



# Small Grain News



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## Kings and Tulare Small Grain Variety Performance Trials

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The 2007 California wheat crop was 640,000 acres including 88,000 acres of Durum wheat. Triticale for silage was approximately 100,000 acres. The fall planted wheat acreage was dominated by formally stripe rust-resistant varieties Blanca Grande, a hard white wheat (124,000 acres and 23.9%), PR 1404, an awnless red wheat (88,500 acres and 17.0%), Summit (79,000 acres and 15.3%), Cal Rojo 49,600 acres. Other varieties included Yecora Rojo an old hard red (24,000 acres), Plata a hard white (12,000 acres), and Joaquin (10,000 acres). Durum acreage was dominated by Kronos, Platinum, Orita, Havasu, and Desert King in that order.

Small grain variety tests were conducted at multiple locations throughout California, coordinated by Extension Specialist Lee Jackson. The results from Kings and Tulare Counties small plot trials are shown on the following pages. The regional wheat, barley and triticale trials in Kings County were conducted at McCarthy Farms near Corcoran. The dryland wheat and barley trials were conducted at Changala Farm near Ducor. 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 2007 season was dry and warm in the spring resulting in a high yielding crop with low disease pressure from stripe rust, septoria tritici, and leaf rusts. Some areas were hurt by early

January frosts, particularly when frost followed an Osprey herbicide application.

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. 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.

Stripe Rust resistance based on observations from the Univ.of Calif. statewide variety tests:

**Susceptible:** Dirkwin, Bonus, Brooks, Cavalier, Yecora Rojo, Plata, Summit, Blanca Grande, Anza, Express, Solano, Kronos, Mohawk,

**Moderately Susceptible:** Clear White, Trical 96

**Moderately Resistant:** Joaquin, Dash 12, Trical 116, Trical 98, Triple IV, Platinum

**Resistant:** Cal Rojo, PR 1404, Trical 105, Trical 118, Patwin, Espresso, Blanca Fuerte, Blanca Royale, Ultra, Fortissimo (Expt. RSI 64)



# California Wheat Variety Survey--2007

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VARIETIES		SACRAMENTO VALLEY	SAN JOAQUIN VALLEY	COAST	SOUTHERN CALIFORNIA	SIERRA AND NO. CALIF.	VARIETY TOTALS	2006 TOTALS
<b>WHITE VARIETIES</b>								
<b>Hard White Wheat</b>								
Blanca Fuerte	Acres		4,000				4,000	N/A
(PVP Pending)	Percent*		0.8%				0.8%	
Blanca Grande (PVP)	Acres	23,000	100,000	1,200			124,200	92,300
	Percent*	4.4%	19.2%	0.2%			23.9%	21.5%
Plata (PVP)	Acres		12,000				12,000	26,000
	Percent*		2.3%				2.3%	6.0%
<b>Soft White Wheat</b>								
Alpowa	Acres					15,000	15,000	9,200
	Percent *					2.9%	2.9%	2.1%
Ramona	Acres		3,500				3,500	2,600
	Percent*		0.7%				0.7%	0.6%
Stephens	Acres					3,000	3,000	3,000
	Percent*					0.6%	0.6%	0.7%
Twin	Acres					5,000	5,000	3,500
	Percent*					1.0%	1.0%	0.8%
Yamhill	Acres					8,000	8,000	8,550
	Percent*					1.5%	1.5%	2.0%
Other/Unknown	Acres	400	7,000	600		1,000	9,000	9,750
White	Percent*	0.1%	1.3%	0.1%		0.2%	1.7%	2.3%
<b>RED VARIETIES</b>								
Cal Rojo (PVP Pending)	Acres	28,600	20,000	400		600	49,600	N/A
(U.S. Patent Pending)	Percent*	5.5%	3.8%	0.1%		0.1%	9.5%	
Dash 12 (PVP)	Acres	8,500	1,000				9,500	4,000
	Percent*	1.6%	0.2%				1.8%	0.9%
Espresso	Acres	4,300	1,000				5,300	N/A
	Percent*	0.8%	0.2%				1.0%	
Joaquin (PVP)	Acres		10,000				10,000	N/A
	Percent*		1.9%				1.9%	
PR 1404 (PVP)	Acres	15,000	73,000	500			88,500	31,330
	Percent*	2.9%	14.0%	0.1%			17.0%	7.3%
Solano (PVP)	Acres	12,000					12,000	2,800
	Percent*	2.3%					2.3%	0.7%
Summit (PVP)	Acres	40,700	38,000	600			79,300	142,300
	Percent*	7.8%	7.3%	0.1%			15.3%	33.1%
Triple IV (PVP)	Acres		15,000	800			15,800	4,940
	Percent*		2.9%	0.2%			3.0%	1.1%
Ultra (PVP pending)	Acres		5,000				5,000	N/A
	Percent*		1.0%				1.0%	
Yecora Rojo	Acres		12,000		3,000	9,000	24,000	45,050
	Percent*		2.3%		0.6%	1.7%	4.6%	10.5%
Other/Unknown	Acres	7,000	25,000	2,000	1,900	1,400	37,300	44,980
Red	Percent*	1.3%	4.8%	0.4%	0.4%	0.3%	7.2%	10.5%
<b>TOTAL (ALL WHEAT OTHER THAN DURUM)</b>		<b>139,500</b>	<b>326,500</b>	<b>6,100</b>	<b>4,900</b>	<b>43,000</b>	<b>520,000</b>	<b>430,300</b>
		26.8%	62.8%	1.2%	0.9%	8.3%	100.0%	100.0%

