

September 2011

Kings, Fresno 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, Tulare, 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. The Tulare site was rain fed, but received 100 pounds of Nitrogen. Special thanks to Boyett Farms, Changala Farms, Milky Way Dairy, and WSREC for their cooperation in these studies. An Agronomy Progress Report containing more detailed results from all trials is available at: <http://smallgrains.ucdavis.edu> and <http://cetulare.ucdavis.edu>.

The 2011 cool weather delayed crop development and wheat harvest by about 10 days. Weather conditions were ideal for wheat stripe rust. 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.
- Second, 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 indicate:

Susceptible: Yecora Rojo, Mika, Blanca Grande, WB-Paloma, Joaquin, Pacheco-(T)

Moderately Susceptible: Kronos-(D), Duraking-D, Topper- (D), Clear White, Triple IV-(BW)

Moderately resistant: PR 1404-(BW), Redwing, Ultra, WB-Cristallo, Westmore- D, Crown-D, Platinum-(D) , Trical 118 (T), Camelot-(T),

Resistant: Cal Rojo, Expresso, Blanca Royale, Blanca Fuerte, Blanca Grande 515, Summit 515, Lariat, Lassik, Patwin, WB-Rockland, Fortissimo- (D), Volante-(D), Desert King- (D), Trical 115-(T)

D=Durums, T= Triticale, BR= beardless wheat The remainder are common wheats.

2011 California Wheat Variety Survey California Wheat Commission

Overall estimated wheat plantings for the 2011 harvest season were up ~14% from last year's plantings, for a total of ~750,000 acres. Statewide, Durum acreage showed the largest percentage increase (nearly 30%) while Hard Red wheat plantings were up ~13%. Hard White acreage was down 10%, mostly due to less white wheat in the Sacramento Valley region. Soft white wheat in far Northern California is estimated up substantially from last year's below-normal plantings.

CALIFORNIA'S RED AND WHITE WHEATS:

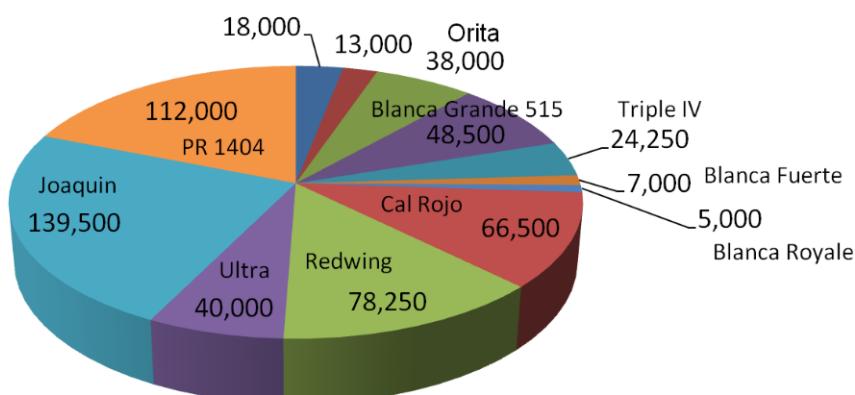
Combined red and white wheat in California accounted for 86% of all wheat acreage planted, with red wheat alone accounting for 70% of the varieties planted. Growers in both the San Joaquin and Sacramento Valleys planted more Hard Red wheat this year. Joaquin and the hay/forage variety PR1404 topped the list of red acreage planted in the San Joaquin Valley, whereas the varieties Redwing, PR1404 and Cal Rojo had the most acreage in the Sacramento Valley. Hard White acreage in the San Joaquin Valley was unchanged from last year; most of this acreage shifted to Blanca Grande 515. And although total overall acreage in the Sacramento Valley was up, growers planted less Hard White wheat in this region. Spring wheat planting is just getting started in far Northern California, but estimates are that plantings will increase substantially from last year's lower levels.

DURUM:

The nearly 30% increase in Durum acreage this year was a result of increased Desert Durum® plantings in southern California. Orita, Desert King, and Havasu continue to be the top varieties planted in that region. The Durum planted in the San Joaquin Valley was dominated by the variety Platinum for the second year in a row. Durum acreage in the San Joaquin Valley was down slightly from last year.

