



Small Grain News



Volume IV, Issue 1

September 2007

Kings and Tulare Small Grain Variety Performance Trials

Steve Wright, Lee Jackson, Lalo Banuelos, Tony Garcia

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: Dirkwinn, 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

Published by: California Wheat Commission, 1240 Commerce Ave. Suite A, Woodland, CA 95776
 Also available on the Web at www.californiawheat.org

VARIETIES		SACRAMENTO VALLEY	SAN JOAQUIN VALLEY	COAST	SOUTHERN CALIFORNIA	SIERRA AND NO. CALIF.	VARIETY TOTALS	2006 TOTALS
WHITE VARIETIES								
Hard White Wheat								
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%
Soft White Wheat								
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%
RED VARIETIES								
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%
TOTAL (ALL WHEAT OTHER THAN DURUM)		139,500	326,500	6,100	4,900	43,000	520,000	430,300
		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
DURUM VARIETIES								
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%
ALL DURUM	Acres	1,500	34,000		52,500		88,000	65,000
WHEAT	Percent*	1.7%	38.6%		59.7%		100.0%	100.0%
ALL WHEAT	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

Variety	Originator	Release Date	Class	Primary Use	Growing area(0)	Awn	Plant Ht (in)	Straw strength	Maturity	2007 Avg. Grain Yield			2006 Avg. Grain Yield			2005 Avg. Grain Yield			Septoria leaf blight	BYD								
										Str	SI	IM	IV	Str	SI	IM	IV	Str			SI	IM	IV					
FALL-SOWN SPRING WHEAT																												
Arma	LC	1971	HRS	Milling	1,2,3	Yes	40	Good	Medium-late	S	MRS	S	MRS	S	MRS	6220	4610	4230	-	6230	63.7	63.3	-	62.3	60.2	60.0	-	62.3
Blanc Floride	RSI	2006	HWS	Milling	1,2,3,4	Yes	38	Good	Medium	R	R	MR	MR	R	MR	5880	5660	5610	-	5880	63.9	64.3	-	62.0	62.8	61.4	-	60.5
Blanc Grande	RSI	2001	HWS	Milling	1,2,3,4	Yes	39	Fair	Medium early	S	S	MRS	MRS	S	MRS	6470	4690	5740	-	7900	63.8	64.8	-	62.0	61.0	62.6	-	64.0
Blanc Royale	RSI	2007	HWS	Milling	1,2,3	Yes	38	Good	Medium early	R	R	MR	MR	R	MR	6850	5870	5510	-	-	64.2	62.7	-	-	60.6	59.1	-	-
Cal Rego	RSI	2006	HRS	Milling	1,2,3,4	Yes	37	Excellent	Medium early	R	R	MR	MRS	R	MR	6860	6380	5470	-	6730	63.5	61.9	-	50.8	59.7	56.5	-	61.5
Clear White	LC	2006	HRS	Milling	1,2,3,4	Yes	40	Excellent	Medium	MRS	R	S	MRS	MRS	R	6730	5190	5190	-	6960	64.3	62.6	-	61.0	59.2	60.1	-	61.8
Club 12	WB	2004	HRS	Milling	1,2,3,4	Yes	44	Poor	Medium-late	MR	MRS	MRS	MRS	MR	MRS	6720	7380	5200	-	6210	63.6	62.9	-	60.5	62.0	59.7	-	61.0
Expreso	WB	2006	HRS	Milling	1,2,3,4	Yes	42	Fair	Medium early	R	-	MR	S	R	-	5830	6650	5130	-	-	63.5	62.7	-	61.0	62.0	60.0	-	-
Isopain	WB	2006	HRS	Milling	2,3,4	Yes	40	Good	Medium early	MR	MRS	S	S	R	-	6990	6380	6030	-	6970	64.3	63.5	-	60.8	57.4	60.3	-	62.5
Lansin	LC	2007	HRS	Milling	1,2,3,4	Yes	40	Good	Medium-late	R	R	MR	MR	R	MR	6790	6680	4830	-	5810	63.8	62.6	-	61.5	61.2	59.3	-	61.8
Luzine	WSLU	2005	HWS	Forage	1,2	Yes	40	Poor	Medium	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Milva	W'W'W	2006	HRS	Milling	1,2,3,4	Yes	46	Poor	Medium-late	R	MR	S	MRS	R	MR	5750	6340	4720	-	5390	62.0	61.8	-	59.8	57.2	56.1	-	59.8
