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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2003 AND MULTIYEAR STATEWIDE RICE VARIETY TESTS IN CALIFORNIA

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University of California Cooperative Extension rice variety evaluation tests were conducted in the Sacramento and San Joaquin Valleys in 2003. This program, a cooperative effort involving the California Cooperative Rice Research Foundation, Inc. (CCRRFI) and the United States Department of Agriculture (USDA), compares advanced breeding lines with commercially available rice varieties and evaluates preliminary breeding lines to determine their adaptation to the principal rice growing areas of California. Entries in the tests include lines and varieties developed by CCRRFI rice breeders. The program is partially funded by the Rice Research Board and cooperating growers provide land, water and on-site management for the tests. Names and brief descriptions of the current publicly developed varieties are listed in Table 1.

Prolonged wet and cold spring planting conditions, as well as some growers selling water allotments to major cities, resulted in a total of 490,050 planted acres, 9.3% reduction compared to the 2002 season (Table 2). Medium-grain varieties M-103, M-104, M-201, M-202, M-204, M-205, M-206, M-401, and M-402 were produced on 87% of the acreage. As in recent years, M-202 was planted on the most acreage (45%), similar to the 2002 season. The combined acreage of M-204 and M-205 decreased 29% to 102,896 acres in 2003. The delay of planting due to prolonged cool and wet spring weather caused an increase in the planting of early maturing varieties M-103 and M-104. Acreage of M-103 and M-104 increased 38%, to 70,621 acres, compared to 2002. The afore mentioned wet weather also reduced the planting window for the long season premium quality medium-grains M-401 and M-402, resulting in 28,073 acres being planted, 38% less than in 2002. Acreage of short-grain types increased 5385 acres above 2002 levels with S-102 produced on 9,071 acres. Long-grain acreage increased slightly in 2003 to 7,440 acres, a 15% increase over 2002 levels. Leading short- and long-grain varieties were Calmochi-101 and L-204, 2.6% and 0.4% of the total acreage respectively.

Planted acreage decreased in 2003, partly due to wet, cold spring conditions. Additional acreage was idled due to the sale of water allotments by some growers. Sixteen days of 100-degree weather in July (Table 3) accelerated heading by as much as 10 days causing elongated

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growth and weakened straw, resulting in increased lodging, and reduced yields. Harvest conditions were optimal, allowing the bulk of the late-planted rice to be harvested prior to the onset of rain in November.

EXPERIMENTAL PROCEDURE

Cultivars and Locations

Field experiments were conducted at eight farm locations in the rice growing counties of California. Two classes of tests were conducted at each site: 1) Advanced tests consisting of advanced breeding lines and commercial varieties; and 2) Preliminary tests consisting of lines to be newly evaluated on a statewide basis. Advanced and preliminary tests were conducted in three maturity groups, Very Early, Early, and Intermediate to Late. Entries in each test were generally restricted to a single maturity group to avoid too early or too late maturation relative to the field variety of the test location. Commercial varieties in the very early and early maturity classes, however, were evaluated in both Very Early and Early tests. Advanced and preliminary lines from the three maturity groups were also evaluated at the Rice Experiment Station (RES), Biggs, California, for a total of 22 statewide tests. Advanced tests were arranged in randomized complete block designs with four replications, while preliminary lines were planted in two replications. Seed for the tests was provided by the RES. Maturity groups, test locations and commercial standards in each test were as follows:

Very Early Maturity Group. Nine advanced breeding lines and eight commercial varieties were evaluated in Advanced Tests at each of the following locations.

	Date Planted
• Butte County (RES)	5/26, 5/31 (Reps 1&2, 3&4 respectively)
• San Joaquin County (Brumley)	5/16
• Sutter County (Lauppe)	5/20
• Yolo County (Erdman)	5/25

Commercial varieties included Calmochi-101, S-102, M-103, M-104, M-202, M-206, L-204, and L-205. Thirty-four experimental lines were evaluated in the Preliminary Tests at each location. Advanced and preliminary experimental lines at each location were entries from the RES breeding program.

Early Maturity Group. Nine advanced lines and ten commercial varieties were evaluated in Advanced Tests at each of the following locations.

	Date Planted
• Butte County (RES)	5/26, 5/31 (Reps 1&2, 3&4 respectively)
• Butte County (Thompson)	6/09
• Colusa County (Dennis)	5/11
• Yuba County (Quad-4)	5/26

Commercial varieties included Calmochi-101 Calhkari-201, S-102, M-202, M-204, M-205, Calmati-201, L-204, and L-205. Thirty-four preliminary lines were included in separate tests at

each site. All advanced and preliminary experimental lines were entries from the RES breeding program.

Late Maturity Group. Six commercial varieties and eight advanced lines were evaluated in Advanced Tests at the following locations.

	Date Planted
• Butte County (RES)	5/26, 5/31 (Reps 1&2, 3&4 respectively)
• Glenn County (Wiley)	4/30
• Sutter County (Akin)	5/10

Commercial varieties included Calhkari-201, M-202, M-205, M-402, Calmati-201 and L-205. Twenty experimental lines were also included in separate tests at each site. Advanced and preliminary non-commercial lines were entries from the RES breeding program.

Planting and Harvesting

Individual plots were water-seeded by hand at a planting rate of 144 lb/acre. Agronomic characteristics measured for each entry were seedling vigor, days to 50% heading, plant height, lodging at harvest, grain moisture at harvest and grain yield at 14% moisture. Seedling vigor was rated subjectively by visual observation on a scale of 1 (poor) to 5 (excellent) at three to four weeks after planting. Scores were based on plant health and stand at crop emergence (through the water). Days to 50% heading was measured as the number of days from planting to when 50% of the heads were free from the boot. Plant height was measured at harvest as the distance from the soil surface to the tip of the panicle. Plant lodging was rated visually on a scale of 1 (no lodging) to 99 (all plants completely lodged).

County tests were harvested with a SWECO 324 small plot combine and plots at the RES were harvested with a modified Allis-Chalmers combine. The harvest area for all plots was 150 ft² (0.0034acre). Grain moisture was assessed at harvest and yields adjusted to 14% moisture.

SUMMARY OF THE VERY EARLY RICE VARIETY TESTS

(<90 days to 50% heading at Biggs, CA)

Agronomic performance data for individual entries at each Very Early location are presented in Tables 4 through 7. A four-location combined yield summary is given in Table 8. Entries are ranked by grain yield with the highest yielding entry appearing first. A yield summary of Very Early rice varieties by location and year (1999-2003) is found in Table 9.

Grain yields in the advanced tests averaged 8660 lbs/acre at the RES, 9000 at Yolo, 8300 at Sutter, and 8500 at San Joaquin. Over the four locations, the highest yielding commercial variety was S-102 at 9190 lbs/acre (Table 8). Entry 02Y045, an advanced long grain, was the highest yielding entry at RES, Yolo, and overall in the four location yield summary.

Only the advanced line 02Y045, at Yolo, produced yields significantly higher than S-102. S-102, 01Y220, an advanced waxy short grain cultivar, and M-206 yielded highest (first, second

and third, respectively) at the cooler San Joaquin trial location. M-104 produced higher yields than M-103 at all locations.

Table 9 shows over-year and over-location yields for the very early commercial varieties compared with leading early varieties in the same tests. Common year-location entries are compared to give relative yield as a percentage of M-103, the very early standard. M-104 yielded 103%, M-202, 101%, Calmochi-101, 102%, S-102, 110%, L-204, 98%, and L-205, 97% of M-103 in the Very Early tests over the last five year period.

SUMMARY OF THE EARLY RICE VARIETY TESTS

(90-97 days to 50% heading at Biggs, CA)

Agronomic performance data for individual entries at each Early location are presented in Tables 10 through 13. A four location combined yield summary is given in Table 14. Entries are ranked by grain yield with the highest yielding entry appearing first.

Yields in the advanced tests averaged 9080 lb/acre at the RES, 7560 lb/acre at Butte, 8270 lb/acre at Colusa and 8020 lb/acre at Yuba. The medium-grain variety, M-205, averaged 9860 lb/acre at the RES, 9850 lb/acre at Colusa, and was the second highest yielding entry, 9130 lb/acre, over the four locations (Table 14). Other leading advanced cultivars were medium-grain 01Y617 and the premium quality short-grain 01Y327 (first and third, respectively). Commercial varieties M-204, S-102, and L-204 ranked seventh, tenth, and eleventh in over-location yield average. Of the preliminary lines, medium-grain entries 02Y565, 02Y412, and 01Y502 were ranked first, second, and third, respectively.

Table 15 shows the over-year and over-location yields for the commercial varieties. Common year-location entries are compared to give relative yield as a percentage of M-202, the early standard. Cahikari-201 yielded 89%, M-204, 101%, M-205, 103%, M-206, 102% and Calmati-201, 76% of M-202 in the Early tests over the past five years.

SUMMARY OF THE INTERMEDIATE-LATE RICE VARIETY TESTS

(intermediate= 98-105 days and late= > 105 days to 50% heading at Biggs, CA)

Agronomic performance data for individual entries at each Intermediate-Late location are presented in Tables 16 through 18. A three location combined yield summary is given in Table 19. Entries are ranked by grain yield with the highest yielding entry appearing first.

Average yields in the advanced Intermediate-Late tests were 9420 lb/acre at the RES, 7580 lb/acre at Glenn, and 9560 lb/acre at Sutter. The medium-grain cultivar M-205 was the highest yielding entry at Sutter and not significantly different than the leading entry at either of the other two locations (Table 19). Climatic conditions mentioned earlier resulted in reduced yields for the medium-grain premium quality entry M-402, ranking thirteenth at RES, ninth at Glenn, tenth at Sutter, and eleventh overall. In the preliminary tests, medium-grain 02Y382 yielded highest overall (10060 lb/acre), with yields of 10620, 8610, and 10950 lb/acre at the RES, Glenn, and Sutter respectively.

Table 20 compares Intermediate-Late maturing commercial cultivars in over-location and over-years tests. Using M-202 as the standard for comparison, M-205 and M-402 yielded 99% and 98%, respectively, over the last five years.

ACKNOWLEDGEMENTS

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Table 1. Characteristics Of Public California Rice Varieties - 2003

CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2003					
Grain Type	Maturity	Year Seed Widely Available	Stem Rot Score ¹	Seedling Vigor ²	Comments
Short Grain					
S-102	Very Early ³	1998	5.6	4.3	Very high yield potential. Good resistance to blanking with larger and less chalky grain. Rough leaves and hulls, grain dries down rapidly during ripening. Susceptible to stem rot.
Medium Grains					
M-103	Very Early ³	1990	5.3	3.9	Very early medium grain, vigor less than M-202. Excellent resistance to blanking. Very good head and total milled rice yields. Moderate lodging and good yield potential.
M-104	Very Early ³	2002	5.4	4.4	Replacement for M-103 in San Joaquin Valley and as an alternative to M-202 in other cool rice areas. Improved seedling vigor, lodging resistance, and yield compared to M-103. Milling yields similar to M-103. Heads 8 to 10 days earlier than M-202. Early planting in warm areas could limit yield and quality.
M-202	Early	1987	5.5	4.4	Very high yield potential. Moderate lodging potential. Long time favorite variety that threshes easily.
M-204	Early	1993	5.5	4.2	Very high yield potential. Seedling vigor slightly less than M-202. Height 3 inches shorter and heading 3 days later than M-202. Better lodging resistance and improved total and head rice yields than M-202. Resistance to blanking similar to M-202. Threshes easily. Not recommended for Escalon, Natomas or other cool areas.
M-205	Early	2002	4.9	4.1	Very high yield potential. Primary adaptation area west of Highway 70 and north of Highway 20. Height, seedling vigor, and blanking resistance similar to M-204. Matures 4-7 days later than M-202. Improved milling yields relative to M-202. Not recommended for Escalon, Natomas or other cool areas.
M-206	Very Early to Early	2005	4.8	4.3	Very high yield potential. Adapted to entire rice area. Comparable to other medium grains. Improved resistance to blanking and lodging. Improved whole grain head potential. Four days later than M-104 and four days earlier than M-202.
Long Grains					
L-204	Early	1998	5.2	4.1	High yield potential. Resistant to lodging. Seedling vigor fair, may be affected by deep water. Improved head rice and cooking characteristics. Avoid early draining (requires 40-45 days after 50% heading to mature) and harvest at 18-19% moisture to maximize milling yield.
L-205	Early	2001	5.2	3.9	Newrex type, dry cooking long grain. High yield potential. Two days later than L-204. Resistant to lodging. More resistant to blanking than L-204. Seedling vigor fair. Seed size slightly smaller than L-204. Similar milling yield to L-204. Avoid early draining (requires 40-45 days after 50% heading to mature) and harvest at 16-18% grain moisture to maximize milling yield.
Premium Quality					
M-401	Late	1983	5.1	4.3	<i>Premium quality</i> medium grain rice with large kernels. Good yield potential but susceptible to blanking, lodging and damage from premature drainage. Use 20-25% less nitrogen than on other medium grain varieties. Best adapted to warmer areas. Milling yields lower than other medium grain varieties.
M-402	Late	2001	4.7	4.2	<i>Premium quality</i> medium grain. Kernel size is smaller than M-401, much higher head rice potential. About 5-7 days earlier than M-401 with better straw strength. Adapted to warmer areas.
Calhikari-201	Early	2001	6.0	4.4	<i>Premium quality</i> short grain developed for the Japanese premium short-grain market. Has very good seedling vigor. A semidwarf with much greater yield potential and resistance to lodging than Japanese varieties. Rough leaves and hulls. Cold delays maturity and increases blanking. Use low nitrogen to maximize market quality.
Specialty Rices					
Calmochi-101	Very Early ^{3,4}	1987	5.3	4.2	Glutinous (sweet, waxy) rice. Excellent blanking resistance. Has rough leaves and hulls, no awns. Grain dries down rapidly during ripening.
A-201	Early ⁴	1998	5.8	4.2	Aromatic (popcorn aroma) long grain. Moderate yield potential. Becomes leafy under excessive nitrogen. Poor milling yield, use slower cylinder speed and harvest at 18-20% grain moisture. Air dry without heat to retain aroma.
Calmati-201	Early ⁴	2001	5.1	3.9	A basmati type aromatic long grain. Moderate yield potential. Five days later than L-204. Pubescent leaves and hull. Milling yield is considerably higher than A-201. Very susceptible to blanking and should not be grown in cool areas. Excessive nitrogen and late planting will delay maturity and increase blanking. Harvest at 17-18% grain moisture.

¹ Average stem rot score over last five years: 0 = no disease and 10 = severe disease.

² Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling vigor.

³ Milling quality and yield may be reduced by early planting in warmer areas.

⁴ Specialty varieties should not be grown unless arrangements have first been made with a marketing agency.

