



# AGRONOMY PROGRESS REPORT

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## CALIFORNIA RICE VARIETIES

### DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2004 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 2004. 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 resulted in a total of 590,000 harvested acres, a 14% increase compared to the 2003 season. The average yield of 86 cwt/acre was 10% greater than the 2003 average. Spring field preparation and planting conditions were ideal, allowing for 2-3 week earlier planting dates than the 2003 season. Relatively mild summer temperatures delayed maturity and increased days to heading 10-12 days as compared to the 2003 season (Table 2). Average lodging scores were similar to 2003. Harvest conditions were optimal, allowing the bulk of the late-planted rice to be harvested prior to the onset of November rain.

### 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

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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.*** Eight advanced breeding lines and ten commercial varieties were evaluated in Advanced Tests at each of the following locations.

	Date Planted
• Butte County (RES)	5/10,5/27 (Reps 1&2, 3&4 respectively)
• San Joaquin County (Brumley)	4/30
• Sutter County (Lauppe)	4/29
• Yolo County (Erdman)	5/19

Commercial varieties included Calmochi-101, S-102, M-103, M-104, M-202, M-206, L-204, and L-205. Thirty-two 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.*** Ten advanced lines and ten commercial varieties were evaluated in Advanced Tests at each of the following locations.

	Date Planted
• Butte County (RES)	5/10,5/26 (Reps 1&2, 3&4 respectively)
• Butte County (Thompson)	5/18
• Colusa County (Dennis)	4/23
• Yuba County (Quad-4)	4/23

Commercial varieties included Calmochi-101 Calhkari-201, S-102, M-202, M-204, M-205, M-206, Calmati-201, L-204, and L-205. Thirty 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)	5/10,5/27 (Reps 1&2, 3&4 respectively)
• Glenn County (Wiley)	4/16
• Sutter County (Akin)	4/27

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 county plots was 143.4 ft<sup>2</sup> (0.0033acre) and 150 ft<sup>2</sup> (0.0034acre) at the RES. Grain moisture was assessed at harvest and yields were 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. The Yolo site was included in the over-location yield summary but was slightly affected by Abolish herbicide damage. 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 (2000-2004) is found in Table 9.

Grain yields in the advanced tests averaged 9420 lbs/acre at the RES, 9340 at Yolo, 10540 at Sutter, and 8560 at San Joaquin. Over the four locations, the highest yielding commercial variety was M-206 at 9850 lbs/acre (Table 8). Varieties L-204, S-102, M-104, M-202, and L-205 ranked 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 9<sup>th</sup>, and 11<sup>th</sup> respectively and were not significantly different than M-206. Advanced medium grain line 00Y805, CM-101, and M206 were the top three yielding entries at the San Joaquin location.

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. An average of the very early tests, over the last 5 years, shows that M-104, M-202, M-206, Calmochi-101, S-102, L-204, and L-205 yielded 104%, 101%, 106%, 100%, 108%, 101%, and 101% (respectively) of the standard variety M-103.

## **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 9350 lb/acre at the RES, 8750 lb/acre at Butte, 10250 lb/acre at Colusa and 8720 lb/acre at Yuba. M-205 was the overall highest yielding commercial variety at 9910 lb/acre. The highest yielding entry overall was the advanced short grain premium quality line 01Y327. Advanced long grain line 99Y529 yielded second highest overall, highest at Biggs and Colusa, second highest at Butte, and 18<sup>th</sup> at Yuba (a cooler location). Commercial varieties M-202, M-206, and M-204 ranked 6<sup>th</sup>, 7<sup>th</sup>, and 9<sup>th</sup> in over-location yield average. Of the preliminary lines, long-grain entries 01Y502, 03Y406, and 03Y316 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 91%, M-204 102%, M-205 106%, M-206 101%, Calmati-201 82%, and L-205 98% 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 10120 lb/acre at the RES, 9410 lb/acre at Glenn, and 10650 lb/acre at Sutter. The medium-grain cultivar M-205 yielded 6<sup>th</sup> overall at 10410 lb/acre, but was not significantly different than the leading entry (Table 19). The cooler climatic conditions mentioned earlier resulted in reduced yields for the medium-grain premium quality entry M-402, ranking 12<sup>th</sup> at RES, 13<sup>th</sup> at Sutter, and 11<sup>th</sup> overall. In the preliminary tests, long-grain 99Y529 yielded highest overall (11590 lb/acre) and was the highest yielding line at each location.

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, M-402, and L-205 yielded 108%, 98% and 98%, respectively, of M-202 over the last five years.

## **ACKNOWLEDGEMENTS**

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Table 1. Characteristics Of Public California Rice Varieties - 2004

CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2004					
Grain Type	Maturity	Year Seed Widely Available	Stem Rot Score <sup>1</sup>	Seedling Vigor <sup>2</sup>	Comments
<b>Short Grain</b>			(0-10)	(1-5)	
S-102	Very Early <sup>3</sup>	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.
<b>Medium Grains</b>					
M-103	Very Early <sup>3</sup>	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 <sup>3</sup>	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. <b>Not recommended</b> 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. <b>Not recommended</b> 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.
<b>Long Grains</b>					
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.
<b>Premium Quality</b>					
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.
<b>Specialty Rices</b>					
Calmochi-101	Very Early <sup>3,4</sup>	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 <sup>4</sup>	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 <sup>4</sup>	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.
<p><sup>1</sup> Average stem rot score over last five years: 0 = no disease and 10 = severe disease.</p> <p><sup>2</sup> Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling vigor.</p> <p><sup>3</sup> Milling quality and yield may be reduced by early planting in warmer areas.</p> <p><sup>4</sup> Specialty varieties should not be grown unless arrangements have first been made with a marketing agency.</p>					

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Table 2. California Rice Acreage by Variety (2001-2004)<sup>1</sup>

Variety	2001		2002		2003		2004	
	(acres)	(%)	(acres)	(%)	(acres)	(%)	(acres)	(%)
<b>Short Grains</b>								
S-102	7,424	1.58	8,943	1.66	9,071	1.85	7,879	1.33
Akitakomachi	8,438	1.79	5,618	1.04	7,497	1.53	5,404	0.92
Calhikari-201	-	-	-	-	-	-	-	-
Calmochi-101	11,230	2.39	13,869	2.57	15,843	3.23	19,834	3.36
Koshihikari	6,136	1.30	6,320	1.17	4,659	0.95	6,950	1.18
<b>Subtotal</b>	<b>33,228</b>	<b>7.06</b>	<b>34,750</b>	<b>6.43</b>	<b>37,070</b>	<b>7.56</b>	<b>40,067</b>	<b>6.79</b>
<b>Medium Grains</b>								
M-103	8,055	1.71	2,048	0.38	7,756	1.58	822	0.14
M-104	29,199	6.20	41,862	7.75	62,865	12.83	53,964	9.14
M-201	2,440	0.52	1,475	0.27	4,000	0.82	-	-
M-202	232,765	49.43	247,200	45.77	221,883	45.28	274,693	46.54
M-204	62,999	13.38	56,629	10.48	33,261	6.79	29,116	4.93
M-205	37,594	7.98	88,497	16.39	69,635	14.21	92,746	15.71
M-206	NA	NA	NA	NA	591	0.12	30,036	5.09
M-401	29,898	6.35	32,204	5.96	18,607	3.80	33,133	5.61
M-402	5,319	1.13	6,607	1.22	9,466	1.93	4,628	0.78
Kokuhorose	12,176	2.59	14,842	2.75	-	-	-	-
NFD 181	3,061	0.65	3,527	0.65	-	-	-	-
<b>Subtotal</b>	<b>423,506</b>	<b>89.94</b>	<b>494,890</b>	<b>91.63</b>	<b>428,064</b>	<b>87.36</b>	<b>519,138</b>	<b>87.94</b>
<b>Long Grains</b>								
L-204	1,235	0.26	1,200	0.22	1,929	0.39	1,812	0.31
L-205	6,472	1.37	2,099	0.39	1,893	0.39	86	0.01
A-201	799	0.17	1,203	0.22	1,455	0.30	1,002	0.17
A-301	1,700	0.36	1,469	0.27	790	0.16	1,562	0.26
Calmati-201	1,507	0.32	336	0.06	874	0.18	550	0.09
<b>Subtotal</b>	<b>11,713</b>	<b>2.48</b>	<b>6,306</b>	<b>1.17</b>	<b>6,941</b>	<b>1.42</b>	<b>5,012</b>	<b>0.84</b>
Other <sup>2</sup>	2,348	0.50	4,153	0.77	2,235	0.46	26,026	4.43
<b>Total</b>	<b>470,795</b>	<b>100</b>	<b>540,100</b>	<b>100</b>	<b>474,310</b>	<b>96.80</b>	<b>590,243</b>	<b>100.00</b>

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

<sup>2</sup> Other varieties reported include: Short Grains S-201, Calhikari-201, Hitomebore, Surpass, H-4, and 89-Y-235. Medium Grains M-207 & SP 411; Long Grains L-202 and L-203; and proprietary and speciality varieties.

