



Small Grain Variety Performance Trials

Steve Wright and Lee Jackson

The 2006 California wheat crop was 495,000 acres including 65,000 acres of Durum wheat. Triticale for silage was approximately 60,000 acres. The fall planted wheat acreage was dominated by formally stripe rust resistant varieties Summit (142,000 acres or 33%) and Blanca Grande, a hard white wheat (92,300 acres or 21.5%). Other varieties included Yecora Rojo, an old hard red at (45,050 acres), Plata, a hard white at (26,000 acres) and PR 1404, an awnless red wheat (31,330 acres). Durum acreage was dominated by Kronos, Platinum, Orita, Mohawk, and Crown 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 south of 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 2006 season was wet and cool, resulting in a late maturing crop with high disease pressure from stripe rust, septoria tritici, and leaf rusts. Some areas were also hurt by February frosts.

Wheat and triticale 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 type to reduce the impacts of weather, disease, harvest schedules, and economics.

- First and foremost, select and plant resistant varieties.
- Secondly, a well-timed fungicide application was shown to reduce the yield loss even in resistant varieties.

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

Highly Susceptible: Dirkwin, Bonus, Brooks, Cavalier, Yecora Rojo, Stander, Plata, Summit Blanca Grande.

Susceptible: Anza, Express, Solano

Moderately Susceptible: Clear White, Trical 96

Moderately Resistant: Joaquin, Dash- 12, Trical 116, Trical 98

Resistant: Trical 105, Trical 118; Cal Rojo, PR 1404, Patwin (tested as 1419), Espresso (1500), Blanca Fuerte (1523, Mica (1340)