Table 2. California Rice Agerage by Variety (2000-2003)¹

Variety	2000		2001		2002		2003	
	(acres)	(%)	(acres)	(%)	(acres)	(%)	(acres)	(%)
Short Grains								
S-102	10,464	1.85	7,424	1.58	8,943	1.66	9,071	1.85
Akitakomachi	10,175	1.80	8,438	1.79	5,618	1.04	7,497	1.53
Calhikari-201	3,822	0.68	-	-	-	-	-	-
Calmochi-101	11,077	1.96	11,230	2.39	13,869	2.57	15,843	3.23
Koshihikari	6,205	1.10	6,136	1.30	6,320	1.17	4,659	0.95
Other ²	NA	NA	NA	NA	NA	NA	3,065	0.63
Subtotal	41,743	7.39	33,228	7.06	34,750	6.43	40,135	8.19
Medium Grains								
M-103	11,720	2.07	8,055	1.71	2,048	0.38	7,756	1.58
M-104	493	0.09	29,199	6.20	41,862	7.75	62,865	12.83
M-201	6,917	1.22	2,440	0.52	1,475	0.27	4,000	0.82
M-202	353,879	62.63	232,765	49.43	247,200	45.77	221,883	45.28
M-204	76,320	13.51	62,999	13.38	56,629	10.48	33,261	6.79
M-205	849	0.15	37,594	7.98	88,497	16.39	69,635	14.21
M-206	NA	NA	NA	NA	NA	NA	591	0.12
M-401	33,662	5.96	29,898	6.35	32,204	5.96	18,607	3.80
M-402	9,194	1.63	5,319	1.13	6,607	1.22	9,466	1.93
Kokuhorose	12,527	2.22	12,176	2.59	14,842	2.75	-	-
NFD 181	4,620	0.82	3,061	0.65	3,527	0.65	-	-
Other ²	NA	NA	NA	NA	NA	NA	12,175	2.47
Subtotal	510,181	90.30	423,506	89.94	494,890	91.63	440,239	89.83
Long Grains								
L-204	2,093	0.37	1,235	0.26	1,200	0.22	1,929	0.39
L-205	2,647	0.47	6,472	1.37	2,099	0.39	1,893	0.39
A-201	1,025	0.18	799	0.17	1,203	0.22	1,455	0.30
A-301	1,449	0.26	1,700	0.36	1,469	0.27	790	0.16
Calmati-201	1,202	0.21	1,507	0.32	336	0.06	874	0.18
Other ²	NA	NA	NA	NA	NA	NA	500	0.10
Subtotal	8,416	1.49	11,713	2.48	6,306	1.17	7,441	1.52
Other ²	4,660	0.82	2,348	0.50	4,153	0.77	2,235	0.46
Total	565,000	100	470,795	100	540,100	100	490,050	100.00

¹ Estimates based on survey of rice millers and marketers and certified seed acerage conducted by Rice Experiment Station, PO Box 306, Biggs, CA 95917-0306.

² Other varieties reported include: Short Grains S-201, Calhikari-201, Hitomebore, Surpass, H-4, and 89-Y-235; Medium Grain SP 411; Long Grains L-202 and L-203; and proprietary and speciality varieties.

Table 3. 2003 County Weather Data - Daily Maximums and Minimums (°F). Collected by UC IPM - IMPACT and CIMIS

	Glenn (Willows)		Colusa (colusa)		Yolo (zamora)		Butte (Durham)		Yuba (Yuba City)		Sutter (Nicolas)		San Joaquin (Escalon)		Glenn (Willows)		Colusa (colusa)		Yolo (zamora)		Butte (Durham)		Yuba (Yuba City)		Sutter (Nicolas)		San Joaquin (Escalon)		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr 01	65	50	67	48	65	47	62	48	81	51	62	44	57	46	Jun 01	99	67	97	57	96	58	97	61	98	55	99	57	94	55
Apr 02	58	31	58	37	58	37	59	39	60	44	58	39	56	41	Jun 02	101	62	98	58	97	61	96	57	100	65	96	60	96	56
Apr 03	59	32	60	33	60	31	59	35	62	36	58	33	61	39	Jun 03	101	59	100	60	98	61	99	58	101	58	98	62	96	59
Apr 04	60	31	61	37	61	36	60	39	62	38	61	36	60	40	Jun 04	99	60	94	59	93	56	92	62	94	61	90	57	89	57
Apr 05	60	32	62	30	61	32	61	32	64	38	61	32	62	35	Jun 05	92	60	91	59	87	55	89	62	93	59	86	56	86	57
Apr 06	62	44	65	44	65	42	64	46	68	46	65	41	65	38	Jun 06	88	58	87	57	86	55	84	57	90	58	83	56	83	56
Apr 07	73	43	73	41	71	42	74	42	75	46	72	38	72	39	Jun 07	87	58	87	57	86	56	85	58	90	59	84	57	83	55
Apr 08	76	44	76	41	76	41	77	45	80	49	77	40	80	41	Jun 08	89	59	88	58	87	55	88	61	93	59	85	56	87	56
Apr 09	78	43	78	40	76	40	77	46	80	50	76	44	78	50	Jun 09	86	58	86	55	85	52	85	60	90	56	81	54	85	54
Apr 10	71	43	70	48	70	43	71	49	73	52	69	47	74	50	Jun 10	79	56	77	55	76	53	78	56	81	57	75	55	80	55
Apr 11	70	36	68	35	68	34	69	40	72	44	68	39	68	47	Jun 11	82	54	81	54	79	51	80	56	84	55	77	53	80	51
Apr 12	55	43	56	48	54	49	57	47	58	53	56	49	67	52	Jun 12	78	53	77	53	74	51	77	54	88	54	76	54	77	53
Apr 13	57	28	58	44	60	39	58	44	61	49	61	41	66	45	Jun 13	82	53	83	54	83	49	81	56	85	47	83	53	83	53
Apr 14	64	22	64	38	63	37	63	37	64	41	62	33	65	42	Jun 14	87	54	86	56	85	49	86	56	87	52	85	54	85	54
Apr 15	62	32	62	35	61	37	61	36	63	31	61	36	66	38	Jun 15	97	58	95	55	91	53	95	58	94	54	95	55	90	50
Apr 16	62	42	63	43	63	45	65	45	65	37	65	48	65	48	Jun 16	100	57	98	58	96	56	97	60	100	57	95	59	95	57
Apr 17	68	44	66	45	67	44	66	50	65	44	66	46	66	43	Jun 17	95	64	94	64	94	58	95	66	99	66	91	62	90	62
Apr 18	69	42	68	42	68	44	68	42	69	40	67	42	68	39	Jun 18	86	60	86	60	85	55	85	63	90	61	84	58	83	58
Apr 19	75	44	74	43	73	48	73	43	70	41	72	37	74	38	Jun 19	84	56	83	56	83	53	83	58	86	58	82	55	83	54
Apr 20	69	43	68	47	68	42	69	46	66	39	67	44	67	43	Jun 20	85	54	84	56	82	53	84	60	88	59	83	49	83	50
Apr 21	61	43	63	43	62	39	62	42	63	43	61	42	58	46	Jun 21	84	52	82	55	81	51	81	57	86	56	82	54	80	49
Apr 22	67	41	65	39	66	38	64	40	63	37	66	37	65	43	Jun 22	85	55	86	55	84	53	85	59	89	60	85	57	85	53
Apr 23	62	42	62	48	65	44	62	49	62	43	62	47	69	42	Jun 23	88	53	86	52	81	52	85	56	86	58	85	54	82	51
Apr 24	65	39	61	45	62	42	59	45	61	49	60	40	60	46	Jun 24	92	59	89	55	88	63	89	57	91	59	88	59	89	54
Apr 25	59	41	59	44	60	39	59	45	58	43	58	40	64	45	Jun 25	99	58	97	53	94	62	95	60	99	55	97	54	97	54
Apr 26	65	37	63	42	64	38	62	43	68	42	63	38	65	38	Jun 26	103	57	101	59	99	57	98	62	101	62	99	60	101	58
Apr 27	69	37	67	37	69	36	68	43	70	44	67	40	72	42	Jun 27	104	61	104	61	103	63	99	64	106	60	101	63	102	61
Apr 28	59	35	57	47	60	48	56	46	62	46	61	45	65	45	Jun 28	99	65	100	62	101	58	97	64	102	61	99	66	101	60
Apr 29	59	45	59	47	60	43	59	45	61	50	60	43	63	39	Jun 29	95	55	97	62	92	54	93	66	85	67	93	59	92	56
Apr 30	69	29	68	41	68	37	68	41	69	42	67	40	68	41	Jun 30	91	51	91	59	90	50	89	62	92	51	89	57	90	55
May 01	74	41	70	42	70	43	70	46	72	47	70	41	74	45	Jul 01	89	54	89	56	89	51	88	57	89	49	87	55	91	55
May 02	58	50	60	53	61	53	60	50	63	54	63	53	63	51	Jul 02	90	51	90	58	91	48	90	57	92	51	88	53	92	51
May 03	66	53	68	53	67	53	64	53	65	55	65	53	67	53	Jul 03	91	51	91	56	90	49	89	57	93	49	90	54	94	54
May 04	68	47	67	48	67	45	66	50	71	49	66	47	65	48	Jul 04	96	58	96	53	95	51	95	58	100	50	97	54	96	52
May 05	71	32	69	52	69	43	70	53	73	48	70	41	70	43	Jul 05	92	61	95	57	96	55	95	62	98	50	93	59	94	56
May 06	66	48	67	49	70	44	66	48	73	49	68	47	70	43	Jul 06	87	58	90	56	90	53	90	62	98	52	86	57	88	58
May 07	67	49	68	50	69	49	68	47	72	48	68	49	69	46	Jul 07	86	57	86	57	90	52	84	61	98	50	81	56	82	57
May 08	64	48	63	41	65	42	63	42	74	42	64	41	64	46	Jul 08	93	52	91	53	89	51	91	55	94	48	92	53	91	51
May 09	66	39	65	36	66	38	66	38	68	41	65	36	68	41	Jul 09	98	57	97	54	96	55	95	57	99	65	98	58	96	54
May 10	74	41	73	41	73	41	72	42	76	47	72	39	74	41	Jul 10	97	58	98	63	99	55	97	63	100	56	98	60	96	57
May 11	74	49	73	46	75	42	73	44	77	47	74	41	79	42	Jul 11	97	57	99	60	98	53	95	62	101	54	100	58	95	56
May 12	81	50	81	49	80	44	80	47	89	52	81	44	84	44	Jul 12	96	61	98	66	97	58	94	67	97	58	94	62	97	59
May 13	87	51	85	49	86	50	87	51	89	52	88	47	86	49	Jul 13	94	60	92	63	92	56	90	61	94	58	99	61	93	60
May 14	87	54	87	52	85	49	86	54	89	52	83	52	78	50	Jul 14	95	61	99	59	97	59	96	60	100	58	98	58	98	58
May 15	79	50	75	52	76	45	74	53	78	53	74	51	75	44	Jul 15	100	62	93	59	95	60	92	64	98	61	93	63	96	59
May 16	81	50	81	47	81	47	79	51	83	52	81	44	80	44	Jul 16	101	58	97	59	96	54	93	63	100	59	97	60	97	58
May 17	78	49	77	49	77	50	77	54	83	54	77	47	80	51	Jul 17	103	64	102	63	101	61	101	65	106	61	103	61	103	60
May 18	75	41	75	52	75	53	75	52	85	52	76	45	77	50	Jul 18	104	67	103	64	103	63	101	66	106	65	101	66	103	64
May 19	83	53	84	52	84	56	83	52	86	53	83	44	85	48	Jul 19	101	66	99	65	99	63	94	66	101	63	95	65	102	67
May 20	91	49	89	48	90	50	90	49	94	53	90	47	90	49	Jul 20	103	69	102	69	102	69	98	71	104	68	101	69	103	69
May 21	96	60	92	53	94	56	94	53	96	56	94	53	94	52	Jul 21	105	68	101	74	94	69	99	71	103	68	99	71	100	70
May 22	98	61	96	58	92	55	95	59	98	61	99	56	95	55	Jul 22	103	70	102	68	100	66	101	71	105	60	99	66	102	68
May 23	99	65	96	61	96	59	97	63	100	63	95	58	96	56	Jul 23	95	69	91	67	87	64	92	72	96	64	85	68	91	68
May 24	84	57	84	56	88	52	83	59	84	54	81	55	79	56	Jul 24	100	72	99	72	97</									

Table 3. (Continued)