Table 3. 2004 County Weather Data - Daily Maximums and Minimums (°F). Collected by UC IPM - IMPACT and CIMIS

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

Table 3. (Continued)

	Glenn (Willows)		Colusa (colusa)		Yolo (Woodland)		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	89	55	86	53	82	55	84	57	87	56	83	56	86	57
Aug 02	83	55	83	57	79	55	81	56	83	56	79	57	80	55
Aug 03	89	55	89	54	87	53	85	56	92	57	87	55	88	55
Aug 04	90	61	90	60	89	55	87	61	91	55	88	57	90	55
Aug 05	87	55	86	60	89	57	84	60	91	61	87	59	88	58
Aug 06	87	52	89	58	88	54	85	55	92	57	89	56	88	55
Aug 07	96	59	96	57	95	59	92	57	98	59	94	55	94	57
Aug 08	97	61	98	57	98	59	93	59	102	63	97	58	99	58
Aug 09	97	59	97	58	91	56	94	59	100	63	94	59	92	62
Aug 10	98	59	100	54	97	52	95	56	102	60	100	56	95	59
Aug 11	103	64	104	56	103	55	99	57	107	59	103	56	99	58
Aug 12	100	64	100	60	93	60	95	61	104	65	93	61	95	63
Aug 13	96	58	96	60	92	56	92	59	98	60	93	59	91	60
Aug 14	88	60	88	60	81	58	85	59	88	60	82	58	84	59
Aug 15	89	51	87	52	85	51	84	53	94	55	84	55	86	57
Aug 16	93	54	91	55	91	54	89	57	100	60	90	57	91	58
Aug 17	97	61	96	57	95	55	91	58	99	60	95	57	95	58
Aug 18	98	61	97	60	97	58	92	61	99	63	95	58	97	57
Aug 19	97	62	94	61	90	58	92	63	95	62	90	59	94	62
Aug 20	96	58	94	56	93	56	91	58	96	61	92	58	92	60
Aug 21	92	59	94	62	93	56	90	63	95	60	88	59	87	60
Aug 22	84	59	82	60	84	59	80	59	85	60	81	59	82	59
Aug 23	84	50	83	61	84	56	82	61	86	62	82	62	84	58
Aug 24	87	51	87	62	85	61	85	61	88	61	84	61	86	61
Aug 25	86	53	86	60	86	57	84	59	88	60	85	59	86	57
Aug 26	90	53	87	60	87	57	87	60	89	62	85	57	85	60
Aug 27	99	63	95	62	94	66	94	65	86	62	91	57	93	57
Aug 28	101	65	101	55	99	58	93	57	102	60	98	55	99	55
Aug 29	99	62	100	56	98	56	94	60	103	65	98	57	97	59
Aug 30	95	58	96	52	95	56	92	58	99	59	95	57	95	62
Aug 31	94	56	94	54	93	57	91	57	96	61	91	57	93	60
Sep 01	92	59	92	62	92	59	89	58	93	62	90	60	90	59
Sep 02	93	59	90	51	90	55	89	54	91	58	86	56	88	58
Sep 03	89	63	86	64	86	67	87	60	97	62	83	57	85	61
Sep 04	98	60	94	57	95	62	94	56	94	65	89	54	91	56
Sep 05	93	58	94	54	96	57	93	56	98	59	98	54	98	54
Sep 06	94	58	97	55	99	58	94	57	102	62	98	56	98	56
Sep 07	100	58	99	55	100	60	94	60	102	60	101	55	98	55
Sep 08	99	63	99	56	100	58	94	59	103	61	99	57	100	55
Sep 09	97	62	97	54	97	58	94	56	101	62	94	54	97	56
Sep 10	93	55	92	52	92	52	88	56	94	59	92	54	96	52
Sep 11	96	57	95	52	95	51	92	55	99	54	93	50	94	54
Sep 12	90	60	89	64	90	60	86	62	89	64	85	60	87	61
Sep 13	86	52	86	50	86	53	85	54	89	57	86	51	85	57
Sep 14	93	53	89	63	89	60	89	61	86	63	86	51	86	56
Sep 15	97	61	95	64	94	65	95	65	96	58	93	51	91	50
Sep 16	94	62	92	55	91	59	90	58	96	63	92	55	94	58
Sep 17	90	59	90	54	91	55	86	57	88	59	86	53	89	56
Sep 18	76	55	75	52	73	52	74	54	76	57	73	50	70	48
Sep 19	70	51	69	49	67	49	65	52	64	54	64	47	66	46
Sep 20	76	52	75	42	74	44	75	49	76	46	73	41	71	44
Sep 21	86	53	84	50	83	56	83	51	84	50	84	44	79	46
Sep 22	86	47	85	43	85	47	83	46	85	48	83	43	87	48
Sep 23	91	55	89	46	88	55	88	48	91	52	91	46	91	50
Sep 24	93	56	92	47	93	51	89	49	92	59	92	47	91	51
Sep 25	91	53	92	46	91	48	90	49	92	51	89	49	89	51
Sep 26	93	55	91	48	91	47	91	52	95	50	91	46	88	49
Sep 27	89	57	89	47	83	46	88	49	92	46	84	46	82	50
Sep 28	88	47	79	48	77	49	78	50	78	54	75	55	77	54
Sep 29	79	49	91	51	74	50	76	49	78	52	74	51	77	51
Sep 30	88	55	80	47	74	48	79	50	81	50	77	50	76	51
Oct 01	77	51	80	47	77	49	79	52	83	52	79	51	77	53
Oct 02	87	52	86	50	85	49	87	51	88	53	86	49	84	52
Oct 03	88	55	89	52	86	51	90	52	90	53	89	49	85	52
Oct 04	83	55	85	54	81	50	83	58	88	53	84	52	80	54
Oct 05	84	52	86	48	84	47	85	51	88	52	85	47	83	53
Oct 06	85	54	88	50	87	50	88	52	90	53	87	47	87	48
Oct 07	85	53	85	51	85	51	85	54	88	55	86	50	84	54
Oct 08	82	52	86	52	85	52	83	54	84	53	83	52	85	51
Oct 09	73	51	76	53	77	56	74	54	76	55	76	51	75	53
Oct 10	79	61	81	61	82	62	81	58	82	61	81	58	81	50
Oct 11	83	64	86	60	88	59	84	52	88	58	88	43	82	43
Oct 12	90	57	92	55	92	54	90	55	91	55	90	43	88	47
Oct 13	92	67	95	56	94	54	93	57	95	62	94	49	89	49
Oct 14	84	54	82	49	78	51	81	52	79	55	76	48	88	50
Oct 15	84	49	85	44	83	47	85	44	86	50	83	44	80	50
Oct 16	72	47	76	53	71	49	73	47	75	53	72	52	73	53
Oct 17	70	48	71	45	69	50	68	50	69	53	70	50	73	53
Oct 18	61	45	62	49	65	45	62	49	63	47	65	47	66	48
Oct 19	58	51	58	51	58	51	58	52	57	50	58	51	59	53
Oct 20	55	46	59	43	62	47	58	43	62	49	63	44	65	49
Oct 21	69	40	67	38	67	42	67	40	68	42	67	39	65	45
Oct 22	64	43	67	47	65	44	65	42	65	39	67	44	69	42
Oct 23	57	53	61	52	57	54	59	53	56	54	58	55	63	48
Oct 24	66	43	67	45	66	47	68	45	65	52	67	44	65	47
Oct 25	62	40	65	41	65	43	65	40	64	44	66	42	68	46
Oct 26	59	44	62	45	61	48	59	45	58	47	61	48	58	48
Oct 27	63	41	61	43	61	44	61	40	60	43	60	41	59	40
Oct 28	58	40	59	39	60	41	58	39	56	41	59	39	61	38
Oct 29	65	45	65	44	63	44	65	45	65	43	65	42	64	38
Oct 30	65	41	65	40	68	41	66	39	69	41	68	39	67	39
Oct 31	64	49	65	46	65	50	65	42	71	47	66	40	66	40