\* Percent of "All wheat other than Durum" (520,000 acres). (PVP): These varieties are protected under the Plant Variety Protection Act.

		SACRAMENTO VALLEY	SAN JOAQUIN VALLEY	COAST	SOUTHERN CALIFORNIA	SIERRA AND NO. CALIF.	VARIETY TOTALS	2006 TOTALS
<b>DURUM VARIETIES</b>								
Crown (PVP)	Acres		1,500				1,500	5,000
	Percent*		1.7%				1.7%	7.7%
Desert King (PVP)	Acres				5,000		5,000	N/A
	Percent*				5.7%		5.7%	
Havasu (PVP)	Acres				6,300		6,300	1,800
	Percent*				7.2%		7.2%	2.8%
Kronos (PVP)	Acres		1,500		22,000		23,500	15,000
	Percent*		1.7%		25.0%		26.7%	23.1%
Mohawk (PVP)	Acres				700		700	7,250
	Percent*				0.8%		0.8%	11.2%
Orita (PVP)	Acres				16,000		16,000	8,000
	Percent*				18.2%		18.2%	12.3%
Platinum (PVP)	Acres		21,000				21,000	10,000
	Percent*		23.9%				23.9%	15.4%
RSI 64 (PVP Pending)	Acres		4,500				4,500	N/A
	Percent*		5.1%				5.1%	
Other & Unknown	Acres	1,500	5,500		2,500		9,500	17,950
Durum	Percent*	1.7%	6.3%		2.8%		10.8%	27.6%
<b>ALL DURUM</b>	Acres	1,500	34,000		52,500		88,000	65,000
<b>WHEAT</b>	Percent*	1.7%	38.6%		59.7%		100.0%	100.0%
<b>ALL WHEAT</b>	Acres	141,000	360,500	6,100	57,400	43,000	608,000	495,300
	Percent	23.2%	59.3%	1.0%	9.4%	7.1%	100.0%	100.0%

\* Percent of Total Durum (88,000 acres) (PVP): These varieties are protected under the Plant Variety Protection Act.

## 2007 California Wheat Variety Survey

Overall 2007 wheat plantings were 23% higher than 2006. Total estimated planted acreage is estimated at 608,000 acres for California, versus 495,300 acres last year. This year saw the emergence of several new varieties across all classes of wheat grown in California. White, red, and durum wheat classes all showed increased plantings at levels of 19%, 22%, and 35%, respectively. Much of this increased planted acreage is attributed to higher wheat prices at planting. However, due to drought, planted acres were greatly reduced in Eastern Riverside County and much of the dryland wheat in the southern Central Valley was lost *after* planting.

### CALIFORNIA'S RED AND WHITE WHEATS:

Hard Red wheat still remains the predominant class of wheat grown in California although the most commonly planted wheat variety, Blanca Grande, is a Hard White wheat variety planted predominately in the San Joaquin Valley. Approximately 24% of all non-durum wheat planted in the state was Blanca Grande. Second largest acreage was planted to PR 1404, a hay/forage red wheat variety. The variety Summit was a close third with approximately 79,000 acres planted.