2006 WHEAT YIELD SUMMARY, SAN JOAQUIN VALLEY (LBS/ACRE)

Entry	Name	Mean (3 Loc)	Kern	Kings	Madera
<u>CULTIVARS</u>					
20	ANZA	4210 (36)	3380 (34)	4480 (18)	4780 (36)
112	YECORA ROJO	4060 (37)	4480 (18)	4670 (13)	3040 (41)
431	PAVON	3430 (40)	2970 (38)	3680 (36)	3640 (39)
788	EXPRESS	4950 (22)	4290 (23)	4940 (7)	5620 (33)
1155	SUMMIT	4840 (25)	4480 (19)	4350 (23)	5680 (32)
1156	BLANCA GRANDE	5740 (2)	6070 (1)	4860 (9)	6270 (19)
1255	PLATA	5520 (5)	5400 (7)	5210 (2)	5960 (27)
1341	DASH 12	5030 (17)	4060 (26)	4650 (14)	6370 (13)
1361	CLEAR WHITE	5190 (13)	4460 (20)	4770 (11)	6340 (16)
1392	SOLANO	4980 (19)	4610 (14)	4460 (20)	5870 (28)
1419	PATWIN	4960 (20)	4560 (16)	3940 (32)	6360 (14)
1476	TEMPO	5220 (12)	5060 (11)	4860 (10)	5730 (31)
1478	CAL ROJO	5470 (7)	4330 (22)	5000 (6)	7090 (2)
<u>ADVANCED LINES</u>					
1340	MICA	4720 (27)	2940 (39)	4180 (27)	7040 (4)
1423	YU999-158	5390 (10)	5160 (10)	4470 (19)	6540 (7)
1424	JOAQUIN	6030 (1)	5760 (2)	5610 (1)	6740 (5)
1458	PAVON 1RS.1AL	3340 (42)	2740 (41)	3670 (37)	3620 (40)
1459	PAVON 1RS.1BL	3420 (41)	2830 (40)	3540 (39)	3890 (38)
1460	PAVON 1RS.1DL	3650 (38)	2390 (42)	4080 (29)	4480 (37)
1472	WWW BR6000W	4650 (30)	3760 (32)	3770 (34)	6430 (11)
1493	UC 1493	4710 (28)	3990 (28)	4120 (28)	6020 (24)
1494	UC 1494	4610 (31)	4510 (17)	3490 (40)	5820 (30)
1495	UC 1495	4850 (24)	3830 (29)	4050 (30)	6670 (6)
1496	WWW BR5874E	4350 (34)	3800 (31)	2910 (41)	6330 (17)
1497	WWW CHBR1985A	4690 (29)	3350 (35)	4720 (12)	6020 (25)
1498	WWW BR0202W	5110 (16)	4130 (25)	5200 (3)	5990 (26)
1499	WWW BR0318W	4890 (23)	3300 (36)	5120 (4)	6260 (20)
1500	ESPRESSO	5150 (15)	4010 (27)	4380 (21)	7070 (3)
1501	WB DA984-034SSRR	4590 (33)	4350 (21)	4000 (31)	5420 (34)
1502	WB HZ-210	4810 (26)	3800 (30)	4570 (17)	6050 (22)
1514	UC 1514	4220 (35)	3580 (33)	3840 (33)	5230 (35)
1516	APB W02AZ-361	5470 (8)	4900 (12)	5060 (5)	6460 (10)
1517	APB 20-1	3510 (39)	3270 (37)	4340 (25)	2930 (42)
1518	APB W03AZ-146	4950 (21)	4650 (13)	4380 (22)	5840 (29)
1521	RSI 01W20728	5560 (4)	5730 (3)	4600 (16)	6360 (15)
1522	RSI 02W50076	5510 (6)	5560 (5)	4610 (15)	6380 (12)
1523	BLANCA FUERTE	5610 (3)	5450 (6)	4910 (8)	6460 (9)
<u>TRITICALE</u>					
3097	TRICAL BRAND 105	5400 (9)	4160 (24)	4300 (26)	7730 (1)
3143	TRICAL BRAND 96	5160 (14)	5710 (4)	3740 (35)	6040 (23)
3156	TRICAL BRAND 118	5360 (11)	5210 (9)	4340 (24)	6520 (8)
3157	TRICAL BRAND 116	4990 (18)	5240 (8)	3660 (38)	6060 (21)
3158	TRICAL BRAND 98	4600 (32)	4580 (15)	2880 (42)	6330 (18)
	MEAN	4830	4310	4340	5840
	CV	10.3	11.7	11.5	8.5
	LSD (.05)	400	700	700	700

Numbers in parentheses indicate relative rank in column.