CA Wheat Estimates - 2011

<http://www.californiawheat.org/>



KINGS COMMON WHEAT AND TRITICALE

Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Lodging Harvest	Shatter	BYDV 5/16/2011	Stripe Rust 5/16/2011
CULTIVARS								
20	ANZA	6210	(31)	62.6	40	4.8	1.0	1.8
112	YECORA ROJO	5490	(35)	61.3	35	4.3	1.0	1.0
474	DIRKWIN	2860	(39)	57.0	45	7.0	1.0	1.0
788	EXPRESS	7460	(15)	63.0	41	3.5	1.0	1.5
1340	MIKA	5710	(33)	60.0	46	3.8	1.0	2.8
1361	CLEAR WHITE	7200	(22)	63.3	40	1.0	1.0	1.5
1419	PATWIN	7870	(8)	61.8	38	2.3	1.0	1.3
1424	JOAQUIN	6560	(29)	61.5	38	2.5	1.0	1.0
1478	CAL ROJO	8620	(1)	61.9	37	1.0	1.0	1.0
1495	LASSIK	6930	(26)	62.9	39	4.5	1.0	1.0
1500	EXPRESSO	7930	(6)	63.2	42	1.3	1.0	1.3
1521	REDWING	8090	(4)	62.0	35	3.3	1.0	1.3
1522	BLANCA ROYALE	7660	(10)	63.0	36	2.8	1.0	1.8
1523	BLANCA FUERTE	7430	(17)	64.3	37	1.0	1.0	1.0
1526	PR 1404	7350	(18)	62.6	41	4.5	1.0	1.8
1548	WB-CRISTALLO	6670	(27)	62.7	40	6.3	1.0	1.0
1550	TRIPLE IV	4290	(38)	62.1	39	7.0	1.3	1.0
1590	ULTRA	7330	(20)	63.2	36	2.5	1.0	1.3
1605	WB-PALOMA	7450	(16)	63.4	39	3.8	1.0	1.8
1650	WB-ROCKLAND	7020	(25)	63.4	35	1.0	1.0	1.5
ADVANCED LINES								
1657	BLANCA GRANDE 515	7550	(11)	64.6	40	3.8	1.0	1.0
1658	SUMMIT 515	8210	(3)	63.2	39	1.0	1.0	1.0
1667	NEW DIRKWIN	4890	(36)	58.1	42	6.8	1.0	1.5
1679	CLEAR WHITE 515HP2	7200	(22)	62.7	40	1.0	1.0	1.5
1680	PATWIN 515	7350	(18)	62.5	34	1.0	1.0	1.3
1681	PATWIN 5	7830	(9)	62.6	34	1.0	1.0	1.0
1682	KERN 515HP2NS	6410	(30)	62.6	36	1.0	1.0	1.3
1683	UC 1683	7330	(20)	61.7	38	4.3	1.0	1.3
1684	CABR3509W	7520	(13)	63.2	38	4.0	1.0	1.8
1685	BR5874	5620	(34)	58.3	43	1.3	1.0	1.3
1686	08SB100	6570	(28)	63.3	41	1.0	1.0	1.3
1687	06SB100-B	8080	(5)	61.7	40	4.3	1.0	1.0
1688	08SB0658-B	7540	(12)	63.0	42	5.3	1.0	1.0
1699	W5-46ML	6070	(32)	59.4	46	6.8	1.0	1.5
1700	W-14AL	4740	(37)	59.2	45	7.3	1.0	1.0
1703	05W90192	7110	(24)	63.5	37	1.0	1.0	1.0
1704	05W90314	8290	(2)	62.0	39	3.5	1.0	1.0
1705	05W90818	7480	(14)	63.0	38	1.3	1.0	1.5
1706	03W10068	7880	(7)	63.9	36	1.0	1.0	1.0
TRITICALE								
3097	TRICAL BRAND 105	8140	(4)	60.2	53	2.5	1.0	1.3

3156	TRICAL BRAND 118	8970	(1)	59.9	43	2.3	1.0	1.0	1.8
3167	05T14058	8550	(2)	60.3	44	1.0	1.0	1.0	1.0
3168	05T14084	8150	(3)	60.4	39	1.0	1.0	1.0	1.0
3169	CAMELOT	7980	(5)	59.0	43	1.3	1.0	1.0	1.0
	MEAN	7080		61.9	39	3.0	1.0	1.3	2.1
	CV	9.1		0.9	3.8	44.6	7.5	38.4	18.0
	LSD (.05)	900		1.1	3	1.9	ns	0.7	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.