### DESERT DURUM®:

In the Imperial Valley, Kronos and Orita remain the top planted varieties. Other predominant varieties in Imperial include the newer varieties Desert King and Havasu. In the San Joaquin Valley, the variety Platinum lead the way for the 2nd year in a row with the vast majority of planted acreage (~21,000 acres). Second largest acreage planted in the San Joaquin Valley was the introductory variety RSI 64.

Note: This report reflects wheat that was planted in the fall of 2006/early winter 2007 for harvest in spring/summer of 2007. This survey is an estimate of the state's planted acreage.

# 2007 Wheat Certified Seed Characteristics

2006 Ave. Test Weight

2007 Ave. Test Weight

2006 Ave. Grain Yield

2007 Ave. Grain Yield

2006 Ave. Grain Yield

2007 Ave. Grain Yield

2006 Ave. Test Weight

2007 Ave. Test Weight

Variety	Originator	Release Date	Class	Primary Use	Growing area(0)	Awn	Plant Hts (in)	Straw strength	Maturity	Stripes			Leaf			Septoria			Snr	Sj	Sj	Sj	Sj	Sj	Sj	Sj	Sj	Sj	
										R	S	MR	R	S	MR	R	S	MR											lb/acre
<b>FALL-SOWN SPRING WHEAT</b>																													
Arma	L2	1971	HBS	Milling	1,2,3	Yes	40	Good	Medium-late	R	MR	S	MR	S	MR	6950	6720	6280	4610	6230	6230	63.7	63.3	-	62.0	60.2	60.0	-	62.3
Blanca Puente	RH	2006	HWS	Milling	1,2,3,4	Yes	38	Good	Medium	R	R	MR	MR	-	MR	7380	7110	5880	5660	5610	-	63.9	64.3	-	62.0	62.8	61.4	-	60.8
Blanca Grande	RH	2001	HWS	Milling	1,2,3,4	Yes	30	Fair	Medium-early	R	S	MRS	MR	-	MR	6470	7150	5410	4690	5740	7300	63.8	64.8	-	62.0	61.0	62.6	-	64.0
Blanca Royale	RH	2007	HWS	Milling	1,2,3	Yes	38	Good	Medium-early	R	R	MR	MR	-	MR	6850	7210	5620	5570	5510	-	64.2	62.7	-	60.6	60.6	59.1	-	61.8
Cal Regio	RH	2006	HBS	Milling	1,2,3,4	Yes	37	Excellent	Medium-early	R	R	MR	MRS	-	MR	6860	6380	5620	5010	5470	6710	63.5	61.9	-	50.8	59.7	56.5	-	61.5
Clear White	L2	2006	HBS	Milling	1,2,3,4	Yes	40	Excellent	Medium	MRS	R	S	MRS	-	MR	6240	6340	5340	4730	5190	6940	64.3	62.6	-	61.0	59.2	60.1	-	61.8
Coak 12	WB	2004	HBS	Milling	1,2,3,4	Yes	44	Poor	Medium-late	MR	MRS	MRS	MRS	-	MR	6720	7380	5200	5260	5030	6210	63.6	62.9	-	60.5	62.0	50.7	-	61.0
Espresso	WB	2006	HBS	Milling	1,2,3,4	Yes	42	Fair	Medium-early	R	-	MR	S	-	MR	5830	6650	5180	5550	5130	-	63.5	62.7	-	61.0	62.0	60.0	-	62.5
Espresso	WB	2006	HBS	Milling	2,3,4	Yes	40	Good	Medium-early	MR	MRS	S	S	-	MR	6990	7880	5240	4710	6030	6970	64.3	63.5	-	60.8	57.4	60.3	-	62.5
Lasnik	L2	2007	HBS	Milling	1,2,3,4	Yes	40	Good	Medium-late	R	R	MR	MR	-	MR	6790	6680	5170	5350	4830	5810	63.8	62.6	-	61.5	61.2	59.3	-	61.8
Luzina	WB	2007	SWS	Feorage	1,2	Yes	-	Poor	Medium	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Milva	WVWV	2006	HBS	Milling	1,2,3,4	Yes	46	Poor	Medium-late	R	MR	S	MRS	-	MR	5750	6340	4760	4130	4720	5390	62.0	61.8	-	50.8	57.2	56.1	-	59.8