2006 WHEAT STRIPE RUST SUMMARY

Entry	Name	Stripe Rust							
		Mean (7 Loc)	Butte	Colusa	UC Davis	Sac-SJ Delta	Madera	Kings	Kern
<u>CULTIVARS</u>									
20	ANZA	3.8 (30)	2.5	2.5	6.5	3.3	5.8	1.5	4.8
112	YECORA ROJO	6.7 (41)	3.0	8.0	8.0	8.0	8.0	3.8	8.0
431	PAVON	5.9 (37)	1.3	6.5	8.0	7.8	7.3	3.3	7.3
788	EXPRESS	5.1 (31)	2.8	7.3	8.0	6.3	5.5	1.0	5.0
1155	SUMMIT	6.4 (40)	3.5	8.0	8.0	8.0	7.0	2.5	7.5
1156	BLANCA GRANDE	5.8 (36)	1.8	8.0	8.0	8.0	6.8	1.0	6.8
1255	PLATA	5.5 (34)	2.3	7.5	8.0	6.5	7.0	1.0	6.3
1341	DASH 12	1.9 (25)	1.0	1.3	3.3	1.8	2.3	1.3	2.8
1361	CLEAR WHITE	2.7 (28)	1.5	1.8	4.0	4.0	3.8	1.0	3.0
1392	SOLANO	5.2 (33)	3.0	8.0	7.5	6.0	5.3	2.0	4.8
1419	PATWIN	1.2 (14)	1.0	1.0	1.5	1.3	1.0	1.0	1.5
1476	TEMPO	5.9 (38)	1.3	8.0	8.0	8.0	7.3	1.5	7.5
1478	CAL ROJO	1.1 (12)	1.0	1.3	1.0	1.5	1.0	1.0	1.0
<u>ADVANCED LINES</u>									
1340	MICA	1.3 (15)	1.0	1.0	1.3	2.0	1.5	1.0	1.3
1423	YU999-158	1.3 (15)	1.0	1.0	1.0	1.0	3.0	1.0	1.0
1424	JOAQUIN	1.6 (21)	1.0	1.0	1.0	1.3	3.8	1.0	2.0
1458	PAVON IRS.1AL	5.5 (35)	1.5	6.3	7.0	6.3	7.3	3.5	7.0
1459	PAVON IRS.1BL	6.0 (39)	2.0	8.0	7.5	6.5	7.0	4.3	7.0
1460	PAVON IRS.1DL	5.1 (32)	1.3	6.5	6.5	6.3	6.0	3.3	6.3
1472	WWW BR6000W	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1493	UC 1493	2.5 (27)	1.0	2.8	3.5	3.0	4.0	1.0	2.3
1494	UC 1494	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1495	UC 1495	1.0 (5)	1.0	1.0	1.0	1.3	1.0	1.0	1.0
1496	WWW BR5874E	1.5 (20)	1.0	1.0	1.5	1.5	3.3	1.0	1.3
1497	WWW CHBR1985A	1.4 (19)	1.5	1.0	1.5	1.8	1.8	1.0	1.0
1498	WWW BR0202W	1.8 (23)	1.0	1.0	3.5	2.5	2.3	1.0	1.0
1499	WWW BR0318W	1.8 (24)	1.0	1.8	2.8	2.3	2.5	1.0	1.3
1500	EXPRESSO	1.1 (13)	1.0	1.0	1.5	1.5	1.0	1.0	1.0
1501	WB DA984-034SSRR	1.0 (5)	1.0	1.0	1.0	1.0	1.0	1.0	1.3
1502	WB HZ-210	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1514	UC 1514	1.0 (5)	1.0	1.3	1.0	1.0	1.0	1.0	1.0
1516	APB W02AZ-361	1.1 (11)	1.3	1.0	1.0	1.0	1.3	1.0	1.0
1517	APB 20-1	6.8 (42)	3.5	8.0	8.0	7.0	8.0	4.8	8.0
1518	APB W03AZ-146	1.3 (15)	1.5	1.0	1.8	1.3	1.5	1.0	1.0
1521	RSI 01W20728	1.0 (1)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1522	RSI 02W50076	1.0 (5)	1.0	1.0	1.3	1.0	1.0	1.0	1.0
1523	BLANCA FUERTE	1.0 (5)	1.0	1.0	1.3	1.0	1.0	1.0	1.0
<u>TRITICALE</u>									
3097	TRICAL BRAND 105	1.0 (5)	1.0	1.3	1.0	1.0	1.0	1.0	1.0
3143	TRICAL BRAND 96	2.9 (29)	1.3	4.5	5.3	3.8	3.0	1.0	1.8
3156	TRICAL BRAND 118	1.3 (15)	1.0	3.0	1.0	1.0	1.0	1.0	1.0
3157	TRICAL BRAND 116	1.9 (25)	1.0	2.5	4.5	1.3	2.3	1.0	1.0
3158	TRICAL BRAND 98	1.7 (22)	1.0	2.8	2.5	2.0	1.5	1.0	1.0
	MEAN	2.7	1.4	3.2	3.6	3.2	3.3	1.5	2.9
	CV	23.2	43.8	23.3	16.8	20.6	18.8	39.2	19.9
	LSD (.05)	0.3	0.9	1.0	0.9	0.9	0.9	0.8	0.8

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

2005-2006 WHEAT YIELD SUMMARY, SAN JOAQUIN VALLEY (LBS/ACRE)