KINGS DURUM WHEAT

Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Lodging Harvest	Stripe Rust 5/16/2011	BYDV 5/16/2011	
CULTIVARS								
878	DURAKING	8000	(25)	64.1	38	5.3	1.0	1.8
951	KRONOS	7230	(33)	63.0	37	6.8	2.3	1.3
1166	CROWN	7910	(26)	61.8	40	4.8	1.0	1.3
1210	PLATINUM	8170	(22)	63.7	36	7.0	1.0	1.3
1211	TOPPER	8970	(7)	63.9	41	3.0	1.8	1.8
1375	DESERT KING	9120	(4)	64.2	38	5.5	1.0	1.0
1429	FORTISSIMO	8450	(13)	62.6	39	6.8	1.0	1.0
1430	RSI 59	8650	(10)	62.9	38	5.5	1.5	1.0
1431	VOLANTE	8420	(16)	63.2	35	4.0	1.0	1.0
1440	HELIOS	7590	(28)	62.8	39	6.5	1.0	1.0
1473	Q-MAX	7360	(31)	61.4	42	3.0	1.0	1.5
1484	WESTMORE	8270	(19)	63.2	36	7.3	1.0	1.3
1582	MAESTRALE	8990	(6)	65.0	40	7.8	1.5	1.5
1583	SARAGOLLA	8780	(8)	64.7	38	7.5	3.0	1.0
1585	TIPAI	8260	(21)	63.7	40	7.8	1.8	1.0
1589	NORMANNO	7470	(30)	63.2	40	4.5	2.3	2.0
ADVANCED LINES								
1627	DESERT KING HP	7850	(27)	63.1	37	6.8	1.0	1.0
1640	D1-2	8010	(24)	62.0	32	5.3	1.0	1.0
1646	UCD 09220/135	8260	(20)	63.7	40	7.3	1.3	1.5
1689	UC 1689	8730	(9)	65.1	38	7.3	2.5	1.3
1690	UC 1690	9550	(1)	64.7	38	4.8	1.5	1.0
1691	UC 1691	9410	(2)	65.4	39	7.5	1.0	1.0
1692	UC 1692	8610	(11)	64.1	241	6.8	1.0	1.3
1693	UC 1693	8400	(17)	65.2	40	5.5	1.3	1.5
1694	D6575D	8100	(23)	64.4	38	5.0	1.0	1.0
1695	NDPRD3D13	8420	(15)	62.8	37	5.3	1.3	1.0
1696	UT07412	7310	(32)	62.7	38	7.0	2.3	1.3
1697	KIKO NICK	8420	(14)	62.9	38	7.5	1.0	1.0
1698	05E2844	8370	(18)	64.6	37	7.8	1.5	1.3
1701	D1-7AL	9370	(3)	64.3	37	7.3	1.5	1.0
1702	D1-35	7540	(29)	61.0	36	7.0	1.0	1.0

1707	07W60122	9000	(5)	63.4	37	2.3	1.3	1.0
1708	08W65113	8600	(12)	63.9	39	5.8	1.0	1.0
	MEAN	8350		63.5	44	6.0	1.4	1.2
	CV	6.4		0.4	112.2	21.2	29.4	32.9
	LSD (.05)	750		0.6	ns	1.8	0.6	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.