Table 4. 2004 Very Early Rice Variety Test - Biggs (RES)

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)				
99Y469	L	10930 (1)	17.6 (15)	4.6 (17)	79 (8)	28 (3)	34 (1)
L-204	L	10830 (2)	18.0 (14)	4.8 (6)	84 (14)	1 (1)	34 (2)
L-205	REX	10350 (3)	18.3 (11)	4.7 (12)	85 (16)	56 (6)	39 (8)
M-206	M	10210 (4)	23.8 (4)	4.8 (9)	80 (10)	43 (5)	41 (15)
02Y505	REX	9920 (5)	18.1 (13)	4.4 (18)	85 (15)	6 (2)	38 (6)
02Y045	L	9870 (6)	18.3 (12)	4.7 (12)	79 (9)	33 (4)	38 (7)
S-102	S	9620 (7)	17.4 (18)	4.9 (2)	77 (4)	92 (11)	42 (18)
01Y185	SPQ	9610 (8)	24.3 (3)	4.9 (2)	82 (12)	93 (12)	40 (12)
M-103	M	9380 (9)	20.5 (6)	4.8 (6)	77 (4)	99 (18)	40 (10)
M-104	M	9380 (10)	20.4 (8)	4.9 (5)	75 (1)	94 (13)	38 (5)
01Y451	REX	9120 (11)	17.4 (16)	4.7 (12)	76 (3)	89 (10)	41 (14)
M-202	M	9050 (12)	25.4 (2)	4.8 (6)	89 (18)	81 (8)	41 (13)
03Y170	SPQ	8910 (13)	18.5 (9)	4.7 (16)	80 (10)	94 (14)	37 (4)
00Y805	M	8820 (14)	20.4 (7)	4.9 (1)	82 (13)	69 (7)	40 (9)
02Y210	WX	8780 (15)	26.3 (1)	4.7 (15)	79 (6)	98 (17)	42 (16)
02Y171	SPQ	8340 (16)	17.4 (16)	4.9 (2)	75 (1)	98 (16)	37 (3)
02Y816	M	8310 (17)	23.1 (5)	4.8 (9)	86 (17)	86 (9)	42 (17)
CM-101	WX	8150 (18)	18.4 (10)	4.8 (11)	79 (6)	96 (15)	40 (10)
MEAN		9420	20.2	4.8	80	70	39
CV		8.4	13.5	2.1	3.5	27.2	3.2
LSD (.05)		1130	3.9	0.1	4	27	2

*Preliminary Lines and Varieties*

02Y516	L	11180 (1)	20.3 (20)	4.4 (32)	82 (24)	16 (6)	40 (22)
02Y519	REX	11080 (2)	19.5 (24)	4.8 (12)	81 (19)	5 (4)	39 (11)
03Y283	M	11020 (3)	22.9 (7)	4.8 (12)	84 (27)	20 (7)	40 (17)
02Y565	LSR	10640 (4)	20.7 (18)	4.7 (25)	88 (32)	1 (1)	38 (4)
03Y467	REX	10610 (5)	16.7 (32)	4.8 (12)	79 (8)	36 (11)	38 (5)
03Y457	REX	10580 (6)	18.3 (27)	4.7 (23)	81 (19)	25 (9)	42 (29)
03Y259	M	10520 (7)	23.3 (4)	4.7 (26)	84 (28)	35 (10)	39 (12)
03Y177	S	10360 (8)	18.2 (28)	4.5 (31)	80 (16)	58 (15)	39 (13)
03Y167	SPQ	10170 (9)	21.5 (13)	4.7 (21)	80 (18)	21 (8)	38 (8)
03Y479	REX	10130 (10)	18.6 (26)	4.9 (7)	85 (30)	1 (2)	37 (1)
03Y454	L	9960 (11)	19.9 (22)	4.6 (29)	83 (26)	1 (3)	38 (6)
03Y878	M	9800 (12)	21.9 (9)	4.8 (12)	83 (25)	85 (23)	39 (15)
03Y166	SPQ	9770 (13)	19.7 (23)	4.7 (21)	79 (13)	44 (12)	37 (3)
03Y804	M	9620 (14)	25.2 (1)	4.9 (4)	78 (7)	80 (22)	41 (23)
03Y235	M	9420 (15)	23.3 (3)	4.8 (18)	81 (21)	54 (13)	40 (18)
03Y164	SPQ	9380 (16)	17.9 (29)	4.7 (23)	81 (23)	55 (14)	37 (2)
03Y270	M	9310 (17)	20.3 (21)	4.6 (28)	79 (13)	89 (26)	41 (23)
03Y253	M	9280 (18)	22.3 (8)	4.6 (29)	79 (10)	76 (20)	41 (23)
03Y249	M	9270 (19)	21.2 (14)	4.9 (1)	79 (8)	68 (17)	39 (14)
03Y231	M	9220 (20)	20.9 (15)	4.8 (18)	77 (3)	73 (19)	41 (26)
03Y183	S	9210 (21)	21.7 (10)	4.7 (26)	81 (22)	86 (24)	40 (19)
02Y172	SPQ	9210 (22)	20.8 (16)	4.9 (7)	85 (30)	61 (16)	40 (19)
03Y254	M	9130 (23)	21.6 (12)	4.8 (11)	78 (4)	89 (26)	41 (27)
03Y485	BAS	8910 (24)	17.9 (30)	4.9 (4)	79 (11)	15 (5)	39 (10)
01Y295	MPQ	8770 (25)	23.2 (5)	4.8 (18)	84 (29)	79 (21)	42 (30)
03Y853	M	8720 (26)	23.8 (2)	4.9 (1)	78 (4)	91 (29)	39 (16)
03Y805	M	8650 (27)	20.4 (19)	4.9 (4)	77 (2)	70 (18)	38 (6)
03Y851	M	8630 (28)	18.6 (25)	4.8 (16)	79 (13)	96 (31)	40 (19)
03Y227	M	8610 (29)	20.8 (16)	4.8 (16)	75 (1)	87 (25)	38 (9)
03Y205	MPQ	8380 (30)	23.0 (6)	4.9 (7)	78 (4)	91 (30)	42 (30)
01Y195	MPQ	8300 (31)	21.7 (11)	4.9 (7)	79 (11)	89 (28)	41 (28)
03Y486	BAS	7550 (32)	17.2 (31)	4.9 (1)	80 (16)	97 (32)	43 (32)
MEAN		9540	20.7	4.8	80	56	40
CV		9.6	6.4	2	3	23.4	3.1
LSD (.05)		1860	2.7	0.2	5	27	3

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. 2004 Very Early Rice Variety Test - Yolo 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)
02Y045	L	10000 (1)	18.7 (9)	3.8 (7)	84 (11)	1 (1)	39 (9)
M-104	M	9980 (2)	19.1 (8)	4.6 (3)	77 (5)	25 (17)	40 (14)
S-102	S	9980 (3)	16.7 (18)	3.9 (5)	76 (1)	24 (16)	39 (8)
M-206	M	9940 (4)	23.0 (1)	3.8 (9)	83 (10)	1 (1)	42 (18)
01Y451	REX	9750 (5)	17.6 (14)	2.5 (14)	83 (9)	1 (1)	39 (9)
02Y816	M	9700 (6)	20.6 (5)	5.0 (1)	89 (17)	1 (1)	41 (16)
02Y210	WX	9570 (7)	21.2 (4)	2.9 (13)	83 (8)	1 (1)	39 (12)
M-202	M	9560 (8)	21.6 (3)	3.4 (10)	85 (12)	6 (14)	41 (16)
02Y171	SPQ	9430 (9)	17.2 (17)	4.9 (2)	77 (3)	34 (18)	38 (5)
L-205	REX	9280 (10)	18.1 (12)	2.5 (14)	89 (16)	1 (1)	39 (12)
02Y505	REX	9110 (11)	17.5 (15)	3.3 (12)	87 (15)	1 (1)	39 (9)
M-103	M	9040 (12)	19.4 (7)	3.8 (7)	77 (3)	11 (15)	38 (6)
00Y805	M	9040 (13)	21.9 (2)	2.4 (16)	86 (14)	1 (1)	40 (15)
L-204	L	9000 (14)	18.3 (11)	2.4 (17)	86 (13)	1 (1)	37 (2)
01Y185	SPQ	8990 (15)	20.0 (6)	3.9 (6)	81 (7)	1 (1)	37 (3)
CM-101	WX	8840 (16)	17.4 (16)	3.4 (10)	77 (2)	1 (1)	39 (7)
03Y170	SPQ	8600 (17)	17.7 (13)	4.2 (4)	78 (6)	1 (1)	37 (3)
99Y469	L	8380 (18)	18.4 (10)	1.7 (18)	90 (18)	1 (1)	34 (1)
MEAN		9340	19.1	3.5	83	6	39
CV		4.6	3.4	19.4	1.3	303.2	3.2
LSD (.05)		610	0.9	1	2		2