Entry	Name	Mean (6 Loc/Yr)	Fresno		Kings		Kern	
			2005	2006	2005	2006	2005	2006
<u>CULTIVARS</u>								
20	ANZA	3780 (21)	4320 (19)	4780 (20)	3160 (20)	4480 (10)	2590 (21)	3380 (20)
112	YECORA ROJO	4080 (20)	4600 (18)	3040 (21)	3760 (17)	4670 (8)	3960 (19)	4480 (12)
788	EXPRESS	4810 (16)	4300 (20)	5620 (19)	4120 (15)	4940 (4)	5570 (13)	4290 (16)
1155	SUMMIT	5340 (9)	5590 (6)	5680 (18)	5460 (5)	4350 (13)	6480 (5)	4480 (13)
1156	BLANCA GRANDE	5550 (6)	5470 (9)	6270 (12)	4720 (10)	4860 (5)	5880 (9)	6070 (1)
1255	PLATA	5610 (5)	5700 (4)	5960 (15)	5000 (9)	5210 (2)	6400 (6)	5400 (4)
1341	DASH 12	4800 (17)	5020 (13)	6370 (8)	3570 (19)	4650 (9)	5140 (16)	4060 (18)
1361	CLEAR WHITE	5160 (12)	5230 (10)	6340 (10)	4370 (14)	4770 (7)	5780 (10)	4460 (14)
1392	SOLANO	4840 (15)	4080 (21)	5870 (16)	4530 (12)	4460 (12)	5520 (14)	4610 (9)
1419	PATWIN	5090 (13)	4830 (17)	6360 (9)	5050 (8)	3940 (17)	5760 (11)	4560 (11)
1476	TEMPO	5360 (8)	5000 (14)	5730 (17)	5250 (6)	4860 (6)	6250 (8)	5060 (8)
1478	CAL ROJO	5240 (11)	5560 (8)	7090 (2)	4020 (16)	5000 (3)	5420 (15)	4330 (15)
<u>ADVANCED LINES</u>								
1340	MICA	4150 (19)	5140 (12)	7040 (3)	2510 (21)	4180 (16)	3080 (20)	2940 (21)
1423	YU999-158	5030 (14)	4860 (16)	6540 (5)	4670 (11)	4470 (11)	4470 (17)	5160 (7)
1424	JOAQUIN	6000 (2)	5590 (7)	6740 (4)	5230 (7)	5610 (1)	7100 (2)	5760 (2)
1472	WWW BR6000W	4470 (18)	4890 (15)	6430 (7)	3710 (18)	3770 (18)	4280 (18)	3760 (19)
<u>TRITICALE</u>								
3097	TRICAL BRAND 105	5310 (10)	5630 (5)	7730 (1)	4380 (13)	4300 (15)	5680 (12)	4160 (17)
3143	TRICAL BRAND 96	5840 (3)	5150 (11)	6040 (14)	7400 (2)	3740 (19)	7000 (4)	5710 (3)
3156	TRICAL BRAND 118	6280 (1)	5740 (3)	6520 (6)	8170 (1)	4340 (14)	7680 (1)	5210 (6)
3157	TRICAL BRAND 116	5730 (4)	5930 (2)	6060 (13)	6410 (3)	3660 (20)	7060 (3)	5240 (5)
3158	TRICAL BRAND 98	5450 (7)	6410 (1)	6330 (11)	6250 (4)	2880 (21)	6250 (7)	4580 (10)
	MEAN	5140	5130	5840	4350	4340	4950	4310
	CV	10.5	14.1	8.5	8.8	11.5	8.7	11.7
	LSD (.05)	310	1020	700	540	700	610	700

Numbers in parentheses indicate relative rank in column.