	Glenn (Willows)		Colusa (colusa)		Yolo (zamora)		Butte (Durham)		Yuba (Yuba City)		Sutter (Nicolas)		San Joaquin (Escalon)	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Aug 01	93	64	93	66	93	65	88	66	91	61	90	66	91	65
Aug 02	80	67	80	65	84	65	79	64	82	57	82	64	82	65
Aug 03	90	65	91	63	90	60	88	65	93	55	89	60	90	62
Aug 04	90	61	89	61	89	58	87	62	86	53	84	60	85	60
Aug 05	83	56	84	59	81	56	81	60	84	57	81	59	84	57
Aug 06	85	57	84	59	85	54	83	60	85	52	81	59	83	60
Aug 07	84	62	85	58	84	54	83	57	85	50	82	57	86	56
Aug 08	87	62	88	58	88	53	86	55	89	49	86	57	88	57
Aug 09	90	59	91	62	92	54	89	62	92	52	88	58	91	56
Aug 10	91	57	92	59	93	52	90	56	92	50	89	58	91	58
Aug 11	89	55	91	60	92	51	88	57	94	51	91	56	91	56
Aug 12	91	56	92	53	92	53	90	55	94	53	91	56	91	55
Aug 13	92	53	94	58	90	51	88	53	94	48	93	54	90	54
Aug 14	90	53	90	53	90	50	89	57	92	53	87	58	87	58
Aug 15	89	53	91	51	91	52	89	55	95	50	91	56	91	58
Aug 16	96	56	97	54	95	54	95	54	98	51	96	54	95	53
Aug 17	93	56	99	54	96	57	95	56	100	59	96	57	96	56
Aug 18	98	57	99	55	98	56	94	58	99	57	94	57	94	61
Aug 19	93	56	92	55	92	55	89	61	99	52	87	58	92	60
Aug 20	97	58	96	54	97	56	94	58	99	52	98	58	94	60
Aug 21	90	63	89	66	89	64	85	67	88	58	83	64	79	63
Aug 22	75	61	78	60	79	63	75	62	78	55	77	60	79	61
Aug 23	85	59	88	57	86	59	87	59	90	52	88	56	87	59
Aug 24	94	61	94	58	93	62	93	60	96	55	99	59	95	60
Aug 25	97	58	98	57	96	62	98	58	100	54	99	59	99	58
Aug 26	94	64	96	65	98	64	95	69	98	65	94	66	98	65
Aug 27	90	56	92	59	92	54	90	58	91	52	88	57	92	55
Aug 28	88	55	89	57	90	53	88	57	88	47	83	56	87	57
Aug 29	96	55	94	51	92	53	93	52	93	47	90	52	90	55
Aug 30	93	57	93	55	92	54	92	58	93	49	91	56	92	54
Aug 31	100	57	101	60	96	58	100	63	99	59	95	59	95	59
Sep 01	100	61	101	59	100	60	97	62	102	55	102	59	99	58
Sep 02	101	62	102	59	101	59	103	63	106	57	97	60	100	60
Sep 03	97	63	95	65	85	64	95	65	96	59	93	65	93	69
Sep 04	93	63	93	65	93	62	91	66	92	56	88	62	90	63
Sep 05	91	59	91	61	91	58	89	60	86	53	86	58	89	59
Sep 06	84	53	83	57	85	50	82	54	74	52	79	56	82	56
Sep 07	76	53	78	51	84	52	74	54	72	50	79	53	83	55
Sep 08	83	49	82	51	82	52	82	57	74	52	81	53	83	55
Sep 09	81	55	80	55	82	55	77	59	82	55	78	58	77	57
Sep 10	92	59	89	57	88	61	88	57	89	56	85	57	87	58
Sep 11	100	65	95	61	92	57	96	63	90	54	92	55	93	55
Sep 12	100	72	97	57	96	66	97	61	97	56	93	57	96	56
Sep 13	98	66	95	61	95	62	95	67	96	65	91	57	95	56
Sep 14	95	66	98	53	99	58	92	57	98	59	95	53	97	55
Sep 15	85	52	87	60	91	54	85	59	88	60	83	58	89	55
Sep 16	82	50	81	54	82	48	78	52	81	53	83	53	84	49
Sep 17	85	51	84	52	83	56	84	60	83	57	80	51	83	51
Sep 18	92	52	91	48	89	56	92	56	92	57	88	47	89	47
Sep 19	93	54	92	47	92	49	90	48	95	54	90	48	94	50
Sep 20	103	57	99	50	100	56	98	56	98	58	95	50	93	51
Sep 21	100	57	99	51	97	54	95	52	98	58	101	54	98	56
Sep 22	101	58	102	52	99	58	98	57	100	60	100	54	98	58
Sep 23	99	60	99	53	99	57	94	56	98	61	93	55	93	57
Sep 24	95	57	93	53	85	54	87	56	89	58	85	52	84	58
Sep 25	89	51	85	53	87	53	81	52	88	56	81	53	82	55
Sep 26	87	51	86	49	87	50	82	53	84	54	83	52	84	55
Sep 27	89	53	89	52	89	50	87	55	88	55	88	52	86	56
Sep 28	89	56	88	52	88	51	85	55	88	55	84	53	85	56
Sep 29	82	50	91	51	82	50	77	52	84	57	82	55	82	57
Sep 30	88	51	87	49	87	52	86	50	87	54	87	49	87	53
Oct 01	84	53	84	55	85	49	82	54	83	56	81	54	81	55
Oct 02	85	52	84	48	83	49	80	50	82	52	79	48	81	51
Oct 03	84	52	83	48	84	48	79	52	82	52	80	50	83	53
Oct 04	82	53	80	54	81	52	79	58	81	55	79	54	81	54
Oct 05	89	53	88	52	86	52	88	54	87	49	84	50	84	53
Oct 06	92	54	93	52	92	54	87	52	92	50	89	52	89	55
Oct 07	90	56	88	51	86	51	86	54	85	55	86	51	88	53
Oct 08	85	53	86	53	88	50	83	55	88	59	83	53	85	53
Oct 09	82	52	80	50	78	49	79	53	80	55	77	54	78	56
Oct 10	80	50	77	48	78	53	76	56	76	56	76	43	76	46
Oct 11	85	45	83	40	83	42	82	42	83	45	82	38	82	41
Oct 12	85	45	83	46	84	51	82	46	83	49	81	43	83	46
Oct 13	88	52	87	59	85	49	86	54	85	58	84	37	83	46
Oct 14	85	49	84	42	83	44	85	44	84	43	85	42	84	42
Oct 15	78	46	80	40	77	41	75	43	80	45	79	40	82	43
Oct 16	85	46	83	45	84	46	81	45	84	48	84	45	82	46
Oct 17	85	52	85	47	85	50	83	48	85	51	85	51	87	46
Oct 18	82	49	83	46	85	46	82	48	86	49	83	46	88	48
Oct 19	82	45	82	47	81	46	83	51	82	50	81	48	85	53
Oct 20	91	45	89	46	88	51	88	50	90	52	88	46	88	48
Oct 21	89	49	89	46	91	49	88	47	89	54	92	46	94	49
Oct 22	83	50	86	45	87	44	85	49	84	53	82	47	81	50
Oct 23	92	53	84	45	85	48	84	46	84	51	84	45	84	50
Oct 24	92	56	87	45	86	46	88	46	85	48	82	40	86	44
Oct 25	95	74	92	65	92	58	91	56	89	51	91	41	88	45
Oct 26	96	68	94	56	93	53	93	54	92	58	95	46	88	47
Oct 27	95	51	90	46	90	47	91	46	89	51	89	47	87	47
Oct 28	93	58	89	48	89	48	86	50	88	50	85	45	91	48
Oct 29	89	53	79	46	81	49	81	49	81	53	80	45	82	52
Oct 30	65	39	64	39	65	40	64	46	68	44	64	36	66	38
Oct 31	55	45	54	38	55	35	55	42	54	45	55	36	56	39

Table 4. 2003 Very Early Rice Variety Test - Biggs (RES)

<i>Advanced Lines and Varieties</i>						
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
02Y045	L	10210 (1)	5.0 (1)	72 (9)	43 (8)	36 (9)
S-102	S	10150 (2)	4.9 (7)	71 (5)	60 (11)	37 (16)
01Y185	SPQ	9760 (3)	4.7 (15)	72 (9)	36 (5)	37 (14)
L-204	L	9480 (4)	4.9 (3)	77 (17)	1 (1)	33 (2)
L-205	REX	9370 (5)	4.8 (11)	77 (15)	36 (5)	35 (4)
99Y469	L	9340 (6)	4.7 (16)	73 (13)	28 (3)	33 (1)
01Y266	M	9180 (7)	4.7 (17)	72 (12)	39 (7)	35 (6)
00Y170	S	9120 (8)	4.8 (11)	66 (2)	69 (12)	34 (3)
CM101	WX	8630 (9)	4.9 (3)	71 (8)	73 (14)	37 (13)
02Y520	REX	8590 (10)	4.9 (9)	66 (3)	24 (2)	37 (12)
00Y805	M	8180 (11)	5.0 (1)	71 (5)	56 (10)	37 (14)
00Y175	WX	8080 (12)	4.9 (3)	74 (14)	79 (17)	35 (5)
M-206	M	7950 (13)	4.9 (7)	70 (4)	30 (4)	35 (6)
M-202	M	7760 (14)	4.9 (6)	77 (15)	78 (16)	37 (16)
M-104	M	7470 (15)	4.8 (10)	65 (1)	50 (9)	36 (9)
01Y220	WX	7270 (16)	4.8 (11)	71 (5)	71 (13)	36 (11)
M-103	M	6720 (17)	4.8 (11)	72 (9)	75 (15)	35 (6)
MEAN		8660	4.8	71	50	36
CV		10.1	1.5	2.7	48.4	5.3
LSD (.05)		1250	0.1	3	34	3
<i>Preliminary Lines and Varieties</i>						
02Y519	REX	10080 (1)	4.9 (7)	72 (18)	2 (7)	45 (9)
02Y516	L	9850 (2)	4.8 (21)	73 (23)	21 (12)	48 (28)
02Y502	L	9590 (3)	4.9 (6)	71 (10)	2 (6)	45 (9)
02Y198	S	9580 (4)	4.8 (21)	73 (21)	26 (13)	47 (21)
02Y187	S	9290 (5)	4.8 (25)	75 (28)	46 (16)	47 (26)
02P2878	REX	9250 (6)	4.8 (25)	71 (10)	14 (10)	43 (4)
02Y474	REX	9250 (7)	4.8 (18)	71 (10)	1 (1)	41 (2)
02Y480	SR	9090 (8)	4.9 (9)	74 (24)	1 (1)	44 (5)
01Y451	REX	8990 (9)	4.8 (25)	69 (2)	50 (17)	46 (14)
02Y496	L	8940 (10)	4.7 (33)	73 (21)	1 (4)	44 (8)
02Y210	WX	8820 (11)	4.8 (18)	74 (24)	83 (30)	47 (26)
02Y834	M	8700 (12)	4.8 (18)	73 (19)	4 (8)	46 (14)
02Y234	M	8670 (13)	4.8 (32)	71 (10)	18 (11)	47 (21)
02Y816	M	8590 (14)	5.0 (4)	75 (31)	55 (19)	46 (14)
02Y244	M	8570 (15)	4.9 (12)	74 (26)	31 (15)	46 (19)
02Y221	WX	8490 (16)	4.8 (21)	71 (10)	94 (34)	47 (21)
02Y889	M	8450 (17)	4.8 (21)	71 (8)	53 (18)	48 (29)
02Y505	REX	8450 (18)	4.9 (12)	77 (34)	1 (1)	44 (5)
01Y477	BAS	8290 (19)	4.9 (12)	71 (10)	13 (9)	46 (14)
02Y172	SPQ	8160 (20)	4.9 (7)	75 (28)	88 (33)	49 (31)
02Y243	M	8030 (21)	4.9 (12)	71 (10)	61 (22)	45 (11)
02Y238	M	7980 (22)	4.9 (12)	72 (17)	68 (23)	46 (19)
02Y887	M	7940 (23)	4.8 (25)	76 (33)	77 (27)	48 (29)
02Y847	M	7930 (24)	4.9 (9)	70 (4)	59 (21)	43 (3)
01Y478	BAS	7810 (25)	4.9 (9)	71 (9)	1 (4)	44 (5)
02Y864	M	7770 (26)	4.8 (25)	75 (28)	88 (32)	47 (21)
02Y237	M	7760 (27)	4.8 (25)	70 (7)	68 (23)	49 (34)
02Y844	M	7710 (28)	5.0 (2)	70 (6)	76 (25)	45 (11)
99Y324	SPQ	7460 (29)	4.9 (12)	74 (27)	30 (14)	39 (1)
02Y833	M	7420 (30)	5.0 (2)	67 (1)	55 (19)	46 (14)
02Y872	M	7360 (31)	4.7 (34)	73 (20)	83 (31)	47 (21)
01Y195	MPQ	7310 (32)	5.0 (4)	70 (4)	76 (25)	49 (31)
01Y295	MPQ	6970 (33)	4.8 (25)	76 (32)	80 (29)	49 (31)
02Y171	SPQ	6850 (34)	5.0 (1)	69 (2)	79 (28)	45 (11)
MEAN		8390	4.8	72	44	46
CV		8	1.4	2.4	30.7	3.2
LSD (.05)		1370	0.1	4	28	3

Planting dates: May 26, May 31 (reps 1&2, 3&4 respectively).

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 5. 2003 Very Early Rice Variety Test - Yolo Co.

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
02Y045	L	9720 (1)	16.9 (13)	5.0 (1)	77 (11)	1 (1)	41 (15)
M-202	M	9350 (2)	20.1 (3)	5.0 (5)	82 (16)	1 (1)	41 (15)
M-206	M	9300 (3)	21.2 (1)	5.0 (1)	77 (11)	2 (9)	39 (11)
02Y520	REX	9300 (4)	16.4 (16)	4.9 (6)	69 (2)	1 (1)	40 (14)
01Y220	WX	9290 (5)	20.6 (2)	4.6 (14)	73 (7)	13 (12)	39 (11)
00Y170	S	9270 (6)	19.0 (8)	4.5 (15)	69 (1)	24 (14)	36 (1)
00Y805	M	9100 (7)	18.7 (9)	5.0 (1)	79 (13)	1 (1)	41 (15)
S-102	S	9050 (8)	17.2 (11)	4.9 (10)	70 (3)	3 (11)	39 (10)
01Y266	M	9050 (9)	19.5 (7)	4.6 (13)	76 (10)	2 (9)	38 (4)
L-205	REX	9030 (10)	16.2 (17)	4.7 (12)	83 (17)	1 (1)	39 (8)
01Y185	SPQ	8930 (11)	19.6 (5)	4.5 (15)	75 (9)	1 (1)	38 (6)
M-104	M	8880 (12)	18.6 (10)	4.9 (6)	70 (4)	35 (15)	39 (8)
99Y469	L	8670 (13)	16.4 (15)	4.5 (15)	79 (13)	1 (1)	37 (3)
L-204	L	8590 (14)	16.8 (14)	4.7 (11)	80 (15)	1 (1)	36 (1)
00Y175	WX	8580 (15)	19.8 (4)	5.0 (1)	74 (8)	15 (13)	39 (7)
CM101	WX	8480 (16)	17.1 (12)	4.9 (8)	73 (6)	50 (16)	38 (4)
M-103	M	8420 (17)	19.5 (6)	4.9 (8)	72 (5)	65 (17)	40 (13)
MEAN		9000	18.5	4.8	75	13	39
CV		3.9	2.9	3.3	0.8	111.5	2.9
LSD (.05)		500	0.8	0.2	1	20	2
<i>Preliminary Lines and Varieties</i>							
01Y451	REX	10130 (1)	16.2 (27)	4.6 (22)	79 (29)	8 (22)	42 (31)
02Y816	M	10120 (2)	18.1 (19)	5.0 (1)	83 (34)	1 (1)	41 (22)
02Y516	L	10040 (3)	18.0 (20)	4.7 (20)	77 (20)	1 (1)	42 (31)
02Y519	REX	9700 (4)	16.8 (24)	4.5 (27)	80 (31)	1 (1)	41 (28)
02Y221	WX	9660 (5)	23.2 (1)	4.3 (33)	75 (9)	83 (30)	41 (28)
02Y833	M	9640 (6)	17.9 (21)	5.0 (5)	72 (1)	1 (1)	40 (12)
02Y237	M	9470 (7)	19.0 (12)	4.9 (7)	73 (2)	40 (25)	40 (15)
02Y505	REX	9390 (8)	15.3 (30)	4.6 (22)	80 (32)	1 (1)	38 (6)
02Y887	M	9340 (9)	20.2 (6)	5.0 (1)	79 (29)	23 (24)	41 (28)
02Y502	L	9320 (10)	15.6 (29)	4.9 (8)	77 (20)	1 (1)	39 (7)
02Y474	REX	9280 (11)	16.1 (28)	4.4 (30)	75 (12)	1 (1)	38 (4)
02Y238	M	9250 (12)	19.2 (9)	4.8 (16)	77 (24)	53 (28)	40 (15)
02Y198	S	9220 (13)	19.1 (10)	4.8 (16)	74 (7)	1 (1)	39 (7)
02Y496	L	9100 (14)	15.3 (31)	4.6 (22)	78 (27)	1 (1)	41 (22)
02Y187	S	9010 (15)	19.4 (8)	4.4 (28)	76 (13)	1 (1)	42 (34)
02Y210	WX	8990 (16)	20.2 (7)	4.8 (14)	75 (9)	50 (27)	41 (22)
02Y172	SPQ	8990 (17)	18.7 (14)	5.0 (5)	76 (18)	1 (1)	40 (15)
99Y324	SPQ	8940 (18)	18.4 (16)	4.6 (22)	77 (20)	8 (23)	36 (1)
02Y844	M	8910 (19)	20.2 (5)	4.8 (14)	74 (7)	48 (26)	40 (15)
02Y864	M	8850 (20)	18.9 (13)	4.9 (8)	77 (24)	85 (32)	40 (12)
02Y244	M	8830 (21)	19.0 (11)	4.8 (16)	76 (13)	1 (1)	42 (31)
02Y834	M	8730 (22)	18.1 (18)	4.9 (8)	77 (20)	1 (1)	39 (7)
02Y234	M	8720 (23)	17.3 (23)	5.0 (1)	75 (9)	3 (20)	41 (22)
02Y171	SPQ	8510 (24)	16.7 (25)	4.9 (8)	78 (27)	65 (29)	40 (15)
01Y477	BAS	8440 (25)	14.7 (34)	4.4 (30)	76 (18)	1 (1)	39 (7)
02P2878	REX	8440 (26)	14.7 (33)	4.4 (28)	74 (4)	1 (1)	36 (2)
01Y195	MPQ	8400 (27)	20.5 (3)	4.8 (16)	74 (4)	97 (34)	40 (15)
02Y480	SR	8370 (28)	16.3 (26)	4.6 (22)	82 (33)	1 (1)	40 (12)
01Y478	BAS	8300 (29)	14.7 (32)	3.9 (34)	77 (24)	1 (1)	39 (7)
02Y889	M	8210 (30)	17.7 (22)	4.9 (8)	76 (13)	1 (1)	41 (22)
02Y847	M	8190 (31)	18.4 (17)	4.7 (20)	76 (13)	1 (1)	37 (3)
01Y295	MPQ	8180 (32)	22.0 (2)	5.0 (1)	74 (4)	93 (33)	41 (22)
02Y243	M	7970 (33)	18.5 (15)	4.9 (8)	73 (3)	3 (20)	38 (4)
02Y872	M	7770 (34)	20.4 (4)	4.3 (32)	76 (13)	83 (30)	40 (15)
MEAN		8950	18.1	4.7	76	22	40
CV		3.2	3.7	5.7	1.8	64.7	2.7
LSD (.05)		590	1.4	0.5	3	29	2

Planting date: May 25 Harvest date: October 9.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 6. 2003 Very Early Rice Variety Test - Sutter Co.