FRESNO COMMON WHEAT AND TRITICALE VARIETY TRIAL

Entry	Name	Plant				Stripe	
		Yield (lb/acre)	Test Wt (lb/bu)	Ht (in)	Lodging Harvest	BYDV 5/2/2011	Rust 5/2/2011
CULTIVARS							
20	ANZA	4930	(34)	61.0	38	3.3	1.0
112	YECORA ROJO	3710	(38)	58.1	37	5.3	1.0
474	DIRKWIN	2870	(39)	58.5	43	1.0	2.0
788	EXPRESS	6410	(19)	62.5	39	1.8	1.0
1340	MIKA	6030	(29)	60.9	44	2.0	1.0
1361	CLEAR WHITE	5940	(31)	63.1	35	1.0	1.0
1419	PATWIN	7130	(10)	62.3	39	1.0	1.0
1424	JOAQUIN	6210	(23)	61.2	36	2.3	1.0
1478	CAL ROJO	7290	(7)	61.6	37	1.0	1.5
1495	LASSIK	6870	(12)	63.1	37	4.0	1.0
1500	EXPRESSO	6210	(23)	63.2	41	1.3	1.0
1521	REDWING	7740	(1)	61.9	37	1.0	1.0
	BLANCA						
1522	ROYALE	7120	(11)	63.1	35	1.3	1.0
	BLANCA						
1523	FUERTE	7390	(4)	64.9	38	1.0	1.0
1526	PR 1404	7200	(9)	62.6	43	1.5	1.8
1548	WB-CRISTALLO	6560	(17)	63.2	40	1.3	1.0
1550	TRIPLE IV	4700	(35)	62.5	41	7.8	1.0
1590	ULTRA	7550	(2)	64.7	36	1.3	1.0
1605	WB-PALOMA	6340	(22)	62.7	37	4.3	1.0
1650	WB-ROCKLAND	6030	(29)	63.2	38	1.0	1.0
ADVANCED LINES							
	BLANCA GRANDE						
1657	515	6150	(27)	63.8	37	3.0	1.3
1658	SUMMIT 515	7380	(5)	63.4	38	1.3	1.0
1667	NEW DIRKWIN	5230	(33)	59.3	44	1.5	2.5
	CLEAR WHITE						
1679	515HP2	6160	(26)	62.3	38	1.8	1.5
1680	PATWIN 515	6720	(14)	62.2	34	1.0	1.0
1681	PATWIN 5	7270	(8)	62.3	40	1.0	1.3
1682	KERN 515HP2NS	6470	(18)	61.4	35	1.5	1.0

1683	UC 1683	6400	(20)	61.7	36	6.8	1.0	1.0	1.0
1684	CABR3509W	6780	(13)	63.5	38	1.8	1.0	1.0	1.3
1685	BR5874	4430	(37)	57.3	41	1.0	1.0	1.0	7.0
1686	08SB100	5520	(32)	63.7	41	1.0	1.0	1.3	1.0
1687	06SB100-B	6210	(23)	62.8	37	4.0	1.0	1.0	1.0
1688	08SB0658-B	7320	(6)	63.6	38	3.0	1.0	1.0	1.0
1699	W5-46ML	4560	(36)	58.4	41	4.3	1.0	1.0	5.8
1700	W-14AL	6040	(28)	61.7	43	6.8	1.3	1.0	4.0
1703	05W90192	6660	(15)	63.6	37	1.0	1.0	1.0	1.0
1704	05W90314	7410	(3)	62.4	41	1.5	1.3	1.0	1.0
1705	05W90818	6590	(16)	63.5	40	1.0	1.0	1.0	1.0
1706	03W10068	6380	(21)	63.0	38	1.5	1.0	1.0	1.3

TRITICALE

TRICAL BRAND									
3097	105	6720	(5)	60.0	47	1.0	1.0	1.0	1.0
TRICAL BRAND									
3156	118	7560	(3)	60.6	43	1.8	1.3	1.0	2.3
3167	05T14058	7800	(1)	60.7	43	1.0	1.0	1.0	2.0
3168	05T14084	7700	(2)	60.5	42	1.0	1.0	1.0	2.3
3169	CAMELOT	6740	(4)	58.6	43	1.0	1.0	1.0	4.5
MEAN		6370		61.9	39	2.1	1.2	1.0	2.4
CV		7.9		1.0	5.1	40.0	34.8	15.4	19.3
LSD (.05)		700		1.3	4	1.2	0.6	0.2	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.

FRESNO DURUM WHEAT VARIETY TRIAL

Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Lodging Harvest	Shatter	Stripe Rust 5/2/2011	BYDV 5/2/2011
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CULTIVARS

878	DURAKING	6810	(27)	64.5	38	0.9	1.1	3.0	1.0
951	KRONOS	6790	(28)	63.5	39	4.8	1.0	3.0	1.0
1166	CROWN	7360	(13)	63.1	41	1.8	1.5	1.3	1.0
1210	PLATINUM	7320	(14)	63.8	35	3.5	1.3	1.0	1.0
1211	TOPPER	7910	(5)	64.7	42	1.0	1.0	1.8	1.3
1375	DESERT KING	8020	(2)	65.0	41	1.5	1.0	1.0	1.0
1429	FORTISSIMO	7790	(6)	63.7	38	1.8	1.0	1.0	1.0
1430	RSI 59	7580	(9)	64.2	39	2.5	2.3	1.0	1.0
1431	VOLANTE	7970	(4)	65.1	39	1.0	1.3	1.0	1.0
1440	HELIOS	7760	(7)	63.4	39	2.8	1.5	1.8	1.0
1473	Q-MAX	6100	(33)	62.1	42	1.8	2.0	1.0	1.3
1484	WESTMORE	7710	(8)	63.3	40	2.0	1.0	1.0	1.0
1582	MAESTRALE	7160	(19)	64.4	42	5.3	1.8	1.8	1.0
1583	SARAGOLLA	7530	(11)	65.0	39	3.3	1.0	2.0	1.0
1585	TIPAI	6940	(26)	64.1	37	5.8	1.8	2.8	1.3