2004-2006 DURUM YIELD SUMMARY, SAN JOAQUIN VALLEY (LBS/ACRE)

Entry	Name	Mean (9 Loc/Yr)	Madera		Fresno	Kings		Kern			
			2004	2006	2005	2004	2005	2006	2004	2005	2006
<u>CULTIVARS</u>											
878	DURAKING	5470 (4)	3410 (8)	7330 (2)	4420 (6)	6780 (2)	5760 (9)	4390 (8)	6460 (4)	5130 (4)	5580 (6)
951	KRONOS	4680 (11)	3670 (4)	6940 (6)	3320 (11)	3730 (10)	4090 (11)	5110 (1)	6130 (6)	3560 (11)	5570 (7)
983	RIA	5210 (8)	3060 (11)	6560 (8)	5030 (1)	4370 (9)	6800 (2)	4680 (5)	5290 (10)	5150 (3)	5940 (2)
1024	MOHAWK	4730 (10)	3850 (2)	6280 (11)	4280 (8)	3540 (11)	4780 (10)	4470 (7)	6020 (8)	3630 (10)	5720 (3)
1166	CROWN	5390 (5)	3870 (1)	7060 (5)	4660 (4)	5500 (7)	6800 (1)	3780 (11)	6310 (5)	5180 (2)	5330 (10)
1210	PLATINUM	5620 (2)	3730 (3)	7250 (4)	4640 (5)	5970 (5)	6660 (3)	4990 (3)	6780 (3)	4900 (5)	5650 (5)
1211	TOPPER	5200 (9)	3210 (9)	7660 (1)	4390 (7)	5680 (6)	5900 (8)	5000 (2)	5120 (11)	4140 (9)	5690 (4)
1375	DESERT KING	5650 (1)	3610 (5)	6510 (9)	4890 (2)	6690 (3)	6520 (4)	4630 (6)	7480 (1)	4380 (8)	6140 (1)
<u>ADVANCED LINES</u>											
1429	RSIOO WV50064	5260 (7)	3540 (7)	6870 (7)	4250 (9)	5410 (8)	6450 (5)	4960 (4)	5860 (9)	4750 (7)	5220 (11)
1430	RSIOO WV50059	5530 (3)	3150 (10)	7320 (3)	4150 (10)	7070 (1)	6300 (7)	4010 (10)	7060 (2)	5290 (1)	5470 (8)
1431	RSIOO WV50014	5300 (6)	3550 (6)	6450 (10)	4820 (3)	6020 (4)	6420 (6)	4230 (9)	6030 (7)	4830 (6)	5330 (9)
	MEAN	5280	3520	6840	4350	4930	5750	4480	6050	4400	5500
	CV	10.3	8.2	5.1	10.4	16.9	9.3	14.2	9	11.5	11.6
	LSD (.05)	250	400	490	630	1170	750	-	760	710	900

Numbers in parentheses indicate relative rank in column.

2006 AND 2004-2006 DURUM YIELD SUMMARY (LBS/ACRE)

Entry	Name	San Joaquin Valley		
		2006 (3 Loc)	2005-06 (6 Loc/Yr)	2004-06 (9 Loc/Yr)
<u>CULTIVARS</u>				
878	DURAKING	5770 (6)	5430 (7)	5470
951	KRONOS	5870 (5)	4770 (14)	4680
983	RIA	5730 (8)	5690 (1)	5210
1024	MOHAWK	5490 (16)	4860 (13)	4730
1166	CROWN	5390 (18)	5470 (4)	5390
1210	PLATINUM	5960 (2)	5680 (2)	5620
1211	TOPPER	6120 (1)	5460 (5)	5200
1215	ORITA	-	-	-
1375	DESERT KING	5760 (7)	5510 (3)	5650
1479	HAVASU	-	-	-
1513	MEAD	-	-	-
<u>ADVANCED LINES</u>				
1429	RSIOOWV50064	5690 (9)	5420 (9)	5260
1430	RSIOOWV50059	5600 (10)	5420 (8)	5530
1431	RSIOOWV50014	5340 (20)	5350 (11)	5300
1452	UCD 04201/18	5470 (17)	5390 (10)	-
1467	WB YU803-11	5570 (13)	5460 (6)	-
1484	APBD257-11	5930 (3)	5150 (12)	-
1503	UC 1503	5890 (4)	-	-
1504	UC 1504	5540 (15)	-	-
1505	WWW D0061	5280 (22)	-	-
1506	WWW D6575D	5280 (21)	-	-
1507	WWW D8270	5340 (19)	-	-
1508	WWW CHD1978B	5210 (23)	-	-
1509	WB YU803-1	5590 (11)	-	-
1510	WB YU802-175	-	-	-
1511	WB YU804-169	-	-	-
1512	WB YU804-172	-	-	-
1519	APB D02AZ-111MT	5550 (14)	-	-
1520	APB D16-5	5570 (12)	-	-
	MEAN	5610	5360	5280
	CV	9.9	9.6	10.3
	LSD (.05)	450	290	250