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y266	M	8780 (1)	19.5 (5)	3.9 (17)	79 (13)	49 (7)	38 (12)
00Y170	S	8680 (2)	18.0 (8)	5.0 (9)	71 (1)	98 (15)	35 (2)
01Y185	SPQ	8680 (3)	20.7 (3)	4.7 (15)	76 (9)	66 (10)	36 (5)
L-205	REX	8610 (4)	16.1 (13)	5.0 (9)	82 (17)	1 (1)	36 (5)
M-206	M	8580 (5)	17.2 (10)	5.0 (1)	79 (13)	48 (6)	37 (8)
S-102	S	8460 (6)	16.7 (11)	5.0 (1)	71 (1)	99 (17)	37 (9)
M-104	M	8420 (7)	18.1 (6)	5.0 (1)	73 (6)	88 (12)	38 (12)
L-204	L	8370 (8)	15.0 (16)	5.0 (9)	78 (12)	8 (2)	35 (2)
02Y045	L	8350 (9)	16.5 (12)	5.0 (1)	77 (10)	29 (5)	38 (14)
00Y805	M	8300 (10)	15.7 (14)	5.0 (1)	82 (15)	63 (9)	35 (2)
01Y220	WX	8260 (11)	20.9 (2)	4.8 (14)	74 (8)	75 (11)	38 (15)
M-202	M	8250 (12)	18.0 (7)	5.0 (1)	82 (16)	24 (4)	36 (7)
99Y469	L	8240 (13)	14.2 (17)	4.7 (16)	77 (10)	50 (8)	35 (1)
00Y175	WX	7960 (14)	21.8 (1)	5.0 (9)	74 (7)	97 (13)	37 (11)
M-103	M	7940 (15)	19.8 (4)	5.0 (9)	72 (4)	97 (13)	37 (9)
02Y520	REX	7810 (16)	15.3 (15)	5.0 (1)	71 (3)	15 (3)	38 (17)
CM101	WX	7350 (17)	17.5 (9)	5.0 (1)	72 (5)	98 (15)	38 (15)
MEAN		8300	17.7	4.9	76	59	37
CV		5.3	4.5	2.9	1	32.3	2.8
LSD (.05)		630	1.1	0.2	1	27	1
<i>Preliminary Lines and Varieties</i>							
02Y238	M	9330 (1)	16.2 (23)	5.0 (1)	79 (33)	85 (30)	36 (3)
02Y210	WX	9220 (2)	18.4 (12)	4.9 (29)	76 (14)	73 (25)	39 (32)
02Y505	REX	9020 (3)	15.1 (26)	5.0 (1)	79 (31)	1 (1)	38 (27)
02Y187	S	9010 (4)	20.0 (1)	5.0 (1)	75 (10)	50 (23)	36 (3)
02Y234	M	8850 (5)	18.2 (13)	4.9 (29)	78 (26)	25 (17)	37 (22)
02Y816	M	8820 (6)	17.7 (15)	5.0 (1)	85 (34)	1 (1)	37 (14)
02Y244	M	8820 (7)	19.7 (2)	5.0 (1)	76 (14)	6 (9)	37 (22)
02Y516	L	8740 (8)	16.5 (22)	5.0 (27)	75 (7)	1 (1)	39 (32)
02Y237	M	8740 (9)	16.8 (21)	4.8 (32)	74 (3)	97 (31)	37 (22)
02Y833	M	8740 (10)	17.3 (20)	5.0 (1)	75 (7)	25 (17)	38 (31)
02Y221	WX	8650 (11)	17.3 (19)	4.7 (34)	75 (10)	83 (28)	36 (3)
02Y889	M	8590 (12)	19.5 (5)	5.0 (1)	72 (1)	23 (16)	41 (34)
02Y198	S	8470 (13)	18.9 (8)	5.0 (1)	76 (14)	11 (13)	36 (3)
02Y887	M	8470 (14)	18.9 (9)	5.0 (1)	79 (31)	40 (22)	38 (27)
02Y864	M	8430 (15)	18.9 (7)	5.0 (1)	76 (14)	83 (28)	37 (14)
02Y243	M	8260 (16)	19.0 (6)	5.0 (1)	75 (7)	1 (1)	37 (14)
02Y502	L	8150 (17)	14.9 (28)	4.9 (29)	76 (21)	11 (13)	37 (14)
02Y844	M	8150 (18)	17.3 (17)	5.0 (1)	75 (10)	6 (9)	37 (14)
02Y519	REX	8130 (19)	14.7 (29)	5.0 (1)	78 (26)	3 (8)	37 (22)
02Y872	M	8120 (20)	19.5 (4)	5.0 (1)	74 (3)	97 (31)	37 (14)
01Y451	REX	8090 (21)	14.0 (32)	5.0 (1)	74 (3)	30 (19)	36 (11)
02P2878	REX	8050 (22)	14.4 (31)	5.0 (1)	74 (2)	73 (25)	36 (3)
99Y324	SPQ	8030 (23)	17.5 (16)	5.0 (1)	78 (26)	8 (12)	35 (2)
02Y834	M	8030 (24)	19.6 (3)	5.0 (1)	78 (26)	1 (1)	36 (3)
01Y295	MPQ	7920 (25)	17.3 (18)	5.0 (1)	78 (26)	65 (24)	38 (27)
02Y172	SPQ	7860 (26)	18.8 (10)	5.0 (1)	77 (23)	30 (19)	37 (22)
02Y847	M	7820 (27)	16.0 (25)	5.0 (1)	78 (25)	35 (21)	36 (3)
02Y480	SR	7760 (28)	16.2 (24)	5.0 (1)	77 (23)	1 (1)	38 (27)
02Y496	L	7690 (29)	13.2 (34)	5.0 (27)	75 (10)	11 (13)	37 (14)
01Y478	BAS	7630 (30)	14.5 (30)	5.0 (1)	76 (14)	8 (11)	36 (3)
02Y474	REX	7420 (31)	13.4 (33)	5.0 (1)	74 (3)	97 (31)	34 (1)
02Y171	SPQ	7370 (32)	18.1 (14)	5.0 (1)	76 (14)	97 (31)	37 (14)
01Y477	BAS	7160 (33)	15.0 (27)	4.8 (32)	76 (14)	1 (1)	36 (11)
01Y195	MPQ	7140 (34)	18.7 (11)	5.0 (1)	77 (22)	73 (25)	36 (11)
MEAN		8250	17.1	5.0	76	37	37
CV		4.7	3.3	2.1	1.2	38.4	3.4
LSD (.05)		790	1.2		2	29	3

Planting date: May 20 Harvest date: September 29.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy;

REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 7. 2003 Very Early Rice Variety Test - San Joaquin Co.

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
S-102	S	9070 (1)	17.1 (15)	5.0 (1)	78 (1)	1 (1)	36 (13)
01Y220	WX	8990 (2)	22.0 (6)	5.0 (14)	82 (6)	1 (1)	35 (10)
M-206	M	8890 (3)	24.0 (3)	5.0 (14)	92 (16)	1 (1)	36 (15)
00Y170	S	8830 (4)	21.4 (9)	5.0 (1)	79 (3)	1 (1)	32 (1)
00Y175	WX	8720 (5)	22.3 (5)	5.0 (1)	83 (7)	1 (1)	35 (12)
02Y045	L	8700 (6)	19.3 (11)	5.0 (1)	86 (11)	1 (1)	36 (13)
CM101	WX	8630 (7)	18.0 (13)	5.0 (1)	80 (4)	1 (1)	35 (10)
M-104	M	8470 (8)	21.5 (8)	5.0 (1)	87 (12)	1 (1)	34 (6)
02Y520	REX	8420 (9)	17.1 (16)	5.0 (1)	79 (2)	1 (1)	34 (6)
01Y185	SPQ	8400 (10)	22.6 (4)	5.0 (1)	89 (13)	1 (1)	35 (8)
99Y469	L	8390 (11)	17.7 (14)	5.0 (14)	85 (10)	1 (1)	33 (2)
01Y266	M	8340 (12)	24.1 (2)	5.0 (17)	91 (14)	1 (1)	36 (15)
M-103	M	8330 (13)	20.5 (10)	5.0 (1)	81 (5)	1 (1)	34 (4)
00Y805	M	8270 (14)	21.9 (7)	5.0 (1)	91 (14)	1 (1)	38 (17)
L-204	L	8190 (15)	19.2 (12)	5.0 (1)	84 (8)	1 (1)	34 (3)
M-202	M	7980 (16)	24.8 (1)	5.0 (1)	97 (17)	1 (1)	35 (8)
L-205	REX	7890 (17)	16.6 (17)	5.0 (1)	84 (8)	1 (1)	34 (4)
MEAN		8500	20.6	5.0	85	1	35
CV		4	5.5	0.5	1.7		3.7
LSD (.05)		480	1.6		2		2

Preliminary Lines and Varieties

02Y210	WX	9330 (1)	21.0 (12)	5.0 (1)	87 (22)	3 (33)	35 (24)
02Y187	S	9330 (2)	22.2 (4)	4.7 (33)	84 (13)	2 (32)	36 (29)
02Y237	M	9190 (3)	20.5 (16)	5.0 (1)	83 (11)	1 (1)	36 (28)
02Y221	WX	9170 (4)	20.5 (17)	4.7 (33)	85 (17)	31 (34)	35 (19)
02Y238	M	9150 (5)	21.2 (7)	5.0 (1)	90 (28)	1 (1)	35 (19)
02Y872	M	8800 (6)	20.2 (18)	5.0 (1)	82 (7)	1 (1)	34 (15)
02Y198	S	8790 (7)	22.8 (2)	5.0 (27)	83 (11)	1 (1)	36 (29)
02Y516	L	8770 (8)	18.4 (24)	5.0 (27)	86 (20)	1 (1)	37 (34)
02Y244	M	8680 (9)	20.8 (15)	5.0 (1)	87 (23)	1 (1)	36 (29)
02Y816	M	8540 (10)	22.6 (3)	5.0 (1)	97 (34)	1 (1)	35 (19)
02Y887	M	8430 (11)	19.8 (20)	5.0 (1)	86 (20)	1 (1)	34 (11)
01Y451	REX	8430 (12)	14.8 (32)	5.0 (1)	79 (1)	1 (1)	34 (11)
02Y474	REX	8350 (13)	15.0 (31)	5.0 (1)	80 (2)	1 (1)	30 (1)
02Y833	M	8320 (14)	18.9 (23)	5.0 (1)	84 (15)	1 (1)	34 (11)
02Y234	M	8260 (15)	21.3 (6)	5.0 (1)	92 (31)	1 (1)	34 (15)
02Y864	M	8160 (16)	19.7 (21)	5.0 (1)	84 (13)	1 (1)	33 (6)
02Y171	SPQ	8050 (17)	17.8 (26)	5.0 (1)	85 (17)	1 (1)	36 (29)
02Y496	L	8020 (18)	15.2 (30)	5.0 (1)	84 (15)	1 (1)	33 (6)
02P2878	REX	8010 (19)	15.8 (28)	5.0 (1)	81 (4)	1 (1)	34 (11)
02Y844	M	8010 (20)	22.0 (5)	5.0 (1)	90 (29)	1 (1)	34 (15)
02Y502	L	8000 (21)	15.5 (29)	5.0 (1)	81 (5)	1 (1)	32 (5)
01Y295	MPQ	7940 (22)	21.0 (13)	5.0 (27)	82 (8)	1 (1)	36 (29)
01Y195	MPQ	7910 (23)	20.9 (14)	5.0 (1)	83 (9)	1 (1)	34 (15)
02Y889	M	7850 (24)	21.1 (11)	5.0 (1)	83 (9)	1 (1)	35 (24)
02Y519	REX	7830 (25)	20.0 (19)	5.0 (1)	89 (26)	1 (1)	35 (24)
02Y834	M	7820 (26)	21.1 (10)	5.0 (1)	92 (31)	1 (1)	35 (24)
02Y505	REX	7770 (27)	16.3 (27)	5.0 (1)	89 (27)	1 (1)	33 (10)
02Y172	SPQ	7710 (28)	23.5 (1)	5.0 (27)	94 (33)	1 (1)	35 (19)
02Y243	M	7630 (29)	19.5 (22)	5.0 (1)	85 (17)	1 (1)	33 (6)
02Y847	M	7460 (30)	21.2 (8)	5.0 (1)	91 (30)	1 (1)	35 (19)
02Y480	SR	7210 (31)	18.2 (25)	5.0 (1)	88 (24)	1 (1)	33 (6)
99Y324	SPQ	7100 (32)	21.1 (9)	5.0 (1)	88 (25)	1 (1)	31 (2)
01Y478	BAS	6760 (33)	14.7 (34)	4.9 (32)	81 (5)	1 (1)	32 (4)
01Y477	BAS	6670 (34)	14.8 (33)	5.0 (27)	80 (3)	1 (1)	31 (2)
MEAN		8160	19.4	5.0	85	2	34
CV		5.2	5.0	1.1	1.9	368.5	3.7
LSD (.05)		870	2	0.1	3		3