Min	WSLU	2005	HWS	Feorage	1,2	Yes	52	Good	Medium	MR	-	-	-	-	MR	5600	4940	3050	5830	4060	5440	62.6	61.6	-	57.3	61.8	57.6	-	59.0
Parvin	L2	2006	HWS	Milling	1,2,3,4	Yes	40	Excellent	Medium-late	R	R	MR	S	-	MR	6380	6450	5740	5530	4960	5440	62.1	60.3	-	60.0	61.8	57.6	-	59.0
PR 1404	WB	2004	HBS	Feorage	1,2	No	-	Good	Medium-late	R	R	MR	MRS	-	MR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH 01W20728	RH	2007	HBS	Milling	1,2,3	Yes	38	Good	Medium-early	R	R	MR	MR	-	MR	7130	7420	-	6020	5560	-	62.7	61.5	-	60.2	57.8	-	62.0	
RH 01W20728	RH	2007	HBS	Milling	1,2,3	Yes	38	Good	Medium-early	R	R	MR	MR	-	MR	6630	6050	-	-	-	-	63.8	62.2	-	60.2	57.8	-	62.0	
RH 02W50762R	RH	2007	HBS	Milling	1,2,3,4	Yes	40	Excellent	Medium	R	-	R	MR	-	MR	6630	7020	6230	3800	4080	6150	63.6	62.9	-	54.6	59.4	-	62.0	
Solano	WB	2004	HBS	Milling	1,2,3,4	Yes	40	Good	Medium	R	S	MRS	S	-	MR	6630	7020	6230	3800	4080	6150	63.6	62.9	-	54.6	59.4	-	62.0	
Tupla IV	WB	2005	HBS	Feorage	1,2,3	No	-	Good	Early	MR	MR	-	-	-	MR	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ulla	RH	2006	HBS	Feorage	1,2,3,4	Yes	38	Good	Medium	R	R	S	MRS	-	MR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Victoria Rego	L2	1974	HBS	Milling	2,3,4	Yes	37	Fair	Medium-early	R	S	S	MRS	-	MR	5670	6460	5590	2810	4090	6470	63.3	62.9	-	60.3	55.8	57.7	-	61.8
<b>DURUM WHEAT</b>																													
Chovon	WVWV	1969	D	Semolina	2,4	Yes	38	Good	Medium	MR	R	MRS	S	-	MR	7130	7050	6750	5890	5390	7450	62.9	59.3	-	50.3	60.0	56.3	-	59.8
Dorset King	L2	2005	D	Semolina	2,4	Yes	37	Good	Medium-late	MR	R	-	MR	-	MR	7190	7040	7700	6310	5760	7620	63.1	62.5	-	61.5	64.7	59.0	-	60.5
Dorset King	WVWV	1964	D	Semolina	2,4	Yes	37	Good	Medium	MR	R	MRS	MRS	-	MR	7090	7110	7360	4600	5770	7830	64.9	61.5	-	61.5	62.3	58.2	-	61.0
Fortissimo	RH	2006	D	Semolina	2,4	Yes	36	Good	Medium-late	R	-	R	R	-	MR	7320	6560	7320	5800	5690	7440	63.7	61.3	-	61.3	62.9	59.5	-	61.0
Hariva	WB	2005	D	Semolina	4	Yes	38	-	Medium-early	-	-	-	-	-	-	-	-	-	-	-	7310	-	-	-	-	-	-	-	-
Keroso	AJFJ	1962	D	Semolina	2,4	Yes	37	Poor	Medium-early	R	R	S	S	-	MR	6420	7250	7100	4130	3870	7370	63.6	62.0	-	60.3	62.0	58.7	-	61.3
Michrow	WB	1968	D	Semolina	2,4	Yes	38	Poor	Medium-early	S	R	S	MRS	-	MR	6630	7350	6520	4400	5490	7260	64.3	62.2	-	60.3	61.8	58.0	-	61.3
Orta	WB	2001	D	Semolina	2,4	Yes	38	Good	Medium-late	S	R	R	MR	-	MR	-	-	-	-	-	7580	-	-	-	-	-	-	-	-
Palmarin	WVWV	1969	D	Semolina	2,4	Yes	34	Fair	Medium-early	MR	R	R	MRS	-	MR	7610	7370	7180	5170	5960	7440	63.3	61.4	-	61.5	61.0	59.4	-	61.8
Topper	WVWV	1969	D	Semolina	2,4	Yes	39	Good	Medium-late	S	R	R	MRS	-	MR	6980	7740	7180	7030	6120	7270	64.6	63.1	-	62.0	63.0	60.7	-	61.5
Waterloo	AJFJ	2007	D	Semolina	2,4	Yes	38	Poor	Medium	S	R	-	MRS	-	MR	5900	5930	-	5900	5930	8330	-	-	-	62.9	58.6	-	62.8	