Numbers in parentheses indicate relative rank in column.

2005 DURUM STRIPE RUST SUMMARY

Entry	Name	Stripe Rust			
		Mean (3 Loc)	UC Davis	Madera	Kern
<u>CULTIVARS</u>					
878	DURAKING	1.7 (12)	2.3	1.5	1.3
951	KRONOS	3.5 (22)	4.0	3.8	2.8
983	RIA	1.3 (8)	1.5	1.0	1.3
1024	MOHAWK	3.1 (21)	4.0	3.5	1.8
1166	CROWN	1.1 (5)	1.0	1.3	1.0
1210	PLATINUM	1.3 (9)	1.8	1.0	1.3
1211	TOPPER	1.8 (14)	1.5	2.3	1.8
1375	DESERT KING	1.3 (9)	1.0	1.0	2.0
<u>ADVANCED LINES</u>					
1429	RSIOOWV50064	1.0 (2)	1.0	1.0	1.0
1430	RSIOOWV50059	1.8 (14)	3.0	1.5	1.0
1431	RSIOOWV50014	1.6 (11)	2.8	1.0	1.0
1452	UCD 04201/18	1.1 (5)	1.0	1.3	1.0
1467	WB YU803-11	1.0 (1)	1.0	1.0	1.0
1484	APBD257-11	2.6 (20)	3.5	2.0	2.3
1503	UC 1503	1.1 (5)	1.0	1.3	1.0
1504	UC 1504	2.0 (18)	1.5	3.0	1.5
1505	WWW D0061	1.9 (17)	2.0	2.0	1.8
1506	WWW D6575D	1.0 (2)	1.0	1.0	1.0
1507	WWW D8270	1.8 (14)	2.0	2.0	1.5
1508	WWW CHD1978B	1.7 (12)	2.3	1.3	1.5
1509	WB YU803-1	1.1 (4)	1.0	1.0	1.3
1519	APB D02AZ-111MT	3.5 (22)	4.3	3.3	3.0
1520	APB D16-5	2.3 (19)	1.8	2.3	2.8
	MEAN	1.8	2.0	1.8	1.5
	CV	33.2	28.4	25.4	46.2
	LSD (.05)	0.5	0.8	0.6	1.0

Rating scale for diseases (area of flag-1 leaf affected): 1 = 0-3%, 2 = 4-14%,
 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.
 Number in parenthesis indicates relative rank in column

2004-2006 BARLEY YIELD SUMMARY, SAN JOAQUIN VALLEY (LBS/ACRE)