Planting date: May 16 Harvest date: October 2.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 8. 2003 Very Early Rice Variety Tests - Four Location Yield (lb/ac @ 14% moisture) Summary

<i>Advanced Lines and Varieties</i>						
Variety	Grain Type	Average	Biggs (RES)	Yolo Erdman	Sutter Lauppe	San Joaquin Brumley
02Y045	L	9240 (1)	10210 (1)	9720 (1)	8350 (9)	8700 (6)
S-102	S	9190 (2)	10150 (2)	9050 (8)	8460 (6)	9070 (1)
00Y170	S	8970 (3)	9120 (8)	9270 (6)	8680 (2)	8830 (4)
01Y185	SPQ	8940 (4)	9760 (3)	8930 (11)	8680 (3)	8400 (10)
01Y266	M	8840 (5)	9180 (7)	9050 (9)	8780 (1)	8340 (12)
L-205	L	8730 (6)	9370 (5)	9030 (10)	8610 (4)	7890 (17)
M-206	M	8680 (7)	7950 (13)	9300 (3)	8580 (5)	8890 (3)
99Y469	L	8660 (8)	9340 (6)	8670 (13)	8240 (13)	8390 (11)
L-204	L	8660 (9)	9480 (4)	8590 (14)	8370 (8)	8190 (15)
02Y520	REX	8530 (10)	8590 (10)	9300 (4)	7810 (16)	8420 (9)
00Y805	M	8460 (11)	8180 (11)	9100 (7)	8300 (10)	8270 (14)
01Y220	WX	8450 (12)	7270 (16)	9290 (5)	8260 (11)	8990 (2)
M-202	M	8340 (13)	7760 (14)	9350 (2)	8250 (12)	7980 (16)
00Y175	WX	8340 (14)	8080 (12)	8580 (15)	7960 (14)	8720 (5)
M-104	M	8310 (15)	7470 (15)	8880 (12)	8420 (7)	8470 (8)
CM101	WX	8270 (16)	8630 (9)	8480 (16)	7350 (17)	8630 (7)
M-103	M	7850 (17)	6720 (17)	8420 (17)	7940 (15)	8330 (13)
MEAN		8610	8660	9000	8300	8500
CV		6.4	10.1	3.9	5.3	4.0
LSD (.05)		380	1250	500	630	480
<i>Preliminary Lines and Varieties</i>						
02Y516	L	9350 (1)	9850 (2)	10040 (3)	8740 (8)	8770 (8)
02Y187	S	9160 (2)	9290 (5)	9010 (15)	9010 (4)	9330 (2)
02Y210	WX	9090 (3)	8820 (11)	8990 (16)	9220 (2)	9330 (1)
02Y816	M	9020 (4)	8590 (14)	10120 (2)	8820 (6)	8540 (10)
02Y198	S	9020 (5)	9580 (4)	9220 (13)	8470 (13)	8790 (7)
02Y221	WX	8990 (6)	8490 (16)	9660 (5)	8650 (11)	9170 (4)
02Y519	REX	8940 (7)	10080 (1)	9700 (4)	8130 (19)	7830 (25)
02Y238	M	8930 (8)	7980 (22)	9250 (12)	9330 (1)	9150 (5)
01Y451	REX	8910 (9)	8990 (9)	10130 (1)	8090 (21)	8430 (12)
02Y237	M	8790 (10)	7760 (27)	9470 (7)	8740 (9)	9190 (3)
02Y502	L	8760 (11)	9590 (3)	9320 (10)	8150 (17)	8000 (21)
02Y244	M	8720 (12)	8570 (15)	8830 (21)	8820 (7)	8680 (9)
02Y505	REX	8660 (13)	8450 (18)	9390 (8)	9020 (3)	7770 (27)
02Y234	M	8620 (14)	8670 (13)	8720 (23)	8850 (5)	8260 (15)
02Y474	REX	8570 (15)	9250 (7)	9280 (11)	7420 (31)	8350 (13)
02Y887	M	8550 (16)	7940 (23)	9340 (9)	8470 (14)	8430 (11)
02Y833	M	8530 (17)	7420 (30)	9640 (6)	8740 (10)	8320 (14)
02P2878	REX	8440 (18)	9250 (6)	8440 (26)	8050 (22)	8010 (19)
02Y496	L	8440 (19)	8940 (10)	9100 (14)	7690 (29)	8020 (18)
02Y834	M	8320 (20)	8700 (12)	8730 (22)	8030 (24)	7820 (26)
02Y864	M	8300 (21)	7770 (26)	8850 (20)	8430 (15)	8160 (16)
02Y889	M	8280 (22)	8450 (17)	8210 (30)	8590 (12)	7850 (24)
02Y844	M	8190 (23)	7710 (28)	8910 (19)	8150 (18)	8010 (20)
02Y172	SPQ	8180 (24)	8160 (20)	8990 (17)	7860 (26)	7710 (28)
02Y480	SR	8110 (25)	9090 (8)	8370 (28)	7760 (28)	7210 (31)
02Y872	M	8010 (26)	7360 (31)	7770 (34)	8120 (20)	8800 (6)
02Y243	M	7970 (27)	8030 (21)	7970 (33)	8260 (16)	7630 (29)
99Y324	SPQ	7880 (28)	7460 (29)	8940 (18)	8030 (23)	7100 (32)
02Y847	M	7850 (29)	7930 (24)	8190 (31)	7820 (27)	7460 (30)
01Y295	MPQ	7750 (30)	6970 (33)	8180 (32)	7920 (25)	7940 (22)
02Y171	SPQ	7700 (31)	6850 (34)	8510 (24)	7370 (32)	8050 (17)
01Y195	MPQ	7690 (32)	7310 (32)	8400 (27)	7140 (34)	7910 (23)
01Y477	BAS	7640 (33)	8290 (19)	8440 (25)	7160 (33)	6670 (34)
01Y478	BAS	7620 (34)	7810 (25)	8300 (29)	7630 (30)	6760 (33)
MEAN		8440	8390	8950	8250	8160
CV		5.5	8	3.2	4.7	5.2
LSD (.05)		460	1370	590	790	870

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy;

REX = Newrex; SR = stem rot resistant.

Numbers in parentheses indicate relative rank in column.

Table 9. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (1999-2003)

Location	Year	M-103	M-104	M-202	M-206	Calmochi			
						101	S-102	L-204	L-205
Biggs (RES)	1999	10330	10550	10480	-	10200	11140	10310	10610
	2000	9160	9720	9380	-	8590	9390	9330	10500
	2001	9040	9760	9950	9720	8930	10260	10300	10220
	2002	8740	10170	9710	10670	8890	9910	10120	10910
	2003	6720	7470	7760	7950	8630	10150	9480	9370
Location Mean		8798	9534	9456	9447	9048	10170	9908	10322
San Joaquin	1999	7980	5620	-	-	8860	8260	2460	2490
	2000	7710	8260	6670	-	6750	8180	7370	6720
	2001	8080	8400	7010	8280	9070	9680	7750	7300
	2002	8630	9400	8750	8900	8550	8910	7800	7280
	2003	8330	8470	7980	8890	8630	9070	8190	7890
Location Mean		8146	8030	7602.5	8690	8372	8820	6714	6336
Sutter	1999	9670	9260	9990	-	9670	10150	9410	9170
	2000	9230	9220	9940	-	9300	9750	8980	9370
	2001	8310	8780	8590	9480	8530	9260	8530	8250
	2002	9320	9620	8940	9870	9010	9950	8860	9050
	2003	7940	8420	8250	8580	7350	8460	8370	8610
Location Mean		8894	9060	9142	9310	8772	9514	8830	8890
Yolo	1999	9960	9020	7420	-	9960	10290	9250	7750
	2000	9290	9340	9820	-	9800	9870	9170	8970
	2001	8710	9300	8880	9130	9550	9880	8230	7680
	2002	8770	9580	8680	9180	8890	9830	7570	8180
	2003	8420	8880	9350	9300	8480	9050	8590	9030
Location Mean		9030	9224	8830	9203	9336	9784	8562	8322
Loc/Years Mean		8717	8962	8818	9163	8882	9572	8504	8468
Yield % M-103		100.0	102.8	101.2	105.1	101.9	109.8	97.6	97.1
Number of Tests		20	20	19	12	20	20	20	20

Table 10. 2003 Early Rice Variety Test - Biggs (RES)

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture		Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)				
		lbs/acre									
01Y327	SPQ	10830	(1)	4.8	(11)	79	(16)	40	(9)	37	(12)
01Y617	M	10090	(2)	4.6	(19)	78	(12)	10	(5)	35	(4)
99Y529	L	9970	(3)	4.7	(16)	78	(12)	1	(1)	36	(6)
01Y655	REX	9900	(4)	4.9	(6)	80	(17)	9	(4)	37	(9)
M-205	M	9860	(5)	4.8	(13)	80	(18)	29	(7)	35	(2)
99Y041	L	9500	(6)	5.0	(3)	76	(7)	73	(15)	38	(16)
00Y805	M	9480	(7)	4.9	(6)	73	(3)	56	(13)	39	(18)
01Y314	MPQ	9440	(8)	4.6	(18)	75	(6)	48	(11)	37	(14)
L-204	L	9410	(9)	4.9	(8)	77	(9)	1	(1)	32	(1)
S102	S	9390	(10)	4.8	(11)	70	(1)	80	(18)	38	(16)
L-205	REX	9290	(11)	4.8	(13)	78	(11)	20	(6)	35	(2)
M-204	M	9280	(12)	4.7	(17)	78	(15)	29	(7)	37	(9)
M-202	M	8530	(13)	5.0	(3)	77	(8)	79	(16)	37	(14)
M-206	M	8320	(14)	4.8	(9)	72	(2)	45	(10)	37	(12)
CH201	SPQ	8310	(15)	5.0	(1)	77	(10)	79	(17)	35	(4)
02Y346	SPQ	7920	(16)	4.9	(5)	78	(14)	49	(12)	39	(19)
CT-201	BAS	7910	(17)	4.7	(15)	82	(19)	1	(1)	37	(9)
CM101	WX	7900	(18)	4.8	(9)	73	(3)	88	(19)	37	(8)
BL-1	S	7250	(19)	5.0	(2)	74	(5)	71	(14)	36	(6)
MEAN		9080		4.8		77		42		36	
CV		7.9		2.2		2.1		46.7		4.4	
LSD (.05)		1020		0.2		2		28		2	

Preliminary Lines and Varieties

02 P2644	REX	10850	(1)	4.8	(17)	81	(29)	1	(1)	34	(2)
01Y110	REX	10710	(2)	4.8	(17)	74	(3)	40	(25)	37	(13)
01Y502	SR	10700	(3)	4.7	(27)	77	(12)	1	(1)	36	(5)
02Y565	SR	10170	(4)	4.7	(29)	80	(26)	2	(8)	37	(13)
02Y412	M	10060	(5)	4.8	(17)	79	(18)	20	(16)	38	(26)
02Y662	M	10030	(6)	4.9	(7)	78	(13)	8	(12)	35	(3)
02Y366	S	9860	(7)	4.9	(7)	73	(1)	25	(19)	38	(21)
00Y506	L	9810	(8)	3.7	(34)	80	(24)	1	(1)	34	(1)
02Y413	M	9660	(9)	4.7	(29)	79	(18)	30	(21)	37	(18)
02Y466	M	9650	(10)	4.7	(31)	80	(28)	11	(13)	35	(3)
02Y459	M	9560	(11)	4.8	(17)	79	(23)	2	(7)	36	(10)
02Y823	M	9560	(12)	4.8	(13)	79	(21)	3	(9)	36	(10)
02Y838	M	9540	(13)	4.8	(25)	74	(5)	35	(23)	38	(21)
02Y293	M	9500	(14)	4.8	(17)	76	(10)	7	(11)	36	(5)
02Y333	MPQ	9470	(15)	4.8	(23)	84	(32)	3	(10)	36	(5)
02Y458	M	9420	(16)	4.8	(25)	78	(16)	76	(30)	37	(18)
02Y461	M	9390	(17)	4.9	(3)	80	(24)	23	(17)	37	(18)
00Y342	BG	9290	(18)	4.9	(7)	81	(30)	55	(28)	39	(32)
02Y273	M	9230	(19)	4.8	(13)	78	(13)	15	(15)	36	(5)
01Y345	BG	9140	(20)	4.9	(4)	82	(31)	13	(14)	38	(26)
02Y577	L	9110	(21)	4.9	(7)	76	(9)	1	(1)	38	(21)
02Y111	SR	9070	(22)	4.7	(31)	80	(26)	1	(1)	36	(5)
02Y275	M	9050	(23)	4.8	(17)	73	(1)	39	(24)	37	(13)
02Y246	M	8950	(24)	4.6	(33)	74	(4)	26	(20)	37	(13)
02Y898	M	8820	(25)	4.9	(4)	78	(16)	24	(18)	38	(26)
02Y311	MPQ	8430	(26)	4.9	(7)	79	(18)	90	(31)	39	(29)
01 51493	LB	8200	(27)	5.0	(2)	85	(34)	33	(22)	39	(29)
02Y308	MPQ	7820	(28)	4.8	(23)	77	(11)	97	(32)	38	(21)
BL-2	SPQ	7810	(29)	4.9	(4)	78	(15)	49	(27)	37	(13)
02Y343	SPQ	7770	(30)	5.0	(1)	79	(21)	99	(34)	38	(21)
9843561	BAS	7760	(31)	4.9	(7)	76	(8)	1	(1)	39	(29)
00Y292	MPQ	7290	(32)	4.7	(27)	75	(6)	98	(33)	42	(34)
01 51577	BAS	7170	(33)	4.8	(13)	84	(33)	40	(25)	36	(10)
01Y489	BAS	7140	(34)	4.8	(13)	76	(7)	64	(29)	41	(33)
MEAN		9120		4.8		78		30		37	
CV		7.4		6.4		1.2		39.9		2.6	
LSD (.05)		1370		2		2		25		2	

Planting dates: May 26, May 31 (reps 1&2, 3&4 respectively).