**TABLE 1. 2007 KINGS COMMON WHEAT TEST**

Entry	Name	Yield (lbs/acre)	Test Weight (lbs/bu)	Lodging (harvest)	Stripe Rust
20	ANZA	5000 (37)	62.3	1.0	2.3
112	YECORA ROJO	6640 (14)	62.9	1.0	5.0
788	EXPRESS	6200 (22)	61.9	1.0	1.3
1155	SUMMIT	6100 (24)	60.8	1.0	4.0
1156	BLANCA GRANDE	7130 (4)	64.5	1.0	3.5
1340	MICA	6450 (18)	61.0	1.0	1.0
1341	DASH 12	7080 (5)	62.9	1.0	1.0
1361	CLEAR WHITE	5980 (26)	61.8	1.0	1.0
1392	SOLANO	6890 (8)	61.1	1.0	2.5
1419	PATWIN	6120 (23)	59.2	1.0	1.0
1424	JOAQUIN	7710 (1)	63.6	1.0	1.0
1472	WWW BR6000W	5520 (30)	59.9	1.3	1.0
1478	CAL ROJO	5390 (33)	59.9	1.0	1.0
1489	OTIS	3500 (41)	59.4	1.3	1.0
1500	EXPRESSO	6490 (17)	62.5	1.0	1.0
1523	BLANCA FUERTE	6800 (10)	64.0	1.0	1.0
<b>ADVANCED LINES</b>					
1495	UC 1495 (LASSIK)	6300 (21)	62.3	1.0	1.0
1496	WWW BR5874E	6440 (19)	58.9	1.0	1.0
1498	WWW BR0202W	6720 (12)	63.4	2.0	1.0
1516	APB W02AZ-361	6970 (7)	61.8	1.0	1.0
1521	RSI 01W20728	7490 (2)	61.6	1.0	1.0
1522	RSI 02W50076W	6790 (11)	62.1	1.0	1.0
1547	WB ACS 52607	4950 (39)	62.3	1.0	1.0
1548	WB DA 904-32W	7240 (3)	63.3	1.0	1.0
1549	WB YU 903-223	7060 (6)	63.0	1.0	1.0
1551	UCD 06010/5	6560 (15)	63.0	1.0	1.0
1552	UCD 06010/6	4850 (40)	60.6	1.0	1.0
1553	UCD 06010/7	5200 (35)	62.3	1.0	1.0
1554	UCD 06010/26	5520 (31)	62.7	1.0	1.0
1555	RSI 02W50076R	5240 (34)	60.7	1.0	1.0
1556	WINCAL 14-4	5960 (28)	62.7	1.0	1.0
1557	WINCAL 14-9	5650 (29)	60.8	1.0	1.0
1558	WWW IDBR08811	6400 (20)	60.5	1.0	1.0
1559	APB W04AZ-71	5480 (32)	59.6	1.0	1.0
1560	APB W02AZ-353	5970 (27)	62.5	1.0	1.0
1561	APB W02AZ-365	6660 (13)	63.4	1.0	1.0
1562	APB W04AZ-162	5030 (36)	58.4	1.0	1.0
<b>TRITICALE</b>					
3097	TRICAL BRAND 105	4970 (38)	56.4	1.0	1.0
3156	TRICAL BRAND 118	6830 (9)	58.3	1.0	1.0
3157	TRICAL BRAND 116	6510 (16)	54.6	1.0	1.0
3158	TRICAL BRAND 98	5990 (25)	54.2	1.0	1.0
	MEAN	6140	61.1	1.0	1.3
	CV	6	1.3	23.8	42.4
	LSD (.05)	520	1.6	0.3	0.8

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

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

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

Numbers in parentheses  
indicate relative rank in  
column.