1589	NORMANNO	6780	(29)	64.2	41	2.0	1.0	3.0	1.0
<u>ADVANCED LINES</u>									
1627	DESERT KING HP	6980	(24)	62.7	39	1.3	1.3	1.3	1.0
1640	D1-2	7450	(12)	63.0	35	4.8	1.3	1.0	1.0
1646	UCD 09220/135	7040	(23)	63.9	40	4.3	1.5	2.0	1.0
1689	UC 1689	6440	(32)	64.4	41	3.0	1.3	3.0	1.3
1690	UC 1690	7050	(22)	64.6	39	3.0	1.3	2.0	1.0
1691	UC 1691	7220	(17)	64.7	39	6.3	1.0	1.0	1.0
1692	UC 1692	6650	(31)	64.7	41	2.8	1.8	1.3	1.0
1693	UC 1693	7110	(20)	65.4	38	4.0	1.8	1.5	1.0
1694	D6575D	7090	(21)	64.5	39	1.3	1.0	1.0	1.0
1695	NDPRD3D13	7200	(18)	64.0	39	4.3	1.5	1.5	1.0
1696	UT07412	7320	(15)	63.0	39	2.8	1.0	2.3	1.0
1697	KIKO NICK	8170	(1)	63.8	40	3.5	1.8	1.0	1.0
1698	05E2844	6690	(30)	63.0	40	5.3	1.0	1.3	1.0
1701	D1-7AL	8010	(3)	64.7	40	2.0	1.3	1.8	1.0
1702	D1-35	6980	(25)	62.6	42	4.8	1.5	1.8	1.0
1707	07W60122	7540	(10)	64.2	38	1.8	1.3	1.5	1.0
1708	08W65113	7220	(16)	62.8	39	3.5	1.5	2.0	1.0
	MEAN	7280		63.9	39	3.0	1.3	1.6	1.0
	CV	10.6		1.2	3.8	44.3	51.8	35.0	17.2
	LSD (.05)	1080		1.5	3	1.9	ns	0.8	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

FRESNO BARLEY VARIETY TRIAL

Entry	Name	Yield (lb/acre)	Plant Ht (in)	Lodging Harvest	Shatter	Stripe Rust 5/3/2011	Leaf Rust 5/3/2011
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CULTIVARS

603	UC 603	5360	(25)	38	1.5	1.0	1.3	1.0
816	MAX	5920	(21)	35	4.5	1.3	5.5	1.0
933	UC 933	6480	(16)	44	2.8	1.0	1.0	1.0
951	MELTAN	5040	(27)	35	3.8	1.0	1.3	1.0
969	UC 969	5030	(28)	44	1.0	1.0	1.0	1.0
1047	ISHI	6950	(4)	39	2.0	1.0	1.3	1.0
1085	COMMANDER	4090	(29)	35	4.8	1.0	6.0	3.5
1134	TAMALPAIS	5610	(23)	34	2.5	1.0	1.0	1.0

ADVANCED LINES

1231	UCD 08YP 111	6950	(3)	44	1.0	1.0	1.3	1.0
1232	UCD 08YP 301	5990	(19)	44	2.0	1.0	1.0	1.0
1248	UCD B99	6690	(12)	37	1.5	1.0	1.0	1.0
1249	UCD B110	6770	(8)	41	1.5	1.0	1.5	1.0
1252	UCD B156	6780	(7)	41	1.3	1.3	1.3	1.0
1254	UCD C284	6450	(17)	43	1.8	1.0	1.5	1.0