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant; BG = bold grain.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 11. 2003 Early Rice Variety Test - Butte County

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y617	M	8570 (1)	21.5 (5)	4.6 (18)	81 (16)	5 (5)	38 (8)
M-205	M	8460 (2)	21.3 (7)	4.9 (13)	80 (14)	55 (9)	37 (3)
99Y041	L	8370 (3)	19.4 (10)	5.0 (7)	80 (13)	81 (12)	38 (11)
M-204	M	8140 (4)	21.2 (8)	5.0 (10)	80 (14)	81 (12)	37 (3)
01Y327	SPQ	8070 (5)	21.3 (6)	4.9 (15)	77 (9)	15 (6)	37 (7)
S102	S	8060 (6)	17.0 (14)	4.8 (17)	71 (1)	96 (16)	38 (9)
M-206	M	8050 (7)	22.3 (3)	5.0 (1)	73 (4)	77 (10)	38 (11)
99Y529	L	8030 (8)	16.1 (18)	4.6 (18)	81 (17)	1 (1)	37 (3)
00Y805	M	7970 (9)	19.7 (9)	5.0 (7)	74 (5)	86 (14)	40 (17)
01Y655	REX	7800 (10)	16.9 (15)	4.8 (16)	85 (19)	2 (4)	39 (16)
M-202	M	7580 (11)	22.1 (4)	5.0 (7)	79 (12)	80 (11)	40 (19)
01Y314	MPQ	7570 (12)	22.9 (2)	4.9 (13)	77 (7)	44 (8)	40 (18)
L-205	REX	7570 (13)	16.7 (16)	4.9 (11)	83 (18)	40 (7)	38 (9)
02Y346	SPQ	7350 (14)	24.3 (1)	5.0 (1)	76 (6)	95 (15)	38 (14)
L-204	L	7240 (15)	16.5 (17)	4.9 (11)	79 (10)	1 (1)	36 (2)
CM101	WX	6880 (16)	17.6 (13)	5.0 (1)	73 (2)	99 (18)	38 (11)
CH201	SPQ	6240 (17)	18.2 (12)	5.0 (1)	77 (8)	99 (18)	37 (3)
CT-201	BAS	5830 (18)	14.4 (19)	5.0 (1)	79 (10)	1 (1)	39 (15)
BL-1	S	5790 (19)	18.7 (11)	5.0 (1)	73 (3)	98 (17)	35 (1)
MEAN		7560	19.4	4.9	78	56	38
CV		3.8	5.4	3.5	0.9	28.5	3.4
LSD (.05)		410	1.5	0.2	1	22	2

Preliminary Lines and Varieties

02Y273	M	8740 (1)	19.9 (8)	4.9 (21)	76 (11)	1 (1)	36 (7)
02Y412	M	8580 (2)	19.5 (12)	4.8 (29)	76 (11)	50 (25)	37 (15)
02Y413	M	8520 (3)	20.5 (4)	4.7 (31)	76 (7)	70 (27)	36 (7)
02Y565	SR	8500 (4)	16.3 (27)	5.0 (16)	80 (24)	1 (1)	37 (15)
01Y345	BG	8490 (5)	18.5 (17)	5.0 (1)	80 (28)	1 (1)	37 (12)
02Y466	M	8460 (6)	19.5 (13)	4.8 (28)	79 (19)	1 (1)	36 (5)
02Y366	S	8350 (7)	17.8 (19)	5.0 (1)	74 (1)	8 (18)	37 (15)
02Y459	M	8290 (8)	20.0 (7)	5.0 (1)	77 (16)	1 (1)	37 (15)
02Y461	M	8280 (9)	19.9 (9)	4.9 (21)	79 (19)	25 (21)	37 (15)
02Y823	M	8210 (10)	20.1 (5)	5.0 (1)	80 (24)	1 (1)	38 (24)
02Y275	M	8080 (11)	19.5 (14)	4.6 (33)	75 (5)	38 (24)	36 (7)
02Y662	M	7980 (12)	19.7 (11)	5.0 (1)	79 (22)	1 (1)	38 (24)
01Y502	SR	7960 (13)	16.0 (28)	4.7 (31)	80 (24)	1 (1)	35 (1)
02Y293	M	7900 (14)	19.2 (16)	4.8 (29)	76 (11)	1 (1)	35 (1)
02Y458	M	7820 (15)	21.6 (2)	4.5 (34)	79 (22)	95 (29)	38 (24)
01Y110	REX	7680 (16)	16.5 (26)	4.9 (21)	78 (17)	15 (20)	37 (15)
02Y838	M	7650 (17)	17.1 (22)	5.0 (1)	76 (7)	35 (23)	37 (12)
02Y308	MPQ	7620 (18)	19.8 (10)	5.0 (1)	75 (4)	99 (32)	37 (15)
02Y246	M	7440 (19)	16.9 (23)	5.0 (16)	74 (3)	13 (19)	38 (24)
00Y506	L	7420 (20)	15.1 (32)	5.0 (1)	80 (24)	1 (1)	37 (12)
02Y333	MPQ	7400 (21)	19.4 (15)	5.0 (1)	81 (30)	1 (1)	37 (15)
00Y292	MPQ	7390 (22)	20.0 (6)	4.9 (21)	74 (1)	99 (32)	41 (33)
00Y342	BG	7290 (23)	20.8 (3)	5.0 (1)	77 (15)	95 (29)	40 (31)
02 P2644	REX	6970 (24)	15.9 (29)	5.0 (16)	81 (30)	1 (1)	35 (1)
02Y311	MPQ	6970 (25)	22.5 (1)	5.0 (16)	81 (29)	88 (28)	38 (28)
02Y898	M	6910 (26)	17.2 (20)	4.9 (21)	76 (7)	3 (17)	37 (15)
02Y111	SR	6710 (27)	16.8 (24)	4.9 (21)	84 (32)	1 (1)	36 (7)
02Y577	L	6440 (28)	15.2 (31)	5.0 (16)	78 (17)	1 (1)	40 (30)
01 51493	BAS	6190 (29)	14.5 (33)	4.9 (21)	84 (32)	1 (1)	39 (29)
02Y343	SPQ	5900 (30)	17.2 (21)	5.0 (1)	76 (11)	99 (32)	36 (5)
9843561	BAS	5530 (31)	15.4 (30)	5.0 (1)	79 (19)	1 (1)	41 (34)
BL-2	SPQ	5350 (32)	17.9 (18)	5.0 (1)	75 (5)	97 (31)	36 (7)
01 51577	BAS	5270 (33)	16.6 (25)	5.0 (1)	84 (32)	60 (26)	35 (1)
01Y489	BAS	5180 (34)	14.4 (34)	5.0 (1)	76 (7)	26 (22)	40 (31)
MEAN		7400	18.1	4.9	78	30	37
CV		4.7	3.9	2.7	1.3	35	3.2
LSD (.05)		700	1.5	0.3	2	22	2

Planting date: June 9 Harvest date: October 22.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy;

REX = Newrex; SR = stem rot resistant; BG = bold grain.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 12. 2003 Early Rice Variety Test - Colusa County

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y617	M	9850 (1)	23.4 (1)	5.0 (8)	88 (15)	38 (7)	40 (4)
M-205	M	9570 (2)	22.0 (5)	5.0 (1)	88 (17)	22 (6)	39 (2)
99Y529	L	9480 (3)	17.2 (14)	5.0 (8)	86 (12)	2 (2)	42 (15)
M-204	M	8970 (4)	20.7 (9)	5.0 (1)	86 (13)	50 (8)	40 (5)
01Y327	SPQ	8940 (5)	21.3 (7)	5.0 (8)	82 (6)	75 (10)	40 (8)
01Y655	REX	8860 (6)	17.0 (16)	5.0 (8)	87 (14)	20 (5)	42 (15)
M-202	M	8800 (7)	23.0 (2)	5.0 (1)	84 (9)	99 (16)	42 (13)
99Y041	L	8560 (8)	18.3 (13)	5.0 (1)	85 (11)	61 (9)	42 (15)
L-204	L	8490 (9)	16.8 (18)	5.0 (1)	85 (10)	3 (3)	40 (8)
L-205	REX	8330 (10)	16.4 (19)	5.0 (8)	90 (18)	9 (4)	40 (5)
00Y805	M	8190 (11)	18.9 (11)	5.0 (8)	81 (3)	92 (11)	42 (19)
M-206	M	8020 (12)	22.9 (3)	5.0 (1)	81 (3)	97 (12)	42 (15)
01Y314	MPQ	7980 (13)	22.8 (4)	5.0 (16)	84 (8)	97 (12)	41 (11)
02Y346	SPQ	7700 (14)	21.7 (6)	5.0 (8)	81 (5)	98 (14)	40 (5)
CT-201	BAS	7630 (15)	17.1 (15)	5.0 (16)	94 (19)	1 (1)	41 (12)
S102	S	7430 (16)	16.9 (17)	5.0 (1)	74 (1)	99 (16)	40 (10)
CH201	SPQ	7420 (17)	18.9 (12)	5.0 (8)	88 (15)	98 (14)	39 (1)
CM101	WX	6610 (18)	21.0 (8)	4.9 (18)	76 (2)	99 (16)	42 (13)
BL-1	S	6260 (19)	19.6 (10)	3.9 (19)	83 (7)	99 (16)	39 (2)
MEAN		8270	19.8	4.9	84	61	41
CV		5	5.8	3.2	0.7	34.6	3
LSD (.05)		590	1.6	0.2	1	30	2
<i>Preliminary Lines and Varieties</i>							
02Y461	M	9670 (1)	20.5 (3)	4.8 (23)	88 (27)	28 (21)	39 (16)
02Y413	M	9530 (2)	19.1 (12)	5.0 (11)	84 (14)	95 (30)	39 (11)
02Y823	M	9530 (3)	20.3 (4)	4.8 (23)	89 (29)	1 (1)	38 (3)
02Y458	M	9460 (4)	19.5 (9)	5.0 (11)	84 (14)	50 (24)	37 (1)
02Y466	M	9430 (5)	19.7 (7)	4.9 (20)	86 (23)	8 (18)	38 (3)
02Y565	SR	9400 (6)	16.4 (27)	4.7 (30)	88 (27)	1 (1)	41 (30)
02Y412	M	9290 (7)	19.2 (11)	5.0 (11)	83 (9)	48 (23)	39 (16)
02Y273	M	9210 (8)	19.5 (8)	4.8 (23)	84 (12)	1 (1)	40 (23)
01Y502	LSR	9200 (9)	15.8 (28)	4.9 (20)	85 (18)	1 (1)	38 (8)
02 P2644	REX	9100 (10)	16.9 (26)	5.0 (1)	90 (32)	1 (1)	39 (16)
02Y662	M	9020 (11)	18.9 (13)	5.0 (1)	85 (18)	1 (1)	38 (3)
02Y459	M	8980 (12)	20.0 (5)	5.0 (1)	85 (20)	1 (1)	38 (8)
02Y838	M	8870 (13)	17.7 (20)	5.0 (1)	81 (6)	88 (26)	41 (27)
00Y506	L	8740 (14)	14.6 (34)	4.8 (23)	89 (31)	1 (1)	40 (21)
02Y366	S	8640 (15)	18.4 (16)	5.0 (11)	76 (1)	95 (30)	40 (23)
01Y110	REX	8510 (16)	15.2 (31)	5.0 (1)	84 (12)	16 (19)	40 (23)
02Y275	M	8450 (17)	18.3 (17)	5.0 (1)	79 (3)	62 (25)	40 (21)
00Y292	MPQ	8450 (18)	17.4 (23)	4.7 (30)	76 (1)	99 (32)	44 (34)
02Y293	M	8330 (19)	18.8 (14)	5.0 (1)	83 (9)	1 (1)	37 (1)
02Y111	SR	8330 (20)	17.0 (24)	5.0 (11)	89 (29)	1 (1)	39 (11)
02Y577	L	8310 (21)	14.9 (33)	4.7 (30)	84 (14)	1 (1)	41 (27)
02Y246	M	8290 (22)	17.5 (21)	4.8 (23)	83 (9)	3 (17)	39 (16)
02Y333	MPQ	8260 (23)	17.8 (18)	5.0 (1)	84 (14)	1 (1)	39 (11)
02Y898	M	8130 (24)	17.8 (19)	5.0 (1)	85 (20)	1 (1)	40 (23)
02Y308	MPQ	8050 (25)	21.2 (1)	5.0 (11)	82 (7)	99 (32)	39 (16)
00Y342	BG	8040 (26)	19.3 (10)	5.0 (11)	81 (4)	90 (29)	43 (31)
02Y311	MPQ	7750 (27)	20.6 (2)	4.7 (30)	86 (23)	88 (26)	39 (11)
01Y345	BG	7590 (28)	19.8 (6)	5.0 (1)	82 (7)	43 (22)	38 (3)
01 51493	BAS	7360 (29)	14.9 (32)	5.0 (11)	92 (33)	1 (1)	41 (27)
02Y343	SPQ	7340 (30)	17.5 (22)	4.8 (23)	87 (25)	99 (32)	38 (3)
01Y489	BAS	6770 (31)	15.7 (29)	4.9 (20)	81 (4)	16 (19)	43 (31)
BL-2	SPQ	6710 (32)	18.8 (15)	3.8 (34)	86 (22)	90 (28)	39 (11)
9843561	BAS	6520 (33)	17.0 (25)	4.8 (23)	87 (25)	1 (1)	44 (33)
01 51577	BAS	5960 (34)	15.6 (30)	5.0 (11)	97 (34)	1 (1)	38 (8)
MEAN		8390	18	4.9	85	33	39
CV		5.5	4.5	4.8	0.9	51.4	3.5
LSD (.05)		940	1.7	0.5	1	35	3

Planting date: May 11 Harvest date: September 30.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy;

REX = Newrex; SR = stem rot resistant; BG = bold grain.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 13. 2003 Early Rice Variety Test - Yuba County

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y314	MPQ	9070 (1)	22.3 (2)	5.0 (1)	79 (12)	2 (11)	38 (10)
01Y655	REX	9050 (2)	15.8 (18)	4.9 (14)	80 (17)	1 (1)	40 (17)
99Y041	L	8840 (3)	17.0 (13)	4.9 (18)	79 (10)	30 (17)	39 (14)
M-205	M	8630 (4)	21.3 (5)	5.0 (1)	79 (12)	1 (1)	38 (9)
01Y327	SPQ	8470 (5)	19.6 (9)	5.0 (1)	77 (7)	5 (12)	37 (7)
01Y617	M	8460 (6)	22.2 (3)	5.0 (13)	82 (19)	1 (1)	37 (7)
S102	S	8280 (7)	16.7 (14)	4.9 (14)	69 (1)	7 (14)	39 (13)
M-206	M	8130 (8)	21.4 (4)	5.0 (1)	73 (4)	1 (1)	38 (10)
CH201	SPQ	8020 (9)	19.1 (11)	5.0 (1)	79 (12)	17 (15)	36 (4)
M-202	M	7940 (10)	20.8 (7)	5.0 (1)	79 (11)	6 (13)	40 (17)
CM101	WX	7930 (11)	17.5 (12)	5.0 (1)	71 (2)	43 (19)	38 (12)
L-204	L	7850 (12)	16.4 (16)	4.9 (14)	76 (6)	1 (1)	35 (1)
M-204	M	7830 (13)	21.1 (6)	5.0 (1)	79 (12)	1 (1)	37 (6)
00Y805	M	7790 (14)	19.5 (10)	5.0 (1)	72 (3)	1 (1)	39 (14)
L-205	REX	7550 (15)	15.7 (19)	4.9 (14)	78 (9)	1 (1)	36 (2)
02Y346	SPQ	7460 (16)	24.8 (1)	5.0 (1)	79 (16)	28 (16)	40 (19)
99Y529	L	7390 (17)	16.6 (15)	4.8 (19)	78 (8)	1 (1)	36 (4)
CT-201	BAS	6870 (18)	15.9 (17)	5.0 (1)	81 (18)	1 (1)	40 (16)
BL-1	S	6830 (19)	20.0 (8)	5.0 (1)	75 (5)	34 (18)	36 (2)
MEAN		8020	19.1	5.0	77	9	38
CV		6.1	4.0	1.9	2	169.7	2.4
LSD (.05)		690	1.1		2	23	1