*Preliminary Lines and Varieties*

03Y254	M	10190 (1)	18.9 (22)	5.0 (1)	74 (1)	3 (27)	41 (27)
03Y231	M	10000 (2)	19.4 (15)	4.4 (14)	77 (6)	1 (1)	39 (9)
01Y195	MPQ	9920 (3)	19.9 (10)	4.9 (6)	80 (14)	10 (32)	39 (9)
03Y851	M	9840 (4)	19.8 (11)	3.5 (21)	81 (18)	3 (27)	40 (23)
03Y227	M	9820 (5)	20.1 (9)	4.5 (13)	77 (5)	1 (1)	40 (17)
03Y270	M	9820 (6)	19.1 (19)	5.0 (4)	75 (2)	6 (29)	40 (23)
02Y172	SPQ	9730 (7)	20.4 (7)	5.0 (1)	80 (16)	1 (1)	41 (27)
03Y249	M	9670 (8)	19.1 (20)	4.7 (9)	77 (6)	1 (1)	38 (3)
03Y235	M	9480 (9)	18.8 (24)	4.0 (18)	80 (16)	1 (1)	39 (12)
03Y253	M	9410 (10)	18.8 (23)	4.9 (6)	75 (2)	1 (1)	40 (17)
02Y519	REX	9400 (11)	17.3 (28)	4.3 (15)	85 (28)	6 (29)	41 (27)
03Y259	M	9350 (12)	19.5 (13)	4.6 (11)	84 (25)	1 (1)	39 (9)
02Y516	L	9320 (13)	19.4 (16)	2.5 (27)	81 (20)	1 (1)	41 (30)
03Y166	SPQ	9290 (14)	20.6 (5)	4.3 (15)	80 (14)	1 (1)	38 (3)
03Y164	SPQ	9270 (15)	16.2 (29)	4.6 (11)	76 (4)	1 (1)	38 (6)
01Y295	MPQ	9230 (16)	20.9 (4)	4.9 (6)	83 (22)	1 (1)	40 (23)
03Y853	M	9220 (17)	21.3 (2)	3.6 (20)	78 (10)	1 (1)	40 (17)
03Y177	S	9210 (18)	17.7 (26)	3.7 (19)	78 (11)	1 (1)	40 (17)
03Y183	S	9090 (19)	19.2 (17)	2.9 (26)	79 (12)	1 (1)	39 (12)
03Y283	M	9060 (20)	19.0 (21)	5.0 (1)	83 (23)	1 (1)	40 (17)
03Y454	L	9060 (21)	21.1 (3)	1.8 (31)	86 (30)	6 (29)	38 (6)
03Y205	MPQ	9020 (22)	19.1 (18)	3.1 (24)	81 (18)	1 (1)	38 (6)
03Y804	M	8840 (23)	19.5 (14)	3.4 (23)	77 (6)	1 (1)	42 (32)
03Y167	SPQ	8840 (24)	20.4 (7)	4.7 (9)	79 (13)	1 (1)	36 (2)
03Y878	M	8840 (25)	19.8 (12)	5.0 (4)	82 (21)	1 (1)	39 (12)
02Y565	LSR	8750 (26)	20.4 (6)	2.0 (28)	92 (31)	1 (1)	39 (12)
03Y457	REX	8670 (27)	17.6 (27)	2.0 (28)	84 (25)	1 (1)	39 (12)
03Y479	REX	8560 (28)	23.2 (1)	1.8 (31)	94 (32)	1 (1)	40 (17)
03Y467	REX	8460 (29)	15.5 (31)	2.0 (28)	83 (23)	1 (1)	35 (1)
03Y805	M	8080 (30)	18.7 (25)	4.3 (15)	77 (6)	1 (1)	40 (23)
03Y486	BAS	7610 (31)	15.5 (32)	3.0 (25)	85 (29)	1 (1)	41 (30)
03Y485	BAS	7460 (32)	15.8 (30)	3.5 (22)	84 (25)	1 (1)	38 (3)
MEAN		9140	19.1	3.8	81	2	39
CV		4.4	4.5	18.7	1.6	133.8	3
LSD (.05)		830	1.8	1.5	3		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.

\* Trial damaged by Abolish herbicide application.

Table 6. 2004 Very Early Rice Variety Test - Sutter Co.

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)				
02Y210	WX	11370 (1)	19.2 (1)	4.8 (17)	82 (7)	5 (5)	38 (18)
L-204	L	11350 (2)	14.3 (13)	5.0 (1)	86 (14)	1 (1)	34 (1)
M-202	M	11090 (3)	17.6 (3)	5.0 (1)	88 (16)	49 (11)	36 (7)
S-102	S	11050 (4)	15.6 (9)	5.0 (1)	78 (1)	50 (12)	37 (16)
01Y185	SPQ	10960 (5)	17.4 (4)	5.0 (1)	85 (9)	44 (8)	36 (5)
02Y045	L	10830 (6)	14.3 (14)	4.9 (15)	86 (11)	3 (4)	37 (11)
02Y505	REX	10780 (7)	14.4 (12)	4.6 (18)	87 (15)	1 (1)	36 (9)
CM-101	WX	10750 (8)	15.7 (8)	5.0 (1)	78 (1)	61 (13)	37 (11)
01Y451	REX	10670 (9)	12.7 (18)	5.0 (14)	81 (4)	48 (10)	37 (14)
99Y469	L	10650 (10)	13.0 (17)	5.0 (1)	86 (10)	15 (7)	34 (1)
03Y170	SPQ	10430 (11)	15.7 (7)	4.9 (15)	81 (6)	45 (9)	34 (1)
L-205	REX	10400 (12)	14.2 (15)	5.0 (1)	89 (17)	1 (1)	36 (5)
M-104	M	10400 (13)	16.0 (6)	5.0 (1)	83 (8)	82 (15)	36 (9)
M-206	M	10150 (14)	15.3 (11)	5.0 (1)	86 (11)	94 (16)	37 (14)
02Y816	M	10110 (15)	16.2 (5)	5.0 (1)	93 (18)	13 (6)	35 (4)
M-103	M	10110 (16)	17.8 (2)	5.0 (1)	80 (3)	81 (14)	36 (7)
02Y171	SPQ	9520 (17)	15.5 (10)	5.0 (1)	81 (4)	98 (17)	37 (16)
00Y805	M	9070 (18)	13.4 (16)	5.0 (1)	86 (11)	99 (18)	37 (11)
MEAN		10540	15.5	5.0	84	44	36
CV		3.2	6.8	2.8	0.8	37.6	2.4
LSD (.05)		480	1.5	0.2	1	23	1