Entry	Name	Mean (5 Loc/Yr)	Fresno 2005	Madera 2004	Merced 2006	Kings	
						2004	2006
CULTIVARS							
603	UC 603	4680 (12)	4070 (16)	5670 (8)	4930 (8)	4140 (13)	4580 (16)
816	MAX	4610 (15)	5140 (7)	5890 (4)	2680 (17)	4330 (11)	4990 (12)
885	PATTI	4650 (14)	5010 (9)	6110 (1)	2680 (16)	4300 (12)	5160 (11)
933	UC 933	5110 (8)	5640 (3)	5700 (7)	4390 (13)	3890 (15)	5940 (6)
937	UC 937	4390 (16)	4910 (11)	4060 (16)	4290 (14)	3790 (16)	4910 (13)
951	MELTAN	3670 (17)	4000 (17)	3640 (17)	5160 (6)	1300 (17)	4240 (17)
969	UC 969	4820 (11)	4630 (14)	5250 (14)	4910 (9)	3990 (14)	5300 (10)
1047	ISHI	5360 (6)	5710 (2)	5410 (12)	5910 (1)	4430 (9)	5370 (9)
ADVANCED LINES							
1095	23 IBYT 7	5480 (4)	4880 (12)	5620 (9)	5840 (2)	4840 (5)	6210 (4)
1109	UCD C109	5620 (1)	5060 (8)	5710 (6)	5400 (4)	5260 (2)	6660 (1)
1115	UCD C135	5590 (2)	5950 (1)	5520 (10)	5620 (3)	4450 (8)	6420 (2)
1116	UCD C140	5430 (5)	5220 (6)	5910 (3)	4740 (11)	5020 (4)	6240 (3)
1118	UCD C147	5160 (7)	5440 (4)	4950 (15)	4980 (7)	4590 (7)	5860 (7)
1131	UCD YP03-9/16	5530 (3)	5310 (5)	5760 (5)	5170 (5)	5440 (1)	5960 (5)
1132	UCD YP03-8/16	5030 (10)	4610 (15)	5950 (2)	4670 (12)	5120 (3)	4790 (15)
1133	UCD YP03-9/9	4670 (13)	4680 (13)	5350 (13)	4100 (15)	4420 (10)	4810 (14)
1134	UCD YP03-9/3	5110 (9)	4980 (10)	5500 (11)	4820 (10)	4590 (6)	5650 (8)
	MEAN	4990	5040	5290	4730	4150	5280
	CV	14.7	12.8	11.9	12.7	15.2	19.2
	LSD (.05)	460	910	890	850	890	1430

Numbers in parentheses indicate relative rank in column.