Preliminary Lines and Varieties

02Y366	S	8290 (1)	18.6 (21)	5.0 (24)	74 (2)	1 (1)	39 (22)
02Y565	SR	8230 (2)	17.3 (24)	5.0 (1)	79 (14)	1 (1)	39 (22)
02Y458	M	8130 (3)	22.5 (3)	5.0 (1)	80 (27)	1 (1)	39 (22)
02Y461	M	8130 (4)	21.9 (6)	5.0 (1)	78 (10)	1 (1)	38 (20)
02 P2644	REX	8130 (5)	15.9 (33)	4.9 (27)	79 (17)	1 (1)	37 (16)
01Y345	BG	8060 (6)	20.1 (16)	5.0 (1)	80 (22)	1 (1)	39 (22)
01Y110	REX	7930 (7)	15.9 (34)	5.0 (1)	78 (10)	1 (1)	37 (9)
01Y502	SR	7920 (8)	16.8 (27)	4.8 (34)	79 (17)	1 (1)	35 (2)
02Y412	M	7870 (9)	21.4 (9)	5.0 (1)	79 (17)	1 (1)	37 (16)
02Y459	M	7840 (10)	22.1 (5)	5.0 (1)	79 (17)	1 (1)	36 (7)
02Y823	M	7840 (11)	21.1 (11)	4.9 (27)	82 (33)	1 (1)	37 (9)
00Y292	MPQ	7830 (12)	21.5 (8)	4.9 (25)	76 (8)	99 (33)	40 (30)
02Y577	L	7830 (13)	16.2 (30)	5.0 (1)	76 (6)	1 (1)	39 (22)
02Y413	M	7830 (14)	21.1 (12)	5.0 (1)	74 (2)	1 (1)	37 (9)
02Y838	M	7810 (15)	19.2 (19)	5.0 (1)	76 (6)	1 (1)	37 (9)
02Y308	MPQ	7800 (16)	24.8 (1)	5.0 (1)	79 (17)	97 (32)	39 (22)
02Y343	SPQ	7780 (17)	21.6 (7)	5.0 (1)	80 (22)	99 (33)	36 (7)
00Y506	L	7770 (18)	16.0 (32)	5.0 (1)	80 (27)	1 (1)	36 (5)
02Y466	M	7680 (19)	19.5 (17)	5.0 (1)	81 (32)	1 (1)	34 (1)
02Y662	M	7580 (20)	20.5 (14)	5.0 (1)	80 (27)	1 (1)	37 (9)
02Y311	MPQ	7510 (21)	23.1 (2)	4.9 (27)	80 (22)	63 (30)	39 (22)
BL-2	SPQ	7480 (22)	21.3 (10)	5.0 (1)	80 (22)	65 (31)	38 (18)
02Y111	SR	7440 (23)	16.8 (26)	4.9 (27)	80 (27)	1 (1)	37 (9)
02Y898	M	7320 (24)	18.6 (22)	5.0 (1)	79 (14)	1 (1)	38 (18)
02Y273	M	7220 (25)	22.4 (4)	4.9 (25)	79 (14)	1 (1)	36 (5)
02Y333	MPQ	7190 (26)	20.8 (13)	5.0 (1)	91 (34)	1 (1)	40 (31)
02Y275	M	7070 (27)	19.5 (18)	5.0 (1)	75 (4)	1 (1)	37 (9)
00Y342	BG	6960 (28)	18.9 (20)	4.9 (27)	78 (13)	1 (1)	39 (29)
02Y293	M	6750 (29)	20.3 (15)	4.9 (27)	78 (10)	1 (1)	35 (2)
9843561	BAS	6480 (30)	16.7 (28)	4.9 (27)	76 (8)	1 (1)	42 (34)
02Y246	M	6370 (31)	17.9 (23)	5.0 (1)	73 (1)	1 (1)	35 (2)
01 51493	BAS	6310 (32)	16.1 (31)	5.0 (1)	80 (27)	1 (1)	40 (31)
01Y489	BAS	6010 (33)	16.4 (29)	5.0 (1)	75 (4)	1 (1)	41 (33)
01 51577	BAS	5270 (34)	17.1 (25)	5.0 (1)	80 (22)	1 (1)	38 (20)
MEAN		7460	19.4	5.0	78	13	37
CV		5.5	3.8	2.3	1.8	88	2.9
LSD (.05)		840	1.5		3	24	2

Planting date: May 26 Harvest date: October 7.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant; BG = bold grain.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 14. 2003 Early Rice Variety Tests - Four Location Yield (lb/ac @ 14% moisture) Summary

<i>Advanced Lines ε</i>						
Variety	Grain Type	Average	Biggs (RES)	Butte Thompson	Colusa Canal Ranch	Yuba Quad 4
01Y617	M	9240 (1)	10090 (2)	8570 (1)	9850 (1)	8460 (6)
M-205	M	9130 (2)	9860 (5)	8460 (2)	9570 (2)	8630 (4)
01Y327	SPQ	9080 (3)	10830 (1)	8070 (5)	8940 (5)	8470 (5)
01Y655	REX	8900 (4)	9900 (4)	7800 (10)	8860 (6)	9050 (2)
99Y041	L	8820 (5)	9500 (6)	8370 (3)	8560 (8)	8840 (3)
99Y529	L	8720 (6)	9970 (3)	8030 (8)	9480 (3)	7390 (17)
M-204	M	8560 (7)	9280 (12)	8140 (4)	8970 (4)	7830 (13)
01Y314	MPQ	8520 (8)	9440 (8)	7570 (12)	7980 (13)	9070 (1)
00Y805	M	8360 (9)	9480 (7)	7970 (9)	8190 (11)	7790 (14)
S102	S	8290 (10)	9390 (10)	8060 (6)	7430 (16)	8280 (7)
L-204	L	8250 (11)	9410 (9)	7240 (15)	8490 (9)	7850 (12)
M-202	M	8210 (12)	8530 (13)	7580 (11)	8800 (7)	7940 (10)
L-205	REX	8190 (13)	9290 (11)	7570 (13)	8330 (10)	7550 (15)
M-206	M	8130 (14)	8320 (14)	8050 (7)	8020 (12)	8130 (8)
02Y346	SPQ	7610 (15)	7920 (16)	7350 (14)	7700 (14)	7460 (16)
CH201	SPQ	7500 (16)	8310 (15)	6240 (17)	7420 (17)	8020 (9)
CM101	WX	7330 (17)	7900 (18)	6880 (16)	6610 (18)	7930 (11)
CT-201	BAS	7060 (18)	7910 (17)	5830 (18)	7630 (15)	6870 (18)
BL-1	S	6530 (19)	7250 (19)	5790 (19)	6260 (19)	6830 (19)
MEAN		8230	9080	7560	8270	8020
CV		6.1	7.9	3.8	5	6.1
LSD (.05)		350	1020	410	590	690
<i>Preliminary Lines and Varieties</i>						
02Y565	SR	9080 (1)	10170 (4)	8500 (4)	9400 (6)	8230 (2)
02Y412	M	8950 (2)	10060 (5)	8580 (2)	9290 (7)	7870 (9)
01Y502	SR	8940 (3)	10700 (3)	7960 (13)	9200 (9)	7920 (8)
02Y413	M	8880 (4)	9660 (9)	8520 (3)	9530 (2)	7830 (14)
02Y461	M	8870 (5)	9390 (17)	8280 (9)	9670 (1)	8130 (4)
02Y466	M	8810 (6)	9650 (10)	8460 (6)	9430 (5)	7680 (19)
02Y366	S	8790 (7)	9860 (7)	8350 (7)	8640 (15)	8290 (1)
02Y823	M	8780 (8)	9560 (12)	8210 (10)	9530 (3)	7840 (11)
02 P2644	REX	8760 (9)	10850 (1)	6970 (24)	9100 (10)	8130 (5)
02Y458	M	8710 (10)	9420 (16)	7820 (15)	9460 (4)	8130 (3)
01Y110	REX	8710 (11)	10710 (2)	7680 (16)	8510 (16)	7930 (7)
02Y459	M	8670 (12)	9560 (11)	8290 (8)	8980 (12)	7840 (10)
02Y662	M	8650 (13)	10030 (6)	7980 (12)	9020 (11)	7580 (20)
02Y273	M	8600 (14)	9230 (19)	8740 (1)	9210 (8)	7220 (25)
02Y838	M	8460 (15)	9540 (13)	7650 (17)	8870 (13)	7810 (15)
00Y506	L	8440 (16)	9810 (8)	7420 (20)	8740 (14)	7770 (18)
01Y345	BG	8320 (17)	9140 (20)	8490 (5)	7590 (28)	8060 (6)
02Y275	M	8160 (18)	9050 (23)	8080 (11)	8450 (17)	7070 (27)
02Y293	M	8120 (19)	9500 (14)	7900 (14)	8330 (19)	6750 (29)
02Y333	MPQ	8080 (20)	9470 (15)	7400 (21)	8260 (23)	7190 (26)
02Y577	L	7920 (21)	9110 (21)	6440 (28)	8310 (21)	7830 (13)
00Y342	BG	7890 (22)	9290 (18)	7290 (23)	8040 (26)	6960 (28)
02Y111	SR	7890 (23)	9070 (22)	6710 (27)	8330 (20)	7440 (23)
02Y308	MPQ	7820 (24)	7820 (28)	7620 (18)	8050 (25)	7800 (16)
02Y898	M	7790 (25)	8820 (25)	6910 (26)	8130 (24)	7320 (24)
02Y246	M	7760 (26)	8950 (24)	7440 (19)	8290 (22)	6370 (31)
00Y292	MPQ	7740 (27)	7290 (32)	7390 (22)	8450 (18)	7830 (12)
02Y311	MPQ	7660 (28)	8430 (26)	6970 (25)	7750 (27)	7510 (21)
02Y343	SPQ	7200 (29)	7770 (30)	5900 (30)	7340 (30)	7780 (17)
01 51493	BAS	7020 (30)	8200 (27)	6190 (29)	7360 (29)	6310 (32)
BL-2	SPQ	6840 (31)	7810 (29)	5350 (32)	6710 (32)	7480 (22)
9843561	BAS	6580 (32)	7760 (31)	5530 (31)	6520 (33)	6480 (30)
01Y489	BAS	6270 (33)	7140 (34)	5180 (34)	6770 (31)	6010 (33)
01 51577	BAS	5920 (34)	7170 (33)	5270 (33)	5960 (34)	5270 (34)
MEAN		8090	9120	7400	8390	7460
CV		6.1	7.4	4.7	5.5	5.5
LSD (.05)		480	1370	700	940	840

Planting dates: May 26, May 31 (reps 1&2, 3&4 respectively).

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy;

REX = Newrex; SR = stem rot resistant; BG = bold grain.

Numbers in parentheses indicate relative rank in column.

Table 15. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (1999-2003)

Location	Year	Calhikari					Calmati 201
		201	M-202	M-204	M-205	M-206	
Biggs (RES)	1999	9460	10540	11130	11200	10910	6620
	2000	9020	10140	11200	10870	10740	8490
	2001	9290	9300	9880	10180	9290	8280
	2002	8910	10620	10180	11230	10210	9040
	2003	8310	8530	9280	9860	8320	7910
Location Mean		8998	9826	10334	10668	9894	8068
Butte	1999	3930	6780	6070	4740	7660	-
	2000	7540	7710	8250	9270	8570	6650
	2001	7760	8170	8150	8410	8210	6800
	2002	7930	8530	8850	9060	9010	7390
	2003	6240	7580	8140	8460	8050	5830
Location Mean		6680	7754	7892	7988	8300	6668
Colusa	1999	8220	10550	9780	8260	10460	2680
	2000	7540	9350	10170	10570	8400	6840
	2001	8670	9370	9810	9960	9940	6740
	2002	8080	8840	8950	9690	9170	7710
	2003	7420	8800	8970	9570	8020	7630
Location Mean		7986	9382	9536	9610	9198	6320
Yuba	1999	6310	7920	7100	7130	8420	2420
	2000	8390	9210	9400	9520	9330	6840
	2001	7330	7810	7960	7770	8230	5630
	2002	8230	9040	7520	8220	9510	6790
	2003	8020	7940	7830	8630	8130	6870
Location Mean		7656	8384	7962	8254	8724	5710
Loc/Years Mean		7830	8837	8931	9130	9029	6693
Yield % M-202		88.6	100	101.1	103.3	102.2	75.7
Number of Tests		20	20	20	20	20	19

Table 16. 2003 Intermediate/Late Rice Variety Test - Biggs (RES)

<i>Advanced Lines and Varieties</i>						
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y401	M	11070 (1)	4.6 (12)	83 (7)	23 (5)	37 (4)
01Y501	SR	10620 (2)	4.7 (8)	79 (2)	1 (3)	37 (6)
99Y158	SR	10610 (3)	4.6 (12)	83 (6)	34 (7)	38 (11)
L-205	REX	10580 (4)	4.6 (10)	81 (4)	51 (10)	36 (2)
94Y663	L	10380 (5)	4.6 (11)	83 (7)	1 (1)	34 (1)
01Y567	SPQ	9910 (6)	4.7 (9)	90 (12)	39 (8)	37 (4)
M-205	M	9850 (7)	4.8 (4)	85 (9)	71 (11)	38 (9)
02Y705	REX	9020 (8)	4.8 (4)	85 (10)	8 (4)	38 (10)
00Y578	SR	8910 (9)	4.5 (14)	92 (13)	1 (1)	36 (3)
M-202	M	8650 (10)	4.8 (2)	80 (3)	94 (14)	39 (13)
01Y320	MPQ	8370 (11)	4.8 (3)	78 (1)	89 (13)	37 (7)
CH-201	SPQ	8170 (12)	5.0 (1)	81 (4)	87 (12)	37 (7)
M-402	MPQ	8130 (13)	4.8 (4)	98 (14)	39 (9)	40 (14)
CT-201	BAS	7670 (14)	4.8 (4)	85 (10)	28 (6)	39 (12)
MEAN		9420	4.7	84	40	37
CV		10.3	2.7	3.1	51.8	3.8
LSD (.05)		1380	0.2	4	30	2
<i>Preliminary Lines and Varieties</i>						
02Y289	M	10790 (1)	4.7 (13)	83 (13)	45 (7)	39 (15)
99Y494	WX	10790 (2)	4.8 (5)	86 (18)	8 (2)	35 (1)
02Y382	M	10620 (3)	4.5 (20)	80 (5)	48 (9)	38 (10)
99Y529	L	10570 (4)	4.7 (13)	80 (7)	18 (4)	37 (7)
02P2900	REX	10160 (5)	5.0 (2)	81 (11)	3 (1)	35 (1)
02Y638	SR	10150 (6)	4.7 (18)	85 (16)	17 (3)	37 (9)
02Y394	M	9860 (7)	4.7 (13)	85 (16)	55 (12)	38 (14)
02Y689	M	9750 (8)	4.6 (19)	82 (12)	61 (15)	35 (1)
02Y465	M	9670 (9)	4.7 (13)	80 (7)	45 (7)	39 (17)
02Y656	M	9560 (10)	4.7 (13)	81 (9)	56 (14)	36 (5)
02Y885	M	9470 (11)	4.8 (7)	78 (2)	55 (12)	35 (1)
02Y376	M	9470 (12)	4.8 (9)	80 (6)	39 (6)	36 (5)
02Y836	M	8860 (13)	4.8 (5)	81 (10)	91 (17)	39 (15)
02Y449	M	8650 (14)	4.7 (12)	84 (14)	54 (11)	38 (10)
02Y305	MPQ	8110 (15)	4.8 (7)	79 (3)	96 (18)	41 (20)
02Y313	MPQ	7760 (16)	4.9 (3)	84 (14)	96 (18)	40 (19)
9843475	BAS	7340 (17)	4.7 (11)	77 (1)	61 (15)	40 (18)
01-262	SPQ	7240 (18)	5.0 (1)	79 (4)	97 (20)	38 (10)
02Y720	BAS	6620 (19)	4.8 (9)	86 (19)	48 (9)	38 (10)
9844473	BAS	6040 (20)	4.9 (4)	88 (20)	18 (4)	37 (7)
MEAN		9070	4.7	82	50	37
CV		6.5	3.3	1.6	32.2	3.2
LSD (.05)		1240		3	34	3

Planting dates: May 26, May 31 (reps 1&2, 3&4 respectively).

