

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. 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>.

2012 started off with almost no rain, resulting in poor yields in the dryland regions and requiring most of the small grains to be irrigated up in the irrigated wheat growing regions. Those fields not being irrigated up with sprinklers often ended up with poor, non-uniform stands. In many fields, weeds (especially grasses) caused severe competition to slow emerging small grains. This also created less than optimum conditions for good root growth. Cool weather in April and early May delayed crop development and silage harvest by about 7-10 days. Warm weather followed, causing a lot of silage to be harvested on the dry side. Although there was little rain, temperature conditions were ideal for wheat stripe rust on some varieties. There were large acreages planted to susceptible varieties. Several fields were treated 1 to 2 times with fungicides.

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:

Highly Susceptible: Yecora Rojo, Dirkwin, Joaquin, Mika, Bonus, Brooks, Anza, Blanca Grande

Susceptible: WB-Paloma, Pacheco (T), Summit

Moderately Susceptible: Redwing, 1404 (BW), Kronos (D), Duraking (D), Clear White, WB-Cristallo

Moderately resistant: Trical 118 (T), Westmore (D), Ultra, Camelot (T), Crown (D), Platinum (D), Topper (D), Blanca Fuerte, Volante (D), Trical 105 (T), Desert King (D)

Resistant: Cal Rojo, Blanca Grande 515, Summit 515, Fortissimo (D), Lariat, Lassik, Patwin, Blanca Royale, WB-Rockland,

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

2012 California Wheat Variety Survey California Wheat Commission

At approximately 740,000 acres, total estimated wheat plantings for the 2012 harvest year are very nearly the same as last year's estimated plantings. Durum wheat varieties showed the largest percentage increase in planted acres compared to other classes of wheat; however, varieties planted to red and white wheat still accounted for over 80% of the total acreage planted. San Joaquin Valley farmers grow over 60% of the total wheat in the State. According to USDA statistics averaged over the last ten years, almost 45% of non-Durum wheat (38% of the total crop) in California is used for forage, hay, silage and other non-grain purposes.

CALIFORNIA'S RED AND WHITE WHEATS:

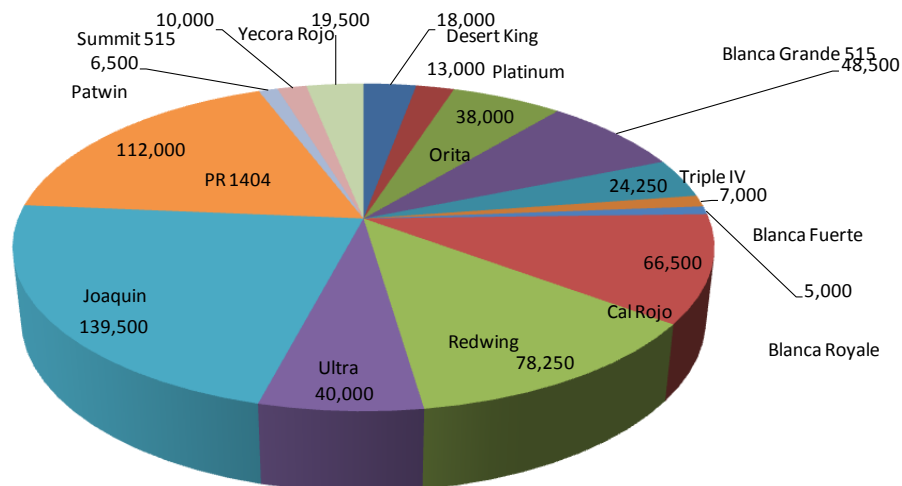
Hard red wheat remains the most prevalent wheat class grown in the state, with over 65% of the state's planted acreage, and accounting for over 80% of the common wheat planted this year. PR1404, predominately grown for non-grain uses, was the top red variety planted, followed by Joaquin, Redwing, and Cal Rojo. There was 20% less Hard White wheat acreage (67,000 acres) planted than last year. Blanca Grande 515 was the top Hard White variety planted. Two-thirds of the total Hard White acreage was planted in the San Joaquin Valley. Spring wheat planting in far Northern California has not started yet, but soft white plantings are estimated to be similar to last year.

DURUM:

The 27% increase in Durum plantings was a result of increased plantings in both Southern California and the San Joaquin Valley. Orita, Desert King, and Havasu were the top varieties in Southern California, while Volante was the top planted variety in the San Joaquin Valley.

CA Wheat Estimates - 2012

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



2012 Kings Common Wheat Trial

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

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture

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.

2012 Kings Durum Wheat Trial

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

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

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

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

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.

2012 Fresno Common Wheat Trial

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

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

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

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.

2012 Fresno Durum Wheat Trial

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

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

Numbers in parentheses indicate relative rank in column.

Protein is expressed at 12% moisture.

