	2.0	3.5	1.0	1.0	1.0
1650	WB SJ908-247	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1651	WB SJ908-203	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1657	BLANCA GRANDE 515	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1658	SUMMIT 515	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1659	RSI 05W90192	1.1 (22)	1.0	1.0	1.0	1.5	1.0	1.0
1660	RSI 05W90314	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1661	RSI 04W40311	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
1662	RSI 05W90845	1.8 (28)	1.0	4.5	2.0	1.0	1.0	1.0
1667	New Dirkwin	1.0 (1)	1.0	1.0	-	1.0	1.0	-
1673	WW CNBR9302	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0
TRITICALE								
3097	TRICAL BRAND 105	2.0 (2)	2.3	3.3	2.3	1.3	1.8	1.5
3156	TRICAL BRAND 118	3.1 (4)	3.5	4.3	3.0	2.0	3.3	2.8
3164	PACHECO	3.5 (5)	5.3	4.8	4.3	1.3	2.8	3.0
3165	RSI 05T14065	1.5 (1)	1.8	2.5	1.8	1.0	1.0	1.3
3166	RSI 05T14058	2.1 (3)	2.3	3.8	2.0	1.0	1.8	1.8
	MEAN	1.7	1.6	2.3	1.9	1.3	1.5	1.5
	CV	23.2	12.7	21.3	35.2	14.8	19.6	20.8
	LSD (.05)	0.2	0.3	0.7	0.9	0.3	0.4	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.								

2010 FRESNO DURUM						
Entry	Name	Yield (lbs/acre)	Plant Ht (in)	Stripe Rust 4/8/10	Stripe Rust 4/28/10	
CULTIVARS						
878	DURAKING	7270 (14)	37	2.0	2.0	
951	KRONOS	7200 (15)	40	1.8	2.3	
1166	CROWN	7960 (3)	43	1.0	1.0	
1210	PLATINUM	7130 (18)	34	1.0	1.0	
1211	TOPPER	6660 (21)	42	1.3	1.0	
1375	DESERT KING	7460 (9)	40	1.0	1.0	
1429	FORTISSIMO	8290 (2)	38	1.0	1.0	
1430	RSI 59	7470 (8)	39	1.0	1.0	
1431	VOLANTE	7720 (5)	36	1.0	1.0	
1484	WESTMORE	7410 (10)	39	1.0	1.0	
ADVANCED LINES						
1435	WWW D8270	6910 (19)	38	1.3	1.8	
1585	UCD 06222/53	7360 (11)	42	1.8	3.5	
1606	WB DA804-24	7330 (13)	37	1.5	2.8	
1628	UCD 08201/20	7870 (4)	49	1.3	1.5	
1629	UCD 08201/21	7540 (7)	39	1.0	1.0	
1640	APB D1-2	7170 (16)	37	1.0	1.0	
1641	APB D2-97	7570 (6)	40	1.0	1.5	
1644	UCD 09210/17	5920 (22)	38	3.5	3.5	
1645	UCD 09213/30	9150 (1)	41	1.0	1.3	
1646	UCD 09220/135	7330 (12)	42	1.3	1.8	
1656	WB SJ807-006	6750 (20)	35	1.5	3.5	
1672	APB D2-95	7140 (17)	41	1.0	1.0	
1674	TANGO	5730 (23)	42	1.8	3.0	
	MEAN	7320	39.0	1.3	1.7	
	CV	4.3	2.9	28.5	25.4	
	LSD (.05)	440	2.0	0.5	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.						