**TABLE 2. 2007 KINGS COUNTY ELITE WHEAT TEST**

Entry	Name	Yield	Test Weight (lbs/bu)	BYD	Stripe Rust
1	Selection from: Milan/Munia	5720 (7)	62.3	2.0	1.0
2	Selection from: OR791432/VEE#3.2//Milan	4450 (25)	60.3	2.5	1.0
3	Selection from: OR791432/VEE#3.2//Milan	5010 (20)	60.7	2.0	1.0
4	Lassik = (Anza Gpc, 2NS, 1 5+10)	6020 (4)	61.6	1.8	1.0
5	UC1041//Madsen/Express	5180 (17)	58.7	3.3	1.0
6	UC1036 Yr5 Lr47	6540 (2)	61.2	1.3	1.0
7	TNMU/6/CEP80111/CEP81165/5/MRNG/4/ YKT406/3/AG/ASN//ATR	4710 (21)	59.6	3.0	1.0
8	Filin/Milan	5130 (18)	62.6	1.8	1.0
9	UC1159/UC1161	5010 (19)	55.2	1.8	1.0
10	UC1160/UC1158	6100 (3)	61.5	2.5	1.0
11	UC1161/UC1108	5730 (6)	60.9	2.5	1.0
12	Blanca Grande	5630 (9)	63.1	1.8	4.8
13	Patwin	5360 (15)	58.9	1.0	1.0
14	Madsen/2*Express	5180 (16)	59.9	1.8	1.0
15	Selection from: Milan	4670 (23)	61.8	1.3	1.0
16	UC1107//IDO377S/UC1107	6730 (1)	63.4	1.0	1.0
17	UC1107//IDO377S/UC1107	5710 (8)	61.3	1.8	2.5
18	UC1107//IDO377S/UC1107	5570 (11)	62.3	1.5	1.0
19	UC1107 5+10, 2NS, Yr15	5520 (12)	61.3	1.3	1.0
20	UC1110 5+10	5930 (5)	58.2	2.5	1.0
21	Weaver//Vee/PJN/3/Milan (no 1RS)	4710 (22)	60.5	2.3	1.0
22	THB//Maya/Nac/3/Rabe/4/Milan	5420 (14)	61.2	2.0	1.0
23	Milan/Munia	4650 (24)	60.9	3.0	1.0
24	UC1154/UC1161	5580 (10)	61.0	2.5	1.0
25	UC1361/UC1296	5450 (13)	62.0	2.0	1.0
	MEAN	5430	60.8	2.0	1.2
	CV	7.6	1.2	36.6	38.3
	LSD (.05)	580	1.5	1.0	0.7

**TABLE 3. 2007 KINGS COUNTY DURUM WHEAT TEST**

Entry	Name	Yield (lbs/ac)	Test Weight (lbs/bu)	Black Point	Plant Height (in)	Lodging (harvest)	BYD
<u>CULTIVARS</u>							
878	DURAKING	7530 (4)	60.7	1.0	37	1.0	1.8
951	KRONOS	7070 (11)	61.9	1.0	37	2.5	2.0
1024	MOHAWK	7110 (10)	61.0	1.0	37	4.0	1.0
1166	CROWN	6520 (18)	57.3	1.0	40	1.0	1.0
1210	PLATINUM	7280 (7)	60.1	1.0	37	1.0	1.3
1211	TOPPER	7780 (2)	61.9	1.0	39	1.0	1.3
1375	DESERT KING	6550 (17)	61.1	1.0	35	1.0	1.3
1429	RSI 64	6830 (14)	61.0	1.0	36	1.0	1.0
1430	RSI 59	6390 (21)	59.9	1.0	37	1.0	1.8
1473	Q-MAX	6040 (24)	56.7	1.0	40	1.0	1.3
1582	MAESTRALE	7410 (6)	63.4	1.0	39	3.0	1.5
1583	SARGOLLA	7620 (3)	63.1	1.0	38	1.5	1.0
1584	SEVEVO	8170 (1)	63.5	1.0	41	3.3	1.3
<u>ADVANCED LINES</u>							
1431	RSI EXP 14	6590 (16)	60.7	1.0	34	1.0	1.3
1467	WB YU803-11	6640 (15)	60.1	1.0	35	1.3	1.0
1503	UC 1503	7160 (9)	63.1	1.0	38	1.5	1.3
1509	WB YU803-1	6880 (13)	63.1	1.0	35	1.0	1.8
1540	WB DA 804-7	7410 (5)	61.4	1.0	38	1.3	1.8
1541	WB DA 804-81	6410 (20)	63.6	1.0	35	1.0	1.3
1563	UCD 06222/30	5860 (25)	61.4	1.0	31	1.3	5.0
1564	UCD 06222/33	5400 (26)	60.1	1.0	32	1.0	3.3
1565	WWW D1636	7030 (12)	62.3	1.0	40	1.8	1.5
1566	APB D01AZ-486	6180 (22)	62.2	1.0	36	1.0	1.3
1567	APB D02AZ-152	6110 (23)	63.0	1.0	38	1.0	2.0
1568	APB D02GE-72	6460 (19)	61.2	1.0	34	1.0	1.5
1581	UCD 06201/1	7200 (8)	62.8	1.0	39	1.0	2.5
	MEAN	6830	61.4	1.0	37	1.4	1.6
	CV	5.8	0.7	-	4.5	48.8	41.3
	LSD (.05)	560	0.9	-	3	1.0	1.0