*Preliminary Lines and Varieties*

03Y183	S	11440 (1)	14.3 (30)	5.0 (1)	82 (7)	51 (15)	36 (7)
03Y177	S	11280 (2)	17.2 (8)	4.9 (21)	81 (4)	80 (23)	36 (7)
03Y164	SPQ	11280 (3)	14.9 (26)	4.9 (21)	80 (2)	50 (14)	35 (5)
03Y235	M	11210 (4)	16.8 (14)	5.0 (1)	87 (27)	78 (19)	37 (15)
03Y254	M	11200 (5)	18.2 (3)	5.0 (1)	81 (5)	53 (16)	38 (23)
03Y253	M	11140 (6)	18.1 (4)	4.6 (30)	82 (7)	83 (25)	37 (18)
02Y516	L	10950 (7)	17.0 (11)	4.4 (32)	84 (17)	1 (1)	40 (32)
03Y467	REX	10910 (8)	13.0 (32)	5.0 (1)	81 (5)	1 (1)	36 (7)
02Y565	LSR	10780 (9)	14.1 (31)	4.9 (21)	91 (31)	1 (1)	35 (5)
03Y457	REX	10720 (10)	15.5 (20)	5.0 (1)	84 (17)	1 (1)	38 (29)
03Y878	M	10700 (11)	17.7 (5)	5.0 (1)	88 (28)	1 (1)	36 (7)
02Y519	REX	10640 (12)	15.3 (22)	4.9 (21)	84 (17)	1 (1)	36 (11)
03Y283	M	10630 (13)	16.9 (12)	5.0 (1)	88 (30)	10 (11)	36 (11)
03Y804	M	10610 (14)	17.4 (6)	5.0 (1)	79 (1)	55 (17)	37 (18)
03Y227	M	10570 (15)	17.1 (10)	5.0 (1)	83 (13)	78 (19)	38 (23)
03Y205	MPQ	10570 (16)	18.7 (2)	4.8 (29)	84 (15)	80 (23)	38 (23)
03Y231	M	10540 (17)	15.0 (24)	5.0 (1)	83 (12)	90 (28)	37 (18)
03Y167	SPQ	10440 (18)	17.2 (9)	5.0 (1)	82 (9)	8 (10)	35 (1)
02Y172	SPQ	10420 (19)	16.4 (16)	5.0 (1)	84 (17)	45 (13)	38 (23)
03Y479	REX	10400 (20)	16.8 (13)	4.6 (30)	93 (32)	1 (1)	35 (1)
03Y853	M	10390 (21)	19.9 (1)	5.0 (1)	84 (17)	28 (12)	37 (15)
03Y805	M	10390 (22)	16.7 (15)	5.0 (1)	80 (2)	88 (26)	38 (29)
03Y166	SPQ	10310 (23)	14.9 (27)	5.0 (1)	82 (9)	78 (19)	35 (1)
03Y249	M	10180 (24)	15.6 (19)	5.0 (1)	82 (9)	95 (29)	37 (15)
01Y295	MPQ	10050 (25)	15.7 (18)	4.9 (21)	87 (26)	97 (31)	38 (29)
03Y259	M	10020 (26)	15.1 (23)	5.0 (1)	85 (22)	88 (26)	35 (1)
03Y270	M	9850 (27)	14.4 (29)	5.0 (1)	84 (15)	95 (30)	37 (18)
03Y454	L	9810 (28)	15.9 (17)	4.9 (21)	88 (28)	1 (1)	36 (11)
03Y851	M	9790 (29)	15.0 (25)	5.0 (1)	86 (23)	99 (32)	38 (23)
01Y195	MPQ	9500 (30)	17.3 (7)	4.9 (21)	86 (23)	70 (18)	38 (23)
03Y486	BAS	9060 (31)	15.4 (21)	4.9 (21)	86 (25)	80 (22)	37 (18)
03Y485	BAS	8510 (32)	14.7 (28)	5.0 (1)	83 (13)	1 (1)	36 (11)
MEAN		10450	16.2	4.9	84	49	36
CV		4.4	4.5	3	1.5	44	3.1
LSD (.05)		940	1.5	0.3	3	44	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 7. 2004 Very Early Rice Variety Test - San Joaquin Co.

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)				
00Y805	M	9270 (1)	17.4 (4)	5.0 (1)	91 (14)	1 (1)	33 (16)
CM-101	WX	9250 (2)	14.7 (13)	5.0 (1)	84 (3)	13 (16)	32 (8)
M-206	M	9110 (3)	18.8 (1)	5.0 (1)	92 (15)	1 (1)	33 (10)
02Y210	WX	9080 (4)	16.3 (8)	4.9 (9)	84 (4)	1 (1)	34 (17)
01Y451	REX	9030 (5)	13.3 (18)	5.0 (1)	83 (2)	1 (1)	33 (11)
M-104	M	8880 (6)	16.7 (7)	5.0 (1)	85 (6)	5 (14)	32 (8)
02Y171	SPQ	8600 (7)	15.1 (11)	4.9 (9)	85 (5)	14 (18)	33 (12)
01Y185	SPQ	8590 (8)	17.6 (3)	4.9 (9)	90 (13)	13 (17)	32 (5)
M-202	M	8530 (9)	18.0 (2)	4.9 (9)	93 (16)	1 (1)	33 (12)
02Y045	L	8490 (10)	15.4 (10)	4.9 (13)	89 (12)	1 (1)	33 (12)
99Y469	L	8440 (11)	14.6 (15)	4.7 (17)	93 (16)	1 (1)	28 (1)
02Y816	M	8350 (12)	17.1 (5)	5.0 (1)	98 (18)	8 (15)	34 (17)
S-102	S	8330 (13)	14.7 (12)	5.0 (7)	80 (1)	1 (1)	33 (12)
M-103	M	8260 (14)	16.7 (6)	5.0 (7)	86 (8)	1 (1)	32 (7)
L-204	L	8190 (15)	14.4 (16)	4.9 (15)	86 (9)	1 (1)	30 (3)
L-205	REX	8050 (16)	14.6 (14)	4.9 (15)	89 (10)	1 (1)	32 (5)
02Y505	REX	7800 (17)	13.8 (17)	4.2 (18)	89 (11)	1 (1)	31 (4)
03Y170	SPQ	7790 (18)	15.6 (9)	4.9 (13)	86 (7)	1 (1)	29 (2)
MEAN		8560	15.8	4.9	88	4	32
CV		5.3	4	2.3	2.6	241.4	4.3
LSD (.05)		650	0.9	0.2	3		2

*Preliminary Lines and Varieties*

01Y195	MPQ	9310 (1)	16.1 (18)	5.0 (1)	83 (3)	8 (31)	31 (10)
03Y183	S	9270 (2)	16.4 (15)	5.0 (1)	87 (19)	18 (32)	31 (18)
02Y565	LSR	9020 (3)	14.9 (25)	5.0 (1)	91 (28)	1 (1)	32 (30)
03Y249	M	8780 (4)	16.9 (6)	5.0 (1)	86 (9)	1 (1)	30 (6)
03Y851	M	8730 (5)	16.0 (20)	5.0 (1)	86 (14)	1 (1)	34 (32)
03Y235	M	8670 (6)	16.8 (9)	5.0 (1)	90 (24)	1 (1)	32 (24)
03Y853	M	8630 (7)	17.0 (5)	5.0 (1)	85 (7)	1 (1)	31 (10)
03Y231	M	8580 (8)	16.7 (11)	5.0 (1)	88 (22)	1 (1)	30 (4)
03Y254	M	8530 (9)	16.5 (13)	5.0 (1)	85 (7)	1 (1)	32 (24)
03Y878	M	8530 (10)	17.1 (4)	5.0 (1)	92 (30)	1 (1)	31 (18)
03Y164	SPQ	8490 (11)	15.3 (24)	5.0 (1)	86 (9)	1 (1)	31 (10)
03Y227	M	8450 (12)	16.7 (11)	5.0 (1)	86 (14)	1 (1)	32 (24)
03Y166	SPQ	8380 (13)	17.8 (1)	4.9 (27)	89 (23)	1 (1)	32 (24)
03Y804	M	8310 (14)	16.8 (8)	5.0 (1)	86 (14)	1 (1)	31 (18)
01Y295	MPQ	8240 (15)	16.5 (14)	5.0 (1)	86 (14)	1 (1)	31 (10)
03Y467	REX	8180 (16)	13.0 (31)	5.0 (1)	84 (5)	1 (1)	30 (6)
03Y270	M	8060 (17)	16.1 (19)	5.0 (1)	86 (14)	1 (1)	31 (10)
02Y519	REX	8050 (18)	13.9 (28)	5.0 (25)	90 (25)	1 (1)	31 (18)
03Y454	L	8030 (19)	13.5 (30)	5.0 (1)	86 (9)	1 (1)	31 (10)
02Y172	SPQ	8000 (20)	17.3 (2)	5.0 (1)	90 (25)	1 (1)	31 (18)
03Y253	M	7810 (21)	16.8 (7)	5.0 (1)	83 (3)	1 (1)	32 (30)
03Y259	M	7780 (22)	16.7 (10)	4.9 (27)	92 (30)	1 (1)	29 (3)
03Y205	MPQ	7780 (23)	15.5 (22)	4.9 (27)	81 (1)	1 (1)	31 (18)
03Y457	REX	7740 (24)	14.5 (26)	5.0 (1)	86 (9)	1 (1)	32 (24)
03Y479	REX	7590 (25)	15.4 (23)	5.0 (1)	99 (32)	1 (1)	27 (1)
02Y516	L	7530 (26)	14.3 (27)	4.6 (31)	85 (6)	1 (1)	32 (24)
03Y167	SPQ	7300 (27)	17.2 (3)	5.0 (1)	88 (21)	1 (1)	28 (2)
03Y283	M	7190 (28)	16.3 (17)	5.0 (1)	92 (29)	1 (1)	30 (6)
03Y805	M	7000 (29)	16.3 (16)	5.0 (25)	86 (9)	1 (1)	30 (4)
03Y177	S	6900 (30)	15.7 (21)	4.5 (32)	82 (2)	1 (1)	31 (10)
03Y486	BAS	6260 (31)	13.7 (29)	5.0 (1)	91 (27)	1 (1)	31 (10)
03Y485	BAS	5840 (32)	13.0 (32)	4.9 (27)	87 (19)	1 (1)	30 (6)
MEAN		8030	15.8	5	87	2	31
CV		10.2	3.2	1.6	2.6	259.6	5.4
LSD (.05)		1680	1	0.2	5		