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 17. 2003 Intermediate/Late Rice Variety Test - Glenn Co.

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
01Y567	SPQ	8540 (1)	15.0 (2)	4.7 (12)	88 (11)	10 (10)	36 (2)
00Y578	SR	8530 (2)	14.2 (3)	4.1 (14)	90 (13)	1 (1)	39 (8)
94Y663	L	8520 (3)	12.3 (14)	4.7 (11)	87 (8)	2 (2)	38 (5)
01Y501	SR	8130 (4)	12.9 (9)	4.9 (8)	85 (6)	4 (4)	38 (5)
M-205	M	8110 (5)	14.0 (5)	5.0 (7)	89 (12)	14 (11)	39 (9)
01Y401	M	8000 (6)	13.7 (6)	4.8 (10)	88 (10)	8 (8)	40 (11)
99Y158	SR	7670 (7)	12.7 (13)	4.4 (13)	80 (1)	3 (3)	38 (5)
01Y320	MPQ	7550 (8)	13.4 (7)	4.9 (9)	81 (2)	88 (14)	37 (3)
M-402	MPQ	7540 (9)	18.2 (1)	5.0 (5)	98 (14)	5 (7)	40 (13)
L-205	REX	7170 (10)	12.9 (11)	5.0 (1)	82 (3)	4 (4)	37 (3)
CT-201	BAS	6950 (11)	12.7 (12)	5.0 (1)	87 (9)	9 (9)	44 (14)
M-202	M	6560 (12)	13.3 (8)	5.0 (5)	86 (7)	60 (13)	40 (12)
CH-201	SPQ	6260 (13)	14.1 (4)	5.0 (1)	85 (4)	58 (12)	35 (1)
02Y705	REX	6090 (14)	12.9 (10)	5.0 (1)	85 (4)	4 (4)	39 (9)
MEAN		7580	13.7	4.8	86	19	38
CV		5.3	2.8	3.6	1	49.8	3.3
LSD (.05)		570	0.5	0.2	1	14	2

Preliminary Lines and Varieties

02Y638	SR	8780 (1)	13.0 (14)	4.8 (9)	85 (5)	3 (4)	38 (7)
02Y382	M	8610 (2)	13.1 (13)	4.7 (15)	86 (9)	13 (9)	39 (13)
02Y689	M	8420 (3)	13.5 (10)	4.5 (18)	88 (17)	35 (14)	37 (4)
02Y394	M	8390 (4)	14.1 (3)	4.8 (9)	90 (19)	36 (15)	38 (7)
02Y376	M	8360 (5)	12.9 (16)	5.0 (5)	85 (6)	25 (12)	36 (1)
02Y836	M	8330 (6)	13.9 (4)	5.0 (1)	86 (9)	65 (17)	41 (18)
02Y289	M	8250 (7)	13.8 (7)	4.7 (15)	86 (9)	18 (11)	40 (15)
99Y494	WX	8210 (8)	12.2 (20)	5.0 (5)	86 (9)	3 (4)	39 (10)
99Y529	L	8190 (9)	12.4 (18)	4.8 (9)	85 (6)	3 (4)	40 (15)
02Y449	M	8140 (10)	14.3 (2)	4.8 (9)	88 (16)	45 (16)	39 (10)
02Y656	M	7860 (11)	13.9 (5)	4.7 (15)	87 (14)	8 (8)	38 (9)
02Y465	M	7810 (12)	13.7 (8)	4.5 (18)	85 (6)	13 (10)	37 (4)
02Y885	M	7580 (13)	13.5 (11)	4.8 (9)	83 (3)	5 (7)	36 (1)
02P2900	REX	7490 (14)	12.6 (17)	5.0 (1)	86 (13)	1 (1)	37 (4)
02Y313	MPQ	7490 (15)	13.8 (6)	5.0 (1)	87 (14)	85 (18)	39 (13)
02Y305	MPQ	6990 (16)	13.5 (12)	4.4 (20)	84 (4)	85 (18)	41 (18)
01-262	SPQ	6600 (17)	13.6 (9)	5.0 (5)	80 (1)	88 (20)	36 (3)
02Y720	BAS	6100 (18)	13.0 (15)	5.0 (1)	90 (19)	30 (13)	40 (15)
9843475	BAS	5460 (19)	12.3 (19)	5.0 (5)	81 (2)	1 (1)	42 (20)
9844473	BAS	5260 (20)	14.6 (1)	4.8 (9)	90 (18)	1 (1)	39 (10)
MEAN		7620	13.4	4.8	86	28	38
CV		3.6	4	4.7	1	59.2	3.8
LSD (.05)		570	1.1		2	35	3

Planting date: April 30 Harvest date: October 6.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 18. 2003 Intermediate/Late Rice Variety Test - Sutter Co.

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
M-205	M	10660 (1)	19.9 (4)	4.6 (7)	90 (12)	32 (10)	39 (8)
99Y158	SR	10360 (2)	19.1 (8)	4.5 (10)	80 (1)	15 (8)	39 (8)
01Y567	SPQ	10330 (3)	18.8 (10)	4.8 (4)	87 (8)	49 (12)	38 (4)
01Y401	M	10150 (4)	20.6 (3)	4.3 (11)	87 (10)	2 (5)	39 (8)
M-202	M	9900 (5)	21.7 (2)	4.6 (8)	86 (5)	53 (13)	41 (11)
00Y578	SR	9710 (6)	19.7 (7)	4.1 (14)	86 (5)	1 (1)	38 (6)
01Y501	SR	9620 (7)	19.1 (9)	4.3 (13)	86 (5)	1 (1)	38 (7)
94Y663	L	9420 (8)	18.4 (11)	4.3 (12)	89 (11)	1 (1)	37 (1)
CH-201	SPQ	9270 (9)	19.8 (5)	5.0 (2)	85 (4)	99 (14)	37 (3)
M-402	MPQ	9190 (10)	22.8 (1)	4.9 (3)	91 (13)	11 (7)	41 (11)
02Y705	REX	9170 (11)	18.0 (12)	5.0 (1)	82 (3)	19 (9)	41 (14)
01Y320	MPQ	8980 (12)	19.7 (6)	4.8 (5)	82 (2)	38 (11)	37 (2)
L-205	REX	8900 (13)	17.2 (13)	4.6 (8)	87 (9)	1 (1)	38 (4)
CT-201	BAS	8230 (14)	16.7 (14)	4.7 (6)	96 (14)	2 (5)	41 (11)
MEAN		9560	19.4	4.6	87	23	39
CV		5.6	5.8	5.5	1.4	90.8	3.2
LSD (.05)		770	1.6	0.4	2	30	2

Preliminary Lines and Varieties

02Y382	M	10950 (1)	19.3 (9)	4.8 (8)	84 (7)	1 (1)	40 (13)
02Y394	M	10650 (2)	20.6 (3)	4.4 (18)	90 (19)	21 (18)	39 (9)
02Y449	M	10580 (3)	18.6 (13)	5.0 (6)	87 (15)	8 (15)	40 (13)
02Y289	M	10290 (4)	19.4 (7)	5.0 (1)	85 (14)	1 (1)	41 (18)
02Y376	M	10120 (5)	19.1 (11)	4.7 (12)	84 (7)	3 (9)	39 (9)
02Y656	M	9900 (6)	20.4 (4)	4.4 (17)	85 (12)	3 (9)	38 (7)
99Y494	WX	9870 (7)	16.5 (19)	4.8 (8)	85 (12)	3 (9)	38 (7)
02Y836	M	9830 (8)	18.9 (12)	5.0 (1)	84 (10)	13 (16)	39 (9)
02Y465	M	9830 (9)	19.3 (8)	5.0 (1)	84 (7)	3 (9)	40 (13)
02P2900	REX	9820 (10)	16.5 (18)	5.0 (1)	82 (4)	3 (9)	37 (4)
02Y885	M	9650 (11)	20.0 (5)	4.0 (20)	82 (4)	3 (9)	37 (2)
02Y689	M	9450 (12)	21.6 (2)	4.5 (15)	88 (17)	1 (1)	37 (4)
02Y638	SR	9360 (13)	16.9 (14)	4.5 (15)	79 (2)	1 (1)	36 (1)
99Y529	L	9350 (14)	16.6 (17)	4.7 (13)	84 (10)	1 (1)	40 (17)
02Y305	MPQ	9180 (15)	21.8 (1)	4.7 (13)	82 (4)	53 (19)	41 (18)
02Y313	MPQ	8950 (16)	19.5 (6)	4.2 (19)	87 (15)	16 (17)	39 (9)
01-262	SPQ	8940 (17)	19.2 (10)	5.0 (1)	80 (3)	99 (20)	40 (13)
9843475	BAS	7670 (18)	16.6 (16)	4.8 (8)	78 (1)	1 (1)	43 (20)
02Y720	BAS	7220 (19)	16.9 (15)	4.8 (8)	90 (20)	1 (1)	37 (4)
9844473	BAS	6760 (20)	16.4 (20)	5.0 (6)	88 (17)	1 (1)	37 (2)
MEAN		9420	18.7	4.7	84	12	39
CV		6.5	3.7	6	1.3	94.7	3.9
LSD (.05)		1280	1.4	0.6	2	23	3

Planting date: May 20 Harvest date: September 26.

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; SR = stem rot resistant.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Table 19. 2003 Intermediate/Late Rice Variety Tests - Three Location Yield
(lb/ac @ 14% moisture) Summary

Advanced Lines and Varieties

Variety	Grain Type	Average	Biggs (RES)	Glenn Wylie	Sutter Akin
01Y401	M	9740 (1)	11070 (1)	8000 (6)	10150 (4)
01Y567	SPQ	9590 (2)	9910 (6)	8540 (1)	10330 (3)
99Y158	SR	9550 (3)	10610 (3)	7670 (7)	10360 (2)
M-205	M	9540 (4)	9850 (7)	8110 (5)	10660 (1)
01Y501	SR	9460 (5)	10620 (2)	8130 (4)	9620 (7)
94Y663	L	9440 (6)	10380 (5)	8520 (3)	9420 (8)
00Y578	SR	9050 (7)	8910 (9)	8530 (2)	9710 (6)
L-205	REX	8880 (8)	10580 (4)	7170 (10)	8900 (13)
M-202	M	8370 (9)	8650 (10)	6560 (12)	9900 (5)
01Y320	MPQ	8300 (10)	8370 (11)	7550 (8)	8980 (12)
M-402	MPQ	8280 (11)	8130 (13)	7540 (9)	9190 (10)
02Y705	REX	8090 (12)	9020 (8)	6090 (14)	9170 (11)
CH-201	SPQ	7900 (13)	8170 (12)	6260 (13)	9270 (9)
CT-201	BAS	7620 (14)	7670 (14)	6950 (11)	8230 (14)
MEAN		8870	9420	7580	9560
CV		7.7	10.3	5.3	5.6
LSD (.05)		550	1380	570	770

Preliminary Lines and Varieties

02Y382	M	10060 (1)	10620 (3)	8610 (2)	10950 (1)
02Y289	M	9780 (2)	10790 (1)	8250 (7)	10290 (4)
02Y394	M	9630 (3)	9860 (7)	8390 (4)	10650 (2)
99Y494	LW	9620 (4)	10790 (2)	8210 (8)	9870 (7)
02Y638	SR	9430 (5)	10150 (6)	8780 (1)	9360 (13)
99Y529	L	9370 (6)	10570 (4)	8190 (9)	9350 (14)
02Y376	M	9320 (7)	9470 (12)	8360 (5)	10120 (5)
02Y689	M	9210 (8)	9750 (8)	8420 (3)	9450 (12)
02P2900	REX	9160 (9)	10160 (5)	7490 (14)	9820 (10)
02Y449	M	9120 (10)	8650 (14)	8140 (10)	10580 (3)
02Y656	M	9110 (11)	9560 (10)	7860 (11)	9900 (6)
02Y465	M	9100 (12)	9670 (9)	7810 (12)	9830 (9)
02Y836	M	9010 (13)	8860 (13)	8330 (6)	9830 (8)
02Y885	M	8900 (14)	9470 (11)	7580 (13)	9650 (11)
02Y305	MPQ	8090 (15)	8110 (15)	6990 (16)	9180 (15)
02Y313	MPQ	8070 (16)	7760 (16)	7490 (15)	8950 (16)
01-262	SPQ	7590 (17)	7240 (18)	6600 (17)	8940 (17)
9843475	BAS	6820 (18)	7340 (17)	5460 (19)	7670 (18)
02Y720	BAS	6650 (19)	6620 (19)	6100 (18)	7220 (19)
9844473	BAS	6020 (20)	6040 (20)	5260 (20)	6760 (20)
MEAN		8700	9070	7620	9420
CV		5.9	6.5	3.6	6.5
LSD (.05)		600	1240	570	1280

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati;
WX = waxy; REX = Newrex; SR = stem rot resistant.
Numbers in parentheses indicate relative rank in column.

Table 20. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/Late Rice Varieties by Location and Year (1999-2003)

Location	Year	M-205	M-402	M-202
Biggs (RES)	1999*	7830	9270	9170
	2000	11110	9810	10480
	2001	9430	8710	8580
	2002	11600	10800	9970
	2003	10610	8130	8650
Location Mean		10116	9344	9370
Glenn	1999	-	8230	7420
	2000	9630	7800	8490
	2001	9020	8100	7690
	2002	8840	8850	8000
	2003	8110	7540	6560
Location Mean		8900	8104	7632
Yuba	1999	7130	7820	8720
Sutter	2000	9840	9620	9840
Sutter	2001	9870	9390	10240
Sutter	2002	9670	8310	10270
Sutter	2003	10660	9190	9900
Location Mean		9434	8866	9794
Loc/Years Mean		8837	8771	8932
Yield % M-202		98.9	98.2	100
Number of Tests		14	15	15

* 1999 M-205 yield is an average of the Biggs Early and Very Early tests.