1255	UCD B369	6750	(10)	41	1.5	1.0	1.8	1.0
1256	UCD B398	6560	(14)	39	3.0	1.0	1.0	1.0
1257	UCD B47	5990	(20)	43	2.3	1.0	3.0	1.0
1258	UCD A34	6520	(15)	40	1.8	1.0	2.3	1.0
1259	UCD B366	6880	(6)	43	1.3	1.0	1.5	1.0
1260	UCD B372	6640	(13)	43	2.8	1.0	1.5	1.0
1261	UCD A237	6950	(2)	42	1.0	1.0	1.5	1.0
1263	UCD C43	6900	(5)	41	2.0	1.0	1.0	1.0
1266	UCD C51	6700	(11)	40	2.5	1.0	1.0	1.0
1283	UCD 1283	5800	(22)	40	1.8	1.0	1.8	1.0
1284	UCD 1284	6760	(9)	39	2.5	1.0	1.8	1.0
1285	UCD 1285	6060	(18)	41	1.3	1.0	1.0	1.0
1286	UCD 1286	7000	(1)	41	3.0	1.0	2.5	1.0
1287	BA4513	5190	(26)	42	2.8	1.3	2.5	1.0
1288	BA1129A	5470	(24)	36	4.8	1.3	2.8	1.0
MEAN		6220		40	2.3	1.0	1.8	1.1
CV		6.9		4.5	46.6	17.0	33.9	32.7
LSD (.05)		600		4	1.5	ns	0.9	0.5

Entry	Name	BYDV 5/3/2011	Net Blotch 5/3/2011	Scald 5/3/2011	Powdery Mildew 5/3/2011
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CULTIVARS

603	UC 603	1.0	1.5	1.0	1.0
816	MAX	1.0	3.3	2.0	1.0
933	UC 933	1.0	1.0	1.0	1.0
951	MELTAN	2.5	1.3	1.3	1.0
969	UC 969	1.0	1.0	1.0	1.0
1047	ISHI	1.0	1.0	1.0	1.0
1085	COMMANDER	1.3	3.5	2.0	2.8
1134	TAMALPAIS	1.0	1.0	1.0	1.0

ADVANCED LINES

1231	UCD 08YP 111	1.0	1.0	1.0	1.0
1232	UCD 08YP 301	1.0	1.0	1.0	1.0
1248	UCD B99	1.0	1.0	1.0	1.0
1249	UCD B110	1.0	1.3	1.0	1.0
1252	UCD B156	1.0	1.0	1.0	1.0
1254	UCD C284	1.0	1.8	1.8	1.0
1255	UCD B369	1.0	2.5	1.0	1.0
1256	UCD B398	1.0	1.0	1.0	1.0
1257	UCD B47	1.0	3.3	1.0	1.0
1258	UCD A34	1.0	1.5	1.0	1.0
1259	UCD B366	1.0	2.3	1.8	1.0
1260	UCD B372	1.0	1.0	1.0	1.0
1261	UCD A237	1.0	1.0	1.0	1.0
1263	UCD C43	1.0	1.0	1.0	1.0
1266	UCD C51	1.0	1.0	1.0	1.0
1283	UCD 1283	1.3	3.0	1.0	1.0
1284	UCD 1284	1.0	1.8	1.0	1.0
1285	UCD 1285	1.0	1.0	1.0	1.0
1286	UCD 1286	1.0	1.8	1.3	1.0

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%.

BYDV ratings (see scale above) were based

1287	BA4513	1.0	1.8	3.0	4.0
1288	BA1129A	1.0	1.5	2.3	1.5
	MEAN	1.1	1.6	1.3	1.2
	CV	15.9	31.1	64.4	27.9
	LSD (.05)	0.2	0.7	ns	0.5

TULARE RAINFED BARLEY VARIETY TRIAL

Entry	Name	Yield (lb/acre)	Plant Ht (in)	Lodging Harvest	Scald
					5/2/2011
CULTIVARS					
603	UC 603	4700	(26)	39	1.0
816	MAX	4910	(25)	31	1.0
933	UC 933	5760	(14)	39	1.5
951	MELTAN	5270	(22)	34	1.0
969	UC 969	5470	(19)	44	1.0
1047	ISHI	5970	(7)	39	1.5
1085	COMMANDER	5850	(12)	36	1.0
1134	TAMALPAIS	5320	(21)	37	1.0
ADVANCED LINES					
1231	UCD 08YP 111	5910	(9)	42	1.0
1232	UCD 08YP 301	5390	(20)	38	1.0
1248	UCD B99	5700	(15)	35	1.0
1249	UCD B110	5770	(13)	39	1.0
1252	UCD B156	6100	(2)	42	1.0
1254	UCD C284	5940	(8)	43	1.0
1255	UCD B369	5480	(18)	41	1.0
1256	UCD B398	5980	(6)	38	1.0
1257	UCD B47	5490	(17)	38	1.0
1258	UCD A34	5890	(10)	41	1.0
1259	UCD B366	6040	(4)	43	1.0
1260	UCD B372	6010	(5)	44	1.3
1261	UCD A237	6040	(3)	41	1.3
1263	UCD C43	4350	(27)	38	1.0
1266	UCD C51	5170	(23)	38	1.3
1283	UCD 1283	5880	(11)	42	1.0
1284	UCD 1284	6480	(1)	39	1.0
1287	BA4513	5020	(24)	38	1.0
1288	BA1129A	5510	(16)	35	1.0
	MEAN	5610		39	1.1
	CV	8.9		5.8	25.6
	LSD (.05)	700		5	ns
					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.