**TABLE 4. 2007 KINGS COUNTY ELITE DURUM TEST**

Entry	Name	Yield (lbs/ac)	Test Weight (lbs/bu)	BYD
1	UC1113/WB TURBO	4620 (20)	55.2	1.3
2	SEL CORTEZ//KNa1/CORTEZ	4780 (19)	59.6	1.5
3	RASCON_39/TILO	4090 (23)	59.9	1.5
4	POD_11/YAZI_1	5720 (9)	62.8	1.3
5	MCK_2/E90056//PLATA_2	5100 (16)	60.5	1.3
6	SHAG_14/ANADE_1//KITTI_1	3970 (25)	59.4	1.0
7	ALTAR_84/BISU_1//PLATA_2	4910 (18)	61.2	1.3
8	CANELO_8//SORA/2*PLATA_12	6930 (1)	62.5	1.3
9	LAPDY_37/BUSCA_3	6390 (5)	61.9	1.3
10	KRONOS	4210 (22)	58.2	1.3
11	KOFA	4590 (21)	60.1	3.0
12	UC1375 P2	5560 (12)	59.5	1.3
13	UC1375 P1 NORMAL	5970 (8)	59.6	1.3
14	BICHENA/AKAKI_7	5640 (10)	63.1	1.0
15	PATKA_4/THKNEE_9//CABECA_1	4090 (24)	60.5	1.0
16	SN TURK MI83-84 375/NIGRIS 5//TANTLO_1	6350 (6)	60.0	1.3
17	KOFA/UC1113//UC1113	6070 (7)	60.6	1.8
18	KOFA/UC1113//UC1113	6870 (2)	61.8	2.0
19	KOFA/UC1113//UC1113	6520 (4)	61.4	1.3
20	KOFA/UC1113//UC1113	6820 (3)	61.3	1.5
21	KOFA/UC1113//UC1113	5620 (11)	60.9	3.3
22	KOFA/UC1113//UC1113	5280 (14)	60.6	3.3
23	KOFA/UC1113//UC1113	5280 (13)	60.1	2.0
24	KOFA/UC1113//UC1113	4910 (17)	60.5	2.8
25	KOFA/UC1113//UC1113	5220 (15)	59.4	3.3
	MEAN	5420	60.4	1.7
	CV	10.1	1.8	44.2
	LSD (.05)	780	2.2	1.1