Min	WSLU	2005	HWS	Forage	1,2	Yes	52	Good	Medium	MR	-	-	-	-	-	5600	4940	3050	-	-	62.6	61.6	-	57.3	61.8	57.6	-	59.0
Parvin	LC	2006	HWS	Milling	1,2,3,4	Yes	40	Excellent	Medium-late	R	R	MR	S	R	MR	6380	6450	5740	-	5440	62.1	60.3	-	60.0	60.8	57.6	-	59.0
PR 1404	WB	2004	HRS	Forage	1,2	No	40	Good	Medium-late	R	R	MR	MRS	R	MR	-	-	-	-	-	-	-	-	-	-	-	-	-
RSI 01W20728	RSI	2007	HRS	Milling	1,2,3	Yes	38	Good	Medium early	R	R	MR	MR	R	MR	7150	5420	5560	-	-	62.7	61.5	-	-	60.2	57.8	-	-
RSI 02W50762R	RSI	2007	HRS	Milling	1,2,3	Yes	40	Excellent	Medium	R	-	R	MR	R	MR	6630	6050	6050	-	-	63.8	62.2	-	-	-	-	-	-
Solano	WB	2004	HRS	Milling	1,2,3,4	Yes	40	Good	Medium	S	S	MRS	S	R	MR	6630	5020	6230	-	6150	63.6	62.9	-	61.0	54.6	59.4	-	62.0
Turple IV	WB	2005	HRS	Forage	1,2,3	No	40	Good	Early	MR	MR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulla	RSI	2006	HRS	Forage	1,2,3,4	Yes	38	Good	Medium	R	R	MRS	MR	R	MR	-	-	-	-	-	-	-	-	-	-	-	-	-
Verona Revo	LC	1974	HRS	Milling	2,3,4	Yes	37	Fair	Medium early	S	S	S	MRS	S	S	5670	6460	4060	-	5590	63.3	62.9	-	60.3	55.8	57.7	-	61.8
DURUM WHEAT																												
Chelon	W'W'W	1969	D	Seminole	2,4	Yes	38	Good	Medium	MR	R	MRS	S	R	MR	7130	7050	6750	-	7450	62.9	59.3	-	50.3	60.0	56.3	-	59.8
Dorset King	LC	2005	D	Seminole	2,4	Yes	37	Good	Medium-late	MR	-	-	MR	R	MR	7190	7040	5760	-	7620	63.0	62.5	-	61.5	64.7	59.0	-	60.5
Fordaking	W'W'W	1964	D	Seminole	2,4	Yes	37	Good	Medium	MRS	R	MRS	MRS	R	MR	7090	7710	5770	-	7830	64.9	61.5	-	61.5	62.3	58.2	-	61.0
Fortissimo	RSI	2006	D	Seminole	2,4	Yes	36	Good	Medium-late	R	-	R	R	R	MR	7320	6560	5690	-	7430	63.7	61.3	-	61.3	62.9	59.5	-	61.0
Haruna	WB	2005	D	Seminole	4	Yes	38	-	Medium early	-	-	-	-	-	7460	-	-	-	-	7310	-	-	-	-	-	-	-	-
Keroso	AFB	1962	D	Seminole	2,4	Yes	37	Poor	Medium early	S	R	S	S	R	MR	6420	7230	7100	-	7370	63.6	62.0	-	60.3	62.0	58.7	-	61.3
Michrow	WB	1968	D	Seminole	2,4	Yes	38	Poor	Medium early	S	R	S	MRS	R	MR	6630	7350	5490	-	7260	64.3	62.2	-	60.3	61.8	58.0	-	61.3
Orta	WB	2001	D	Seminole	2,4	Yes	38	Good	Medium-late	S	R	R	MR	R	MR	-	-	-	-	7580	-	-	-	-	-	-	-	61.0
Palmarin	W'W'W	1969	D	Seminole	2,4	Yes	34	Fair	Medium early	MR	R	R	MRS	R	MR	7610	7370	5960	-	7440	63.3	61.4	-	61.5	61.0	59.4	-	61.8
Topper	W'W'W	1969	D	Seminole	2,4	Yes	39	Good	Medium-late	S	R	R	MRS	R	MR	6980	7740	7270	-	7270	64.6	63.1	-	62.0	63.0	60.7	-	61.5
Wainrose	AFB	2007	D	Seminole	2,4	Yes	38	Poor	Medium	S	R	-	MRS	R	MR	5900	5930	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
ADVANCED LINES					
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
TRITICALE					
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	TNMMU/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
CULTIVARS							
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
ADVANCED LINES							
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 ₂ O at Harvest	Tons/A at 70% H ₂ 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.

Small Grain News

September 2007



Steve Wright
Farm Advisor

UC Cooperative Extension
Permit No. 49
680 N. Campus Drive, Suite A
Hanford, CA 93230

Non Profit
U.S. Postage Paid
Hanford, CA 93230