2006 BARLEY LODGING AND DISEASE SUMMARY

Entry	Name	Lodging (Harvest)			Leaf Rust			Net Blotch			Stripe Rust			
		Mean (2 loc)	Kings	Merced	Mean (2 loc)	Merced	UC Davis	Mean (2 loc)	Kings	Merced	Mean (3 loc)	Kings	Merced	UC Davis
CULTIVARS														
603	UC 603	2.3 (8)	3.5	1.0	1.5 (9)	1.3	1.8	2.6 (23)	1.8	3.5	1.3 (20)	2.0	1.0	1.0
816	MAX	4.4 (18)	4.0	4.8	3.0 (19)	2.8	3.3	1.0 (1)	1.0	1.0	7.2 (23)	6.0	8.0	7.5
885	PATTI	2.9 (11)	3.3	2.5	4.8 (23)	7.3	2.3	1.9 (21)	2.8	1.0	1.4 (21)	1.0	1.0	2.3
933	UC 933	3.9 (17)	4.0	3.8	4.1 (22)	5.8	2.5	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
937	UC 937	5.1 (22)	6.0	4.3	2.6 (18)	4.0	1.3	1.6 (19)	2.3	1.0	1.0 (1)	1.0	1.0	1.0
951	MELTAN	2.5 (9)	4.0	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
969	UC 969	1.6 (2)	2.3	1.0	2.0 (14)	2.0	2.0	1.0 (1)	1.0	1.0	1.2 (19)	1.5	1.0	1.0
1047	ISHI	4.4 (18)	4.0	4.8	2.4 (17)	3.5	1.3	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1181	DEVORA	1.8 (5)	2.5	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
ADVANCED LINES														
1095	23 IBYT 7	3.1 (14)	3.8	2.5	1.1 (6)	1.3	1.0	1.1 (14)	1.3	1.0	1.0 (1)	1.0	1.0	1.0
1109	UCD C109	2.8 (10)	2.5	3.0	2.1 (15)	2.8	1.5	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1113	UCD C124	2.0 (6)	2.3	1.8	1.6 (10)	2.3	1.0	2.0 (22)	3.0	1.0	1.0 (1)	1.0	1.0	1.0
1114	UCD C130	3.0 (12)	2.8	3.3	2.1 (15)	3.0	1.3	1.0 (1)	1.0	1.0	1.1 (17)	1.0	1.3	1.0
1115	UCD C135	4.4 (18)	3.5	5.3	3.3 (20)	5.5	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1116	UCD C140	2.1 (7)	2.0	2.3	1.8 (12)	2.3	1.3	1.1 (14)	1.3	1.0	1.0 (1)	1.0	1.0	1.0
1118	UCD C147	4.4 (18)	4.5	4.3	3.8 (21)	5.8	1.8	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1131	UCD YP03-9/16	3.1 (14)	3.3	3.0	1.8 (12)	2.0	1.5	1.1 (14)	1.0	1.3	1.0 (1)	1.0	1.0	1.0
1132	UCD YP03-8/16	3.0 (12)	4.0	2.0	1.4 (7)	1.8	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1133	UCD YP03-9/9	3.1 (14)	5.0	1.3	1.6 (10)	2.0	1.3	1.5 (17)	2.0	1.0	1.0 (1)	1.0	1.0	1.0
1134	UCD YP03-9/3	1.6 (2)	2.3	1.0	1.0 (1)	1.0	1.0	1.5 (17)	2.0	1.0	1.1 (17)	1.3	1.0	1.0
1180	Ceb 20254	1.6 (2)	2.3	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1182	UCD 11HB13	1.4 (1)	1.8	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0 (1)	1.0	1.0	1.0
1183	WWW BA1129A	5.1 (22)	5.3	5.0	1.4 (7)	1.0	1.8	1.6 (19)	2.3	1.0	5.8 (22)	5.0	8.0	4.5
	MEAN	3.0	3.4	2.6	2.1	2.7	1.5	1.3	1.4	1.1	1.5	1.5	1.6	1.5
	CV	50.8	50.4	50.3	38.5	39.1	29.1	36.9	45.3	14.4	42.6	43.8	6.4	61.5
	LSD (.05)	1.5	2.4	1.9	0.8	1.5	0.6	0.5	0.9	0.2	0.5	0.9	0.1	1.3

Number in parenthesis indicates relative rank in column

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%.

2004-2006 BARLEY YIELD SUMMARY, RAINFED (LBS/ACRE)

Entry	Name	Tulare		
		2004	2005	2006
<u>CULTIVARS</u>				
603	UC 603	870	3670 (6)	3670 (16)
816	MAX	260	3030 (16)	4550 (13)
885	PATTI	650	3300 (15)	4410 (14)
933	UC 933	1130	3620 (9)	5100 (5)
937	UC 937	1130	3530 (10)	4860 (9)
951	MELTAN	1080	3850 (3)	4610 (12)
969	UC 969	1130	3520 (12)	4700 (11)
1047	ISHI	880	4100 (2)	4970 (8)
<u>ADVANCED LINES</u>				
1095	23 IBYT 7	1270	3620 (8)	5120 (4)
1109	UCD C109	750	3410 (13)	4810 (10)
1115	UCD C135	990	3850 (4)	5150 (3)
1116	UCD C140	1290	4120 (1)	5240 (2)
1118	UCD C147	1080	3710 (5)	5360 (1)
1131	UCD YP03-9/16	690	3620 (7)	4250 (15)
1133	UCD YP03-9/9	640	3410 (14)	5040 (7)
1134	UCD YP03-9/3	860	3520 (11)	5050 (6)
	MEAN	950	3550	4620
	CV	22.1	18.2	7.7
	LSD (.05)	300	-	500

Numbers in parentheses indicate relative rank in column.

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Small Grain News

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