TULARE RAINFED COMMON WHEAT AND TRITICALE VARIETY TRIAL

Entry	Name	Yield (lb/acre)	Test Wt (lb/bu)	Plant Ht (in)	Stripe Rust
5/2/2011					
CULTIVARS					
20	ANZA	5090	(24)	62.6	39
112	YECORA ROJO	5200	(20)	63.1	34
474	DIRKWIN	3580	(37)	57.8	40
788	EXPRESS	5220	(17)	62.3	40
1340	MIKA	4910	(26)	60.0	45
1361	CLEAR WHITE	5190	(21)	62.5	39
1419	PATWIN	5220	(19)	60.5	36
1424	JOAQUIN	5500	(11)	61.9	39
1478	CAL ROJO	4810	(28)	61.7	35
1495	LASSIK	5320	(15)	61.7	37
1500	EXPRESSO	4650	(31)	63.1	40
1521	REDWING	5550	(10)	60.8	36
1522	BLANCA ROYALE	5620	(6)	61.6	38
1523	BLANCA FUERTE	5190	(22)	64.4	36
1548	WB-CRISTALLO	5580	(8)	63.2	38
1590	ULTRA	5840	(4)	63.5	36
1605	WB-PALOMA	5950	(3)	63.5	38
1650	WB-ROCKLAND	4520	(34)	63.8	36
ADVANCED LINES					
1657	BLANCA GRANDE 515	5360	(12)	64.4	38
1667	NEW DIRKWIN	4110	(35)	58.0	40
1679	CLEAR WHITE 515HP2	4870	(27)	62.6	40
1680	PATWIN 515	5110	(23)	61.3	34
1681	PATWIN 5	4950	(25)	61.8	34
1682	KERN 515HP2NS	5350	(13)	62.0	34
1683	UC 1683	5560	(9)	60.1	39
1684	CABR3509W	6090	(2)	62.8	39
1685	BR5874	3900	(36)	58.2	38
1686	08SB100	4550	(33)	64.3	38
1687	06SB100-B	5220	(18)	62.2	39
1688	08SB0658-B	5730	(5)	61.2	37
1699	W5-46ML	4650	(32)	59.2	47
1700	W-14AL	5590	(7)	60.0	44
1703	05W90192	5340	(14)	62.8	36
TRITICALE					
3097	TRICAL BRAND 105	4770	(29)	57.7	47
3156	TRICAL BRAND 118	6130	(1)	58.4	41
3168	05T14084	4690	(30)	57.4	37
3169	CAMELOT	5260	(16)	57.7	42
	MEAN	5140		61.4	38
	CV	11.1		1.2	2.7
	LSD (.05)	800		1.5	2
					0.8

UC REGIONAL TRIALS SUMMARY

Jackson, Wright, Dubcovsky, Banuelos

ENTRY	YIELD						
	2009	2010			2011		
	Fresno	Fresno	Kings	Tulare	Fresno	Kings	Tulare
Joaquin	6995	7040	9080	2850	6210	6560	5500
Cal Rojo	6796	8050	8780	2960	7290	8620	4810
Yecora Rojo	5480	3570	3990	2100	3710	5490	5200
Blanca Royale	6914	8040	8990	2780	7120	7660	5620
Ultra	-	-	-	-	7550	7330	5840
Blanca Fuerte	7076	8240	9030	2770	7390	7430	5190
Redwing	7401	7790	8610	2320	7740	8090	5550
Patwin	6434	-	-	-	7130	7870	5220
Expresso	6449	6270	7850	2590	6210	7930	4650
Summit 515	-	-	-	-	7380	8210	-
Blanca Grande 515	-	-	-	-	6150	7550	5360