2010 FRESNO BARLEY								
Entry	Name	Yield (lbs/acre)	Plant Ht (in)	Scald 4/8/10	Net		Stripe	
					Blotch 4/28/10	Rust 4/8/10	Rust 4/28/10	
CULTIVARS								
603	UC 603	6050 (23)	37	1.0	1.8	1.0	1.0	
816	MAX	5740 (26)	27	1.0	1.0	1.8	3.8	
933	UC 933	6340 (19)	37	1.3	1.0	1.0	1.0	
951	MELTAN	5360 (28)	34	1.0	1.5	1.0	1.0	
969	UC 969	4700 (30)	44	1.0	1.0	1.0	1.0	
1047	ISHI	7330 (7)	37	1.5	1.0	1.0	1.0	
1134	TAMALPAIS	6430 (16)	33	2.0	1.0	1.0	1.0	
ADVANCED LINES								
1231	UCD 08YP 111	8080 (1)	42	1.3	1.0	1.0	1.0	
1232	UCD 08YP 301	6380 (18)	39	1.3	1.0	1.0	1.0	
1236	UCD 08YP 258	5300 (29)	38	1.0	3.5	1.0	1.0	
1248	UCD B99	7010 (10)	34	1.0	1.0	1.0	1.0	
1249	UCD B110	6990 (11)	40	1.0	1.0	1.0	1.0	
1250	UCD B102	7500 (4)	40	1.3	1.0	1.0	1.0	
1251	UCD B103	6390 (17)	40	1.3	1.0	1.0	1.0	
1252	UCD B156	7460 (5)	41	1.0	1.0	1.0	1.0	
1253	UCD B98	6320 (21)	34	1.0	1.0	1.0	1.0	
1254	UCD C284	6800 (13)	40	1.3	1.3	1.0	1.0	
1255	UCD B369	7300 (8)	38	1.3	1.5	1.0	1.0	
1256	UCD B398	7710 (2)	38	1.0	1.0	1.0	1.0	
1257	UCD B47	6330 (20)	42	1.3	1.5	1.0	1.0	
1258	UCD A34	7130 (9)	39	1.5	1.0	1.0	1.0	
1259	UCD B366	6940 (12)	40	1.0	2.3	1.0	1.0	
1260	UCD B372	7410 (6)	38	1.0	1.0	1.0	1.0	
1261	UCD A237	7530 (3)	39	1.0	1.0	1.0	1.0	
1262	UCD C28	6200 (22)	37	1.0	1.0	1.0	1.0	
1263	UCD C43	6520 (15)	36	1.3	1.0	1.0	1.0	
1264	UCD C46	5990 (24)	33	1.0	1.0	2.0	1.0	
1265	UCD C48	5750 (25)	40	1.5	1.0	1.8	1.0	
1266	UCD C51	6570 (14)	36	1.0	1.0	1.0	1.0	
1267	UCD C60	5730 (27)	40	2.3	1.0	1.0	1.0	
	MEAN	6580	38	1.2	1.2	1.1	1.1	
	CV	7.7	4.4	35.8	34.8	43.4	16.0	
	LSD (.05)	710	3.0	0.6	0.6	ns	0.3	

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.

2010 Barley Stripe Rust Over Location Summary						
Entry	Name	Stripe Rust				
		Mean (4 Loc)	UC Davis 12-May	UC Davis RF 12-May	Fresno 29-Apr	San Luis Obispo RF 28-Apr
CULTIVARS						
603	UC 603	1.0 (1)	1.0	1.0	1.0	1.0
816	MAX	3.9 (24)	3.8	2.8	3.8	4.8
933	UC 933	1.0 (1)	1.0	1.0	1.0	1.0
951	MELTAN	1.1 (12)	1.0	1.0	1.0	1.3
969	UC 969	1.0 (1)	1.0	1.0	1.0	1.0
1047	ISHI	1.1 (12)	1.0	1.0	1.0	1.3
1134	TAMALPAIS	1.4 (20)	1.0	1.3	1.0	2.0
ADVANCED LINES						
1231	UCD 08YP 111	1.2 (18)	1.3	1.0	1.0	1.5
1232	UCD 08YP 301	1.0 (1)	1.0	1.0	1.0	1.0
1236	UCD 08YP 258	1.4 (22)	1.5	2.0	1.0	1.5
1248	UCD B99	1.0 (1)	1.0	1.0	1.0	1.0
1249	UCD B110	1.1 (12)	1.0	1.0	1.0	1.3
1250	UCD B102	1.6 (23)	1.0	1.3	1.0	2.8
1251	UCD B103	1.0 (1)	1.0	1.0	1.0	1.0
1252	UCD B156	1.0 (1)	1.0	1.0	1.0	1.0
1253	UCD B98	1.0 (1)	1.0	1.0	1.0	1.0
1254	UCD C284	1.1 (12)	1.0	1.0	1.0	1.3
1255	UCD B369	1.3 (19)	1.0	1.0	1.0	1.8
1256	UCD B398	1.0 (1)	1.0	1.0	1.0	1.0
1257	UCD B47	1.4 (20)	1.8	1.0	1.0	1.8
1258	UCD A 34	1.1 (12)	1.0	1.0	1.0	1.3
1259	UCD B366	1.1 (17)	1.0	1.3	1.0	1.3
1260	UCD B372	1.0 (1)	1.0	1.0	1.0	1.0
1261	UCD A 237	1.0 (1)	1.0	1.0	1.0	1.0
	MEAN	1.2	1.1	1.1	1.1	1.4
	CV	36.1	24.8	45.7	16.0	39.5
	LSD (.05)	0.4	0.4	0.7	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.						