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. 2004 Very Early Rice Variety Tests - Four Location Yield (lb/ac @ 14% moisture) Summary \*

<i>Advanced Lines and Varieties</i>						
Variety	Grain	Average	Biggs (RES)	Yolo Erdman	Sutter Lauppe	San Joaquin Brumley
	Type					
M-206	M	9850 (1)	10210 (4)	9940 (4)	10150 (14)	9110 (3)
L-204	L	9840 (2)	10830 (2)	9000 (14)	11350 (2)	8190 (15)
02Y045	L	9800 (3)	9870 (6)	10000 (1)	10830 (6)	8490 (10)
S-102	S	9740 (4)	9620 (7)	9980 (3)	11050 (4)	8330 (13)
02Y210	SWX	9700 (5)	8780 (15)	9570 (7)	11370 (1)	9080 (4)
M-104	M	9660 (6)	9380 (10)	9980 (2)	10400 (13)	8880 (6)
01Y451	REX	9640 (7)	9120 (11)	9750 (5)	10670 (9)	9030 (5)
99Y469	L	9600 (8)	10930 (1)	8380 (18)	10650 (10)	8440 (11)
M-202	M	9560 (9)	9050 (12)	9560 (8)	11090 (3)	8530 (9)
01Y185	SPQ	9540 (10)	9610 (8)	8990 (15)	10960 (5)	8590 (8)
L-205	REX	9520 (11)	10350 (3)	9280 (10)	10400 (12)	8050 (16)
02Y505	REX	9400 (12)	9920 (5)	9110 (11)	10780 (7)	7800 (17)
CM101	SWX	9250 (13)	8150 (18)	8840 (16)	10750 (8)	9250 (2)
M-103	M	9200 (14)	9380 (9)	9040 (12)	10110 (16)	8260 (14)
02Y816	M	9120 (15)	8310 (17)	9700 (6)	10110 (15)	8350 (12)
00Y805	M	9050 (16)	8820 (14)	9040 (13)	9070 (18)	9270 (1)
02Y171	SPQ	8970 (17)	8340 (16)	9430 (9)	9520 (17)	8600 (7)
03Y170	SPQ	8930 (18)	8910 (13)	8600 (17)	10430 (11)	7790 (18)
MEAN		9470	9420	9340	10540	8560
CV		5.6	8.4	4.6	3.2	5.3
LSD (.05)		370	1130	610	480	650
<i>Preliminary Lines and Varieties</i>						
02Y565	LSR	9800 (1)	10640 (4)	8750 (26)	10780 (9)	9020 (3)
02Y519	REX	9790 (2)	11080 (2)	9400 (11)	10640 (12)	8050 (18)
03Y254	M	9760 (3)	9130 (23)	10190 (1)	11200 (5)	8530 (9)
03Y183	S	9750 (4)	9210 (21)	9090 (19)	11440 (1)	9270 (2)
02Y516	L	9740 (5)	11180 (1)	9320 (13)	10950 (7)	7530 (26)
03Y235	M	9700 (6)	9420 (15)	9480 (9)	11210 (4)	8670 (6)
03Y164	SPQ	9600 (7)	9380 (16)	9270 (15)	11280 (3)	8490 (11)
03Y231	M	9590 (8)	9220 (20)	10000 (2)	10540 (17)	8580 (8)
03Y467	REX	9540 (9)	10610 (5)	8460 (29)	10910 (8)	8180 (16)
03Y249	M	9480 (10)	9270 (19)	9670 (8)	10180 (24)	8780 (4)
03Y283	M	9470 (11)	11020 (3)	9060 (20)	10630 (13)	7190 (28)
03Y878	M	9470 (12)	9800 (12)	8840 (25)	10700 (11)	8530 (10)
03Y166	SPQ	9440 (13)	9770 (13)	9290 (14)	10310 (23)	8380 (13)
03Y177	S	9440 (14)	10360 (8)	9210 (18)	11280 (2)	6900 (30)
03Y457	REX	9430 (15)	10580 (6)	8670 (27)	10720 (10)	7740 (24)
03Y259	M	9420 (16)	10520 (7)	9350 (12)	10020 (26)	7780 (22)
03Y253	M	9410 (17)	9280 (18)	9410 (10)	11140 (6)	7810 (21)
03Y227	M	9370 (18)	8610 (29)	9820 (5)	10570 (15)	8450 (12)
03Y804	M	9340 (19)	9620 (14)	8840 (23)	10610 (14)	8310 (14)
02Y172	SPQ	9340 (20)	9210 (22)	9730 (7)	10420 (19)	8000 (20)
01Y195	MPQ	9260 (21)	8300 (31)	9920 (3)	9500 (30)	9310 (1)
03Y270	M	9260 (22)	9310 (17)	9820 (6)	9850 (27)	8060 (17)
03Y851	M	9250 (23)	8630 (28)	9840 (4)	9790 (29)	8730 (5)
03Y853	M	9240 (24)	8720 (26)	9220 (17)	10390 (21)	8630 (7)
03Y454	L	9210 (25)	9960 (11)	9060 (21)	9810 (28)	8030 (19)
03Y167	SPQ	9190 (26)	10170 (9)	8840 (24)	10440 (18)	7300 (27)
03Y479	REX	9170 (27)	10130 (10)	8560 (28)	10400 (20)	7590 (25)
01Y295	MPQ	9070 (28)	8770 (25)	9230 (16)	10050 (25)	8240 (15)
03Y205	MPQ	8940 (29)	8380 (30)	9020 (22)	10570 (16)	7780 (23)
03Y805	M	8530 (30)	8650 (27)	8080 (30)	10390 (22)	7000 (29)
03Y485	BAS	7680 (31)	8910 (24)	7460 (32)	8510 (32)	5840 (32)
03Y486	BAS	7620 (32)	7550 (32)	7610 (31)	9060 (31)	6260 (31)
MEAN		9290	9540	9140	10450	8030
CV		7.4	9.6	4.4	4.4	10.2
LSD (.05)		680	1860	830	940	1680

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.

\* The Yolo yields were slightly affected by Abolish herbicide damage.