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

2012 Fresno Barley Trial

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

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

ENTRY	UC REGIONAL TRIAL SUMMARIES							
	FRESNO			KINGS			TULARE	
	2010	2011	2012	2010	2011	2012	2010	2011
Joaquin	7040	6210	5120	9080	6560	6200	2850	5500
Redwing	7790	7740	4760	8610	8090	---	2320	5550
Blanca Grande 515	---	6150	5160	---	7550	6400	---	5360
Cal Rojo	8050	7290	4490	8780	8620	---	2960	4810
Yecora Rojo	3570	3710	---	3990	5490	---	2100	5200
Blanca Royale	8040	7120	5290	8990	7660	6500	2780	5620
Blanca Fuerte	8240	7390	5470	9030	7430	6800	2770	5190
Summit 515	---	7380	---	---	8210	---	---	---
Espresso	6270	6210	---	7850	7930	---	2590	4650
Patwin	---	7130	---	---	7870	6670	---	5220
Ultra	---	7550	---	---	7330	---	---	5840

ENTRY	STRIPE RUST EVALUATION SUMMARIES							
	FRESNO			KINGS			TULARE	
	2010	2011	2012	2010	2011	2012	2010	2011
Joaquin	1.3	7.5	7.5	3.3	6.8	7.5	1.0	7.3
Redwing	1.0	1.0	1.8	1.0	1.8	3.5	1.0	1.8
Blanca Grande 515	---	1.0	1.0	---	1.0	1.0	---	1.0
Cal Rojo	1.0	1.0	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	1.0	1.0
Blanca Fuerte	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Summit 515	---	1.0	---	---	1.0	---	---	---
Espresso	1.0	1.0	---	1.0	2.0	---	1.0	1.0
Anza	5.8	6.8	4.8	4.0	4.0	5.0	3.3	5.0
Express	3.8	3.8	1.0	4.0	2.0	1.0	1.0	1.3
Christallo	1.0	2.0	2.0	1.0	1.0	2.0	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 triticales 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/A 70% H ₂ O	Height (in)	Lodging %	TDN	Protein (DM %)	ADF (DM %)	NDF (DM %)	Ash (DM %)
Tricale 158 EP	T	70.8	30.0 A	45.1	9	61.4	10.0	31.3	48.2	9.3
Tricale 115	T	69.0	26.0 B	43.3	9	63.2	9.9	28.7	45.3	8.7
Tricale 118	T	67.9	25.9 BC	45.0	66	61.1	10.2	31.5	48.9	8.9
Pacheco	T	66.5	25.9 BC	41.6	47	60.6	10.0	31.1	48.2	10.0
90192	RW	64.6	23.0 CD	36.6	17	56.1	10.8	33.4	49.0	13.8
Redwing	HRW	61.7	21.5 D	36.7	78	59.0	12.6	30.5	47.1	11.6
PR1404	RW	67.2	20.8 D	41.5	48	56.7	10.4	33.7	50.0	12.4
Summit 515	RW	64.4	20.6 D	37.0	75	56.3	10.9	34.8	51.7	12.0
Ultra	HRW	66.1	20.4 D	35.3	61	56.2	11.6	33.7	49.8	13.0
Joaquin	HRW	61.5	20.3 D	36.5	65	56.9	12.2	32.7	48.8	12.8
Blanca Grande 515	HWW	62.5	20.1 D	37.5	69	55.1	11.7	34.3	50.5	13.8
Cleda	BW	67.9	20.0 D	42.0	45	58.0	10.8	32.8	49.3	11.8
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

* T = Triticale, RW = Red Wheat, HRW = Hard Red Wheat, HWW = Hard White Wheat, BW = Beardless Wheat

Small Grain Silage Variety Trial 2012 – Tulare County

S. Wright, L. Banuelos, N. Silva del Rio, C. Collar, S. Rios, K. Wilson, W. Martinez, T. Avila

This trial was conducted at the Milky Way Dairy in Visalia, California. The varieties were planted on November 15, 2011 using a 20 ft Kraus planter at a seeding rate of 135 lbs/A of wheat and 120 lbs/A of triticale. The plots were 20 feet by 1100 feet with four replications. Tons/A results varied from 29.0 to 20.4. Lodging was at a minimum with most varieties. Heights varied from 47.5 in to 39.3. Treatments were harvested much dryer than desired as first the crops were late while weather was cool then turned hot and was difficult to get everything chopped in time.

Variety	Type	Harvest % H ₂ O	Tons/A 70% H ₂ O	Height (in)	Lodging %	TDN
Pacheco	Trit	55.13	29.0	47.5	0	54.7
Camelot	Trit	57.32	28.2	45.5	0	57.6
Redwing	HRW	45.92	26.8	39.3	0	57.0
Summit 515	RW	50.06	26.7	41.5	0	55.3
Tricale 158 EP	Trit	60.66	25.5	42.5	0	58.3
Patwin	HRW	56.68	24.8	41.0	1	56.0
Joaquin	RW	53.56	24.5	44.3	5	54.5
Tricale 115	Trit	56.32	24.0	43.3	0	58.1
PR 1404	HRW	57.94	23.9	42.8	22	58.0
Patron	HRW	50.25	23.9	47.0	1	56.3
Ultra	HRW	54.13	23.7	39.0	0	56.3
Bolt	Trit	59.65	23.5	52.7	49	57.0
Cal Rojo	HRW	49.92	22.2	39.3	0	56.4
90314	HRW	50.43	20.5	42.8	0	56.1

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Kings, Fresno, and Tulare Counties

Steve Wright, Farm Advisor

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