2010 TULARE RAINFED COMMON WHEAT

Entry	Name	Yield (lbs/acre)	Test Wt (lbs/bu)	1000 Kernel Wt (g)	Plant Ht (in)	Stripe Rust 4/18/10
<u>CULTIVARS</u>						
20	ANZA	2430 (23)	62.5	40.2	25	3.3
112	YECORA ROJO	2100 (30)	61.3	39.5	27	4.5
788	EXPRESS	2650 (13)	63.0	37.2	28	1.0
1155	SUMMIT	2750 (8)	61.9	37.3	25	1.0
1156	BLANCA GRANDE	2970 (3)	64.6	41.7	29	1.0
1424	JOAQUIN	2850 (5)	64.1	40.0	31	1.0
1478	CAL ROJO	2960 (4)	62.9	41.8	28	1.0
1500	EXPRESSO	2590 (19)	63.0	36.5	31	1.0
1521	REDWING	2320 (27)	61.6	39.7	26	1.0
1522	BLANCA ROYALE	2780 (6)	62.4	36.7	29	1.0
1523	BLANCA FUERTE	2770 (7)	64.4	40.1	25	1.0
1548	CHRISTALLO	2560 (21)	63.3	36.2	25	1.0
1550	TRIPLE IV	2560 (21)	63.0	42.1	38	1.0
1555	LARIAT	2740 (9)	63.3	36.9	28	1.0
1605	PALOMA	3240 (1)	64.1	44.3	30	1.0
1668	CHIDDAM BLANC DE MARS	2270 (28)	60.3	34.2	40	3.3
1669	INDIA-JAMMU	1890 (31)	62.6	33.9	39	1.0
1670	FOISY	1080 (33)	57.1	30.5	33	1.0
1671	ETHIOPIAN BLUE TINGE	690 (34)	56.6	36.5	28	1.0
<u>ADVANCED LINES</u>						
1599	UCD 07013/24	2610 (16)	62.0	34.6	26	1.0
1600	UCD 07013/30	2610 (16)	63.0	43.5	26	1.0
1608	WWW CNBR9330	2390 (24)	62.0	35.0	25	1.0
1616	UCD 0810/5	2670 (12)	63.7	41.5	21	1.0
1624	WB DA905-10	2700 (10)	62.4	36.0	27	1.0
1642	UCD 09013/4	2690 (11)	62.0	38.5	29	1.0
1643	UCD 09014/16	1730 (32)	61.0	40.1	32	1.0
1647	WB SJ908-186	2610 (16)	64.7	45.7	32	1.0
1648	WB SJ908-181	2630 (15)	64.2	43.1	29	1.0
1649	WB SJ908-214	2360 (25)	63.5	44.4	28	1.0
1650	WB-Rockland	2640 (14)	63.4	37.8	27	1.0
1651	WB SJ908-203	2360 (25)	64.8	43.9	31	1.0
1657	BLANCA GRANDE 515	3020 (2)	64.5	37.7	32	1.0
1659	RSI 05W90192	2590 (19)	63.3	38.7	27	1.0
1673	WWW CNBR9302	2210 (29)	62.5	36.7	27	1.0
<u>TRITICALE</u>						
3097	TRICAL BRAND 105	2450 (4)	58.2	40.4	32	1.0
3156	TRICAL BRAND 118	3100 (1)	59.3	31.1	31	1.0
3164	PACHECO	3070 (3)	58.8	37.4	32	1.0
3166	RSI 05T14058	3090 (2)	59.0	33.0	26	1.0
	MEAN	2520	62.3	38.5	29.0	1.21
	CV	8.2	1.3	4.7	7.8	22.4
	LSD (.05)	290	1.6	3.6	5.0	0.4