Table 9. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2000-2004)\*

Location	Year	M-103	M-104	M-202	M-206	Calmochi			
						101	S-102	L-204	L-205
Biggs (RES)	2000	<b>9160</b>	9720	9380	-	8590	9390	9330	10500
	2001	<b>9040</b>	9760	9950	9720	8930	10260	10300	10220
	2002	<b>8740</b>	10170	9710	10670	8890	9910	10120	10910
	2003	<b>6720</b>	7470	7760	7950	8630	10150	9480	9370
	2004	<b>9380</b>	9380	9050	10210	8150	9620	10830	10350
Location Mean		<b>8608</b>	9300	9170	9638	8638	9866	10012	10270
San Joaquin	2000	<b>8065</b>	8640	6977	-	7061	8556	7709	7029
	2001	<b>8452</b>	8787	7333	8661	9487	10126	8107	7636
	2002	<b>9027</b>	9833	9153	9310	8944	9320	8159	7615
	2003	<b>8713</b>	8860	8347	9299	9027	9487	8567	8253
	2004	<b>8260</b>	8880	8530	9110	9250	8330	8190	8050
Location Mean		<b>8503</b>	9000	8068	9095	8754	9164	8146	7717
Sutter	2000	<b>9655</b>	9644	10397	-	9728	10199	9393	9801
	2001	<b>9655</b>	9184	8985	9916	8923	9686	8923	8630
	2002	<b>8692</b>	10063	9351	10324	9425	10408	9268	9467
	2003	<b>9749</b>	8808	8630	8975	7688	8849	8755	9006
	2004	<b>10110</b>	10400	11090	10150	10750	11050	11350	10400
Location Mean		<b>9572</b>	9620	9691	9841	9303	10038	9538	9461
Yolo	2000	<b>10165</b>	10220	10745	-	10723	10799	10034	9815
	2001	<b>10165</b>	10176	9716	9990	10449	10810	9005	8403
	2002	<b>10165</b>	10482	9497	10044	9727	10756	8283	8950
	2003	<b>9530</b>	9716	10230	10176	9279	9902	9399	9880
	2004**	<b>9040</b>	9980	9560	9940	8840	9980	9000	9280
Location Mean		<b>9813</b>	10115	9950	8030	9804	10450	9144	9266
Loc/Years Mean		<b>9124</b>	9509	9220	9653	9125	9879	9210	9178
Yield % M-103		<b>100.0</b>	<b>104.2</b>	<b>101.0</b>	<b>105.8</b>	<b>100.0</b>	<b>108.3</b>	<b>100.9</b>	<b>100.6</b>
Number of Tests		<b>20</b>	20	20	16	20	20	20	20

\* 2000-2003 yields for San Joaquin, Sutter, and Yolo were converted to represent the 2004 harvested plot area of 143.4 square feet.

\*\* Yolo results slightly affected due to Abolish herbicide damage.

Table 10. 2004 Early Rice Variety Test - Biggs (RES)

<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)
99Y529	L	11100 (1)	16.9 (11)	4.6 (20)	84 (8)	8 (3)	39 (7)
01Y327	SPQ	10930 (2)	18.4 (8)	4.8 (11)	88 (19)	49 (5)	39 (8)
03Y113	REX	10570 (3)	18.1 (9)	4.9 (4)	86 (13)	1 (1)	39 (4)
01Y655	REX	10270 (4)	16.5 (12)	4.7 (17)	84 (8)	53 (6)	42 (17)
M-205	M	10270 (5)	19.7 (5)	4.8 (11)	90 (20)	73 (16)	40 (11)
L-205	REX	9810 (6)	15.6 (16)	4.7 (18)	82 (6)	54 (7)	39 (4)
M-206	M	9650 (7)	20.8 (2)	4.8 (7)	78 (3)	64 (9)	41 (16)
99Y041	L	9640 (8)	16.5 (13)	4.8 (16)	86 (13)	71 (15)	42 (17)
M-204	M	9590 (9)	19.3 (6)	4.8 (11)	87 (17)	70 (14)	40 (10)
02Y382	M	9550 (10)	19.0 (7)	4.7 (19)	85 (10)	55 (8)	39 (6)
M-202	M	9500 (11)	20.6 (3)	4.8 (11)	87 (17)	81 (18)	43 (20)
S-102	S	9260 (12)	14.5 (20)	4.9 (4)	76 (1)	64 (9)	41 (14)
00Y805	M	9020 (13)	17.8 (10)	5.0 (2)	80 (4)	96 (20)	41 (12)
L-204	L	9010 (14)	15.9 (15)	4.8 (11)	81 (5)	11 (4)	37 (1)
03Y293	MPQ	8920 (15)	21.4 (1)	4.8 (7)	86 (16)	68 (12)	42 (19)
CT-201	BAS	8500 (16)	15.0 (18)	5.0 (2)	86 (13)	6 (2)	41 (14)
CM-101	WX	8370 (17)	16.1 (14)	4.8 (7)	77 (2)	73 (16)	41 (12)
CH-201	SPQ	8120 (18)	15.4 (17)	5.0 (1)	85 (10)	69 (13)	39 (3)
03Y291	MPQ	7970 (19)	19.8 (4)	4.8 (7)	85 (10)	89 (19)	40 (9)
BL-1	SPQ	7030 (20)	14.6 (19)	4.9 (4)	83 (7)	64 (9)	38 (2)
MEAN		9350	17.6	4.8	84	56	40
CV		8.5	8.6	1.9	2.9	33	3.3
LSD (.05)		1130	2.2	0.1	3	26	2

<i>Preliminary Lines and Varieties</i>							
01Y502	LSR	10980 (1)	17.5 (20)	4.7 (21)	81 (11)	1 (1)	37 (2)
02Y565	LSR	10430 (2)	17.5 (20)	4.7 (24)	85 (22)	1 (1)	38 (9)
01Y110	REX	10360 (3)	17 (24)	4.7 (29)	81 (9)	19 (7)	39 (13)
03Y631	M	10330 (4)	19.7 (3)	4.7 (21)	86 (28)	40 (11)	39 (15)
03Y269	M	10320 (5)	16.8 (25)	4.9 (5)	78 (3)	83 (31)	40 (28)
03Y263	M	10150 (6)	17.7 (16)	4.9 (5)	82 (14)	71 (27)	38 (5)
03Y322	S	10140 (7)	17.3 (22)	4.8 (12)	83 (18)	69 (26)	40 (26)
03Y496	LSR	10110 (8)	18.3 (13)	4.6 (31)	84 (21)	1 (1)	39 (21)
03P2659	REX	10090 (9)	16.6 (27)	4.9 (2)	86 (27)	7 (5)	38 (7)
03Y366	M	10090 (10)	19.6 (4)	4.8 (12)	83 (15)	55 (16)	37 (4)
03Y843	M	9870 (11)	18.4 (11)	4.7 (24)	82 (13)	14 (6)	39 (18)
03Y508	REX	9780 (12)	16.5 (28)	4.7 (24)	86 (29)	6 (4)	36 (1)
03Y406	M	9450 (13)	19.2 (5)	4.7 (21)	81 (10)	56 (18)	39 (18)
03Y316	SPQ	9400 (14)	18.9 (8)	4.8 (12)	85 (25)	50 (14)	40 (24)
03P2666	REX	9380 (15)	17.6 (19)	4.8 (18)	83 (15)	60 (21)	41 (30)
03Y361	M	9380 (16)	18.4 (12)	4.8 (12)	80 (7)	58 (19)	38 (6)
03Y273	M	9260 (17)	21.9 (1)	4.9 (5)	82 (12)	63 (24)	39 (18)
03Y388	M	9240 (18)	17.9 (14)	5.0 (1)	78 (5)	71 (27)	42 (32)
02Y308	MPQ	9180 (19)	20.2 (2)	4.8 (12)	84 (20)	83 (31)	40 (25)
03Y818	M	9160 (20)	19.2 (6)	4.7 (24)	81 (8)	60 (21)	39 (13)
03Y845	M	9140 (21)	16.8 (26)	4.8 (11)	78 (2)	46 (13)	39 (23)
03Y369	M	9140 (22)	17.8 (15)	4.8 (18)	78 (3)	71 (27)	40 (29)
03Y689	M	9080 (23)	17.7 (16)	4.8 (12)	75 (1)	64 (25)	39 (17)
03Y332	SSR	8990 (24)	17.3 (22)	4.6 (31)	84 (19)	30 (8)	38 (10)
03Y902	M	8940 (25)	17.6 (18)	4.6 (30)	79 (6)	44 (12)	38 (8)
03Y295	MPQ	8560 (26)	18.5 (10)	4.8 (18)	85 (24)	58 (19)	40 (26)
03Y289	MPQ	8160 (27)	19.0 (7)	4.7 (24)	85 (22)	53 (15)	38 (11)
02Y311	MPQ	7940 (28)	18.6 (9)	4.9 (5)	85 (25)	60 (21)	42 (31)
03Y549	BAS	7880 (29)	14.9 (31)	4.8 (9)	92 (32)	32 (9)	39 (15)
02Y343	SPQ	7830 (30)	15.7 (30)	4.9 (3)	86 (30)	75 (30)	39 (22)
03Y081	SPQ	7500 (31)	14.7 (32)	4.9 (3)	83 (15)	55 (16)	39 (12)
02Y724	BAS	7180 (32)	16.4 (29)	4.8 (9)	86 (30)	37 (10)	37 (3)
MEAN		9300	17.9	4.8	83	47	39
CV		9	5.4	1.9	2.9	39.4	2.7
LSD (.05)		1710	2	0.2	5	37	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 11. 2004 Early Rice Variety Test - Butte County