ENTRY	STRIPE RUST EVALUATION SUMMARIES					
	FRESNO		KINGS		TULARE	
	2010	2011	2010	2011	2010	2011
Joaquin	1.3	7.5	3.3	6.8	1.0	7.3

Redwing	1.0	1.0	1.0	1.8	1.0	1.8
Blanca Grande 515	---	1.0	---	1.0	---	1.0
Cal Rojo	1.0	1.0	1.0	1.0	1.0	1.0
Yecora Rojo	8.0	8.0	8.0	7.8	4.5	7.3
Blanca Royale	1.0	1.0	1.0	1.0	1.0	1.0
Blanca Fuerte	1.0	1.0	1.0	1.0	1.0	1.0
Summit 515	---	1.0	---	1.0	---	---
Expresso	1.0	1.0	1.0	2.0	1.0	1.0
Anza	5.8	6.8	4.0	4.0	3.3	5.0
Express	3.8	3.8	4.0	2.0	1.0	1.3
Christallo	1.0	2.0	1.0	1.0	1.0	1.5
Lariat	1.0	---	1.0	---	1.0	---
Paloma	1.0	4.3	1.0	3.0	1.0	4.5

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

Small Grain Silage Variety Trial 2011 – Tulare County

S. Wright, L. Banuelos, N. Silva del Rio, C. Collar, Kerista Hernandez, Hailey Stambach

The study was conducted in Tulare County, planted on November 12, 2010 with a Krause 20 foot at a seed rate of 120 pounds per acre. The soil temperature was 54°F, and the outside temperature was 60°F. The harvested plot sizes were 18 feet by 1,230 feet with four replications, and were harvested on May 23, 2011 by a CLAAS Jaguar w/ Disc 520 Contour with a wind factor of 0-2 miles per hour. All varieties were double cut to account for the lodging that occurred. Under the conditions of this study the triticale yielded highest and had the highest TDN. There is no statistical difference between treatments followed by the same letter. Lodging was a significant problem that affected yields even though the varieties were double cut.

Variety	Type	Harvest % H ₂ O	Tons/Acre 70% H ₂ O	Height (in)	Lodging %	TDN	Protein (DM %)	ADF (DM %)	NDF (DM %)	Ash (DM %)
Tricale 158 EP	Triticale	70.8	30.0 A	45.1	9	61.4 AB	10.0 D	31.3 ABC	48.2 ABC	9.3 EF
Tricale 115	Triticale	69.0	26.0 B	43.3	9	63.2 A	9.9 D	28.7 C	45.3 C	8.7 F
Tricale 118	Triticale	67.9	25.9 BC	45.0	66	61.1 ABC	10.2 D	31.5 ABC	48.9 ABC	8.9 EF
Pacheco	Triticale	66.5	25.9 BC	41.6	47	60.6 ABC	10.0 D	31.1 ABC	48.2 ABC	10.0 E
90192	Red Wheat	64.6	23.0 CD	36.6	17	56.1 DE	10.8 BCD	33.4 AB	49.0 ABC	13.8 A
Redwing	Hard Red Wheat	61.7	21.5 D	36.7	78	59.0 BCD	12.6 A	30.5 BC	47.1 BC	11.6 D
PR1404	Red Wheat	67.2	20.8 D	41.5	48	56.7 DE	10.4 CD	33.7 AB	50.0 AB	12.4 BCD
Summit 515	Red Wheat	64.4	20.6 D	37.0	75	56.3 DE	10.9 BCD	34.8 A	51.7 A	12.0 BCD
Ultra	Hard Red Wheat	66.1	20.4 D	35.3	61	56.2 DE	11.6 ABC	33.7 AB	49.8 AB	13.0 AB
Joaquin	Hard Red Wheat	61.5	20.3 D	36.5	65	56.9 DE	12.2 A	32.7 AB	48.8 ABC	12.8 ABC
Blanca Grande 515	Hard White Wheat	62.5	20.1 D	37.5	69	55.1 E	11.7 AB	34.3 A	50.5 AB	13.8 A
Cleda	Awnless Wheat	67.9	20.0 D	42.0	45	58.0 CDE	10.8 BCD	32.8 AB	49.3 ABC	11.8 CD
LSD .05		2.70	2.99			3.16	1.24	3.79	4.40	1.11
% CV		3.15	9.03			3.76	7.87	8.12	6.25	6.34

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Small Grain News

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Small Grain Performance Trials in
Kings, Fresno, and Tulare Counties

Steve Wright, Farm Advisor

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