**TABLE 5. 2007 KINGS COUNTY BARLEY TEST**

Entry	Name	Yield (lbs/ac)	Test Weight (lbs/bu)	Lodging (harvest)	BYD	Leaf Necrosis	
						3/29	5/15
<b>CULTIVARS</b>							
603	UC 603	4630 (23)	50.3	1.0	1.0	2.5	7.3
933	UC 933	6880 (9)	51.9	2.8	1.0	1.3	2.0
937	UC 937	5630 (20)	51.0	2.0	1.0	1.8	5.0
951	MELTAN	3850 (26)	50.3	1.8	1.3	2.8	2.5
969	UC 969	6390 (12)	52.6	1.5	1.0	1.0	4.3
1047	ISHI	7230 (6)	51.3	1.5	1.0	1.3	1.5
1211	SOLAR	4250 (25)	52.1	1.3	1.0	1.8	6.5
<b>ADVANCED LINES</b>							
1095	23 IBYT 7	7010 (8)	51.8	1.5	1.0	1.8	4.0
1109	UCD C109	7670 (2)	50.4	2.3	1.0	1.0	3.3
1115	UCD C135	7260 (4)	52.0	1.8	1.0	2.8	4.0
1116	UCD C140	7140 (7)	52.0	1.8	1.0	1.8	3.8
1118	UCD C147	7890 (1)	49.7	2.0	1.0	2.0	2.3
1131	UCD YP03-9/16	7230 (5)	50.3	1.3	1.0	1.0	2.5
1132	UCD YP03-8/16	6230 (15)	51.4	1.0	1.0	1.3	3.5
1134	UCD YP03-9/3	5720 (19)	59.8	1.0	1.0	2.8	5.3
1171	T/S//E 11-18	7340 (3)	51.5	1.0	1.0	1.3	2.3
1203	UCD 06-3/52	5510 (21)	52.7	3.5	1.0	1.3	5.5
1204	UCD 06-3/58	4610 (24)	51.6	2.5	1.0	2.3	5.3
1205	UCD 06-3/61	6020 (17)	50.9	2.8	1.0	1.0	3.0
1206	UCD 06-3/65	5140 (22)	51.5	2.0	1.0	1.3	5.3
1207	UCD 06YP-2/303	6400 (11)	49.7	2.3	1.0	2.0	4.0
1208	UCD 06YP-2/341	6230 (14)	48.7	2.5	1.0	1.8	3.8
1209	UCD 06YP-2/349	5950 (18)	47.9	1.8	1.0	1.5	3.5
1210	UCD 06YP-2/338	6370 (13)	49.2	2.5	1.0	1.3	3.0
1212	WWW BA1129B-C	6210 (16)	52.8	1.0	1.0	2.8	6.5
1213	WWW BA2391	6600 (10)	52.5	3.5	1.0	4.0	4.8
	MEAN	6210	51.4	1.9	1.0	1.8	4.0
	CV	8.6	1.5	48.1	9.7	32.6	17.9
	LSD (.05)	750	1.5	1.3	-	0.8	1.0

**TABLE 6. TULARE COUNTY SMALL GRAIN SILAGE TRIAL, Gil Replogle and Milky Way Dairy**

Steve Wright, Carol Collar, Debra Bacon

Varieties	Type	% Lodging at Harvest	% H <sub>2</sub> O at Harvest	Tons/A at 70% H <sub>2</sub> O	
Trical 118	Triticale	0	63.82	28.63	A
Blanca Fuerte	White	0	63.76	28.42	A B
Growers Blend	Blend	--	66.66	28.37	A B C
Summit	Red	0	62.85	27.79	B C
Ultra	Red	0	63.11	27.40	B C D
Joaquin	Red	1	61.92	27.22	B C D E
Cal Rojo	Red	0	60.81	27.16	B C D E
	Durum	1	65.69	26.85	C D E
Trical 116	Triticale	1	65.29	26.39	D E
PR 1404	Beardless	8	63.82	26.04	D E
Trical 98	Triticale	3	66.66	25.21	E
MEAN		1	64.23	27.47	
CV (%)			1.48	3.29	
LSD.05		7.99	1.38	1.42	

**FERTILITY PROGRAM FOR SITE:**

- 10/06: 8 tons manure/ac applied and  
22 gal/ac UN-32 applied pre-planting (1600 gal/72.5 ac)
- 11/17/06: TEST PLOT PLANTED, plot size 18' x 1230' with 3 replications
- 2/02/07: Coron 25-0-0 flown on with herbicide treatments (2.19 pts/ac)
- 2/23/07: 100 lbs/ac Urea flown on before rain (46% N)
- Rest of season: 17.25 gal/ac UN-32 put on in irrigations (1250 gal/72.5 ac)

**IRRIGATION PROGRAM:**

Irrigated up with 4 additional irrigations. Last irrigation on 4/24/07.

**HERBICIDE TREATMENT:**

- 2/02/07: Rhomene Broadleaf (15.80 oz/ac) + Shark EW (0.93 oz/ac)

This was a very high yielding trial. The key to this high yield included lack of stripe rust due to a warm dry spring and good management practices. This included very timely irrigations, especially irrigating up at the optimum time and a late final irrigation to finish the crop. Timely weed control and fertilizer management was also effective. All varieties performed outstanding. Treatments followed by the same letter are not statistically different.

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# Small Grain News

September 2007

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Steve Wright  
Farm Advisor