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

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Numbers in parentheses indicate relative rank in column.

2010 TULARE RAINFED BARLEY

Entry	Name	Yield (lbs/acre)	Plant Ht (in)
<u>CULTIVARS</u>			
603	UC 603	2790 (20)	28
816	MAX	2230 (24)	17
933	UC 933	3890 (1)	30
951	MELTAN	3390 (7)	24
969	UC 969	3530 (3)	31
1047	ISHI	3400 (6)	26
1134	TAMALPAIS	3430 (5)	26
<u>ADVANCED LINES</u>			
1231	UCD 08YP 111	3220 (10)	30
1232	UCD 08YP 301	3850 (2)	29
1236	UCD 08YP 258	2610 (22)	27
1248	UCD B99	3450 (4)	25
1249	UCD B110	2920 (17)	27
1250	UCD B102	3110 (12)	28
1251	UCD B103	2860 (18)	30
1252	UCD B156	3260 (9)	28
1253	UCD B98	2740 (21)	25
1254	UCD C284	2840 (19)	27
1255	UCD B369	2960 (14)	29
1256	UCD B398	2950 (15)	27
1257	UCD B47	2550 (23)	29
1258	UCD A34	2950 (16)	29
1259	UCD B366	3200 (11)	30
1260	UCD B372	3350 (8)	27
1261	UCD A237	3010 (13)	25
	MEAN	3100	27
	CV	6.8	5.1
	LSD (.05)	300	3.0

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

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Numbers in parentheses indicate relative rank in column.

Small Grain Silage Variety Trial 2010 – Tulare Co.

S. Wright, L. Banuelos, C. Collar, N. Silva del Rio

Variety	Type	Green Tons/A	% Harvest H2O	Tons/A at 70% H2O	% Lodging	Height in Inches
Pacheco	Triticale	25.0	67.56	26.91 A	0	47.0
Redwing	Hard Red Wheat	20.7	62.55	25.63 A	8	41.5
3002	Triticale	23.6	68.18	24.93 AB	8	44.3
Trical 14058	Triticale	26.6	71.97	24.92 AB	0	41.3
Blanca Royale	Hard White Wheat	19.3	61.59	24.77 ABC	31	39.8
Joaquin	Hard Red Wheat	18.6	63.41	22.61 BCD	48	41.3
Trical 118	Triticale	21.5	68.45	22.53 BCD	61	42.0
PR 1404	Red Forage Wheat	20.4	67.2	22.33 CD	46	42.8
Cleda	Awnless Wheat	21.0	68.66	21.89 D	40	44.3
Ultra	Hard Red Wheat	19.0	65.59	21.75 D	14	41.3
<i>LSD 0.05</i>		<i>2.51</i>	<i>2.34</i>	<i>2.58</i>	<i>13.57</i>	
<i>% CV</i>		<i>8.04</i>	<i>2.43</i>	<i>7.48</i>	<i>37.79</i>	

*Varieties followed by the same letter are statistically the same.

Small Grain News

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In this issue:

Small Grain Performance Trials in
Kings and Tulare Counties

Steve Wright, Farm Advisor