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
M-205	M	9490 (1)	16.5 (5)	5.0 (1)	82 (19)	1 (1)	38 (8)
99Y529	L	9440 (2)	13.5 (18)	5.0 (1)	78 (9)	28 (8)	40 (17)
01Y655	REX	9370 (3)	13.9 (16)	5.0 (1)	79 (14)	43 (9)	41 (19)
01Y327	SPQ	9290 (4)	16.6 (3)	5.0 (1)	82 (18)	54 (11)	38 (8)
99Y041	L	9270 (5)	14.5 (14)	5.0 (1)	78 (7)	70 (14)	40 (16)
02Y382	M	9260 (6)	15.7 (9)	5.0 (1)	78 (9)	1 (1)	38 (7)
S-102	S	9050 (7)	14.8 (13)	5.0 (1)	70 (1)	76 (16)	37 (5)
03Y113	REX	8990 (8)	13.5 (17)	5.0 (1)	80 (15)	2 (5)	37 (4)
M-202	M	8990 (9)	17.2 (1)	5.0 (1)	81 (16)	63 (13)	42 (20)
L-204	L	8820 (10)	13.5 (19)	5.0 (1)	75 (3)	1 (1)	36 (2)
M-204	M	8800 (11)	16.0 (7)	5.0 (1)	81 (17)	3 (6)	38 (6)
M-206	M	8800 (12)	16.4 (6)	5.0 (1)	75 (3)	13 (7)	39 (12)
03Y291	MPQ	8790 (13)	16.7 (2)	5.0 (1)	78 (9)	43 (9)	38 (10)
03Y293	MPQ	8780 (14)	16.5 (4)	5.0 (1)	78 (7)	75 (15)	39 (12)
00Y805	M	8330 (15)	16.0 (8)	5.0 (1)	77 (5)	90 (19)	39 (12)
CH-201	SPQ	8200 (16)	15.0 (11)	5.0 (1)	79 (13)	88 (18)	39 (15)
CM-101	WX	8100 (17)	14.2 (15)	5.0 (1)	71 (2)	94 (20)	37 (3)
L-205	REX	8060 (18)	15.0 (12)	5.0 (1)	77 (6)	79 (17)	36 (1)
BL-1	SPQ	7860 (19)	15.4 (10)	4.0 (20)	79 (12)	59 (12)	38 (10)
CT-201	BAS	7380 (20)	13.0 (20)	5.0 (1)	83 (20)	1 (1)	40 (18)
MEAN		8750	15.2	5	78	44	38
CV		6.7	4.6	9	1.1	44.4	3.4
LSD (.05)		830	1		1	28	2

*Preliminary Lines and Varieties*

02Y565	LSR	9330 (1)	13.7 (26)	4.8 (31)	78 (11)	1 (1)	40 (26)
02Y308	MPQ	9330 (2)	15.9 (10)	5.0 (1)	78 (11)	55 (25)	39 (18)
03Y316	SPQ	9240 (3)	16.0 (6)	5.0 (1)	79 (22)	1 (1)	38 (10)
01Y502	LSR	9210 (4)	13.1 (29)	5.0 (1)	78 (11)	1 (1)	37 (7)
03Y902	M	9160 (5)	15.5 (17)	5.0 (30)	70 (1)	1 (1)	38 (10)
03Y496	LSR	9160 (6)	13.9 (25)	5.0 (1)	79 (22)	3 (14)	41 (31)
03Y631	M	8940 (7)	16.2 (2)	5.0 (1)	81 (29)	1 (1)	38 (14)
03Y406	M	8930 (8)	15.5 (18)	5.0 (1)	77 (8)	1 (1)	37 (4)
03Y273	M	8930 (9)	15.9 (8)	5.0 (1)	80 (26)	3 (14)	38 (10)
03Y322	S	8760 (10)	16.1 (5)	5.0 (1)	78 (11)	3 (14)	39 (22)
03Y366	M	8700 (11)	16.2 (3)	5.0 (1)	80 (28)	1 (1)	36 (1)
03Y361	M	8690 (12)	15.8 (12)	5.0 (1)	78 (11)	1 (1)	38 (10)
03Y369	M	8590 (13)	16.1 (4)	5.0 (1)	74 (6)	85 (31)	39 (22)
03P2659	REX	8570 (14)	13.5 (28)	5.0 (1)	81 (29)	3 (14)	40 (29)
03Y263	M	8490 (15)	15.3 (20)	5.0 (1)	78 (11)	1 (1)	36 (1)
03Y689	M	8450 (16)	15.7 (14)	5.0 (1)	71 (2)	45 (24)	39 (22)
03Y843	M	8440 (17)	16.0 (7)	5.0 (1)	78 (11)	1 (1)	37 (7)
01Y110	REX	8430 (18)	13.7 (27)	5.0 (1)	78 (9)	8 (21)	40 (26)
03Y818	M	8360 (19)	15.8 (13)	5.0 (1)	78 (9)	6 (20)	37 (7)
03Y295	MPQ	8330 (20)	15.6 (16)	5.0 (1)	79 (22)	3 (14)	38 (14)
03Y269	M	8230 (21)	15.7 (15)	5.0 (1)	72 (4)	60 (27)	38 (14)
03Y289	MPQ	8210 (22)	15.4 (19)	5.0 (1)	78 (11)	13 (22)	37 (4)
02Y343	SPQ	8190 (23)	14.3 (22)	5.0 (1)	79 (20)	97 (32)	37 (4)
03P2666	REX	8160 (24)	14.1 (24)	5.0 (1)	78 (11)	78 (30)	41 (32)
03Y388	M	8120 (25)	15.9 (11)	5.0 (1)	73 (5)	25 (23)	40 (26)
03Y508	REX	7980 (26)	12.9 (32)	5.0 (1)	75 (7)	1 (1)	36 (1)
02Y311	MPQ	7870 (27)	16.2 (1)	5.0 (1)	80 (26)	65 (28)	39 (22)
03Y845	M	7710 (28)	15.0 (21)	5.0 (1)	71 (2)	5 (19)	40 (29)
03Y332	SSR	7490 (29)	15.9 (9)	4.8 (31)	79 (20)	55 (25)	38 (14)
03Y081	SPQ	7480 (30)	14.2 (23)	5.0 (1)	79 (22)	70 (29)	39 (18)
03Y549	BAS	7400 (31)	12.9 (31)	5.0 (1)	85 (32)	1 (1)	39 (18)
02Y724	BAS	7090 (32)	12.9 (30)	5.0 (1)	81 (29)	1 (1)	39 (18)
MEAN		8440	15	5.0	77	22	38
CV		4.2	2.5	1.8	0.8	37.1	2.9
LSD (.05)		730	0.8		1	16	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 12. 2004 Early Rice Variety Test - Colusa County

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
99Y529	L	11570 (1)	12.8 (17)	4.8 (16)	92 (9)	27 (2)	40 (16)
02Y382	M	11270 (2)	14.5 (7)	4.8 (16)	94 (14)	99 (9)	39 (7)
99Y041	L	11100 (3)	14.1 (10)	5.0 (1)	92 (9)	83 (7)	40 (17)
03Y291	MPQ	11030 (4)	15.8 (1)	4.7 (19)	94 (15)	99 (9)	39 (7)
M-204	M	10830 (5)	15.3 (2)	5.0 (7)	96 (17)	98 (8)	39 (11)
M-205	M	10750 (6)	14.6 (6)	4.9 (12)	97 (19)	99 (9)	39 (7)
03Y293	MPQ	10690 (7)	15.2 (4)	4.8 (18)	91 (7)	99 (9)	40 (13)
03Y113	REX	10680 (8)	13.3 (15)	4.4 (20)	96 (18)	43 (4)	38 (1)
L-205	REX	10450 (9)	12.4 (19)	4.9 (13)	93 (13)	45 (5)	39 (5)
M-202	M	10330 (10)	15.2 (3)	5.0 (7)	92 (11)	99 (9)	40 (17)
01Y655	REX	10320 (11)	11.8 (20)	4.8 (14)	94 (16)	68 (6)	42 (20)
S-102	S	10280 (12)	13.4 (13)	5.0 (6)	84 (1)	99 (9)	40 (14)
L-204	L	10210 (13)	12.5 (18)	5.0 (7)	92 (11)	28 (3)	38 (2)
M-206	M	10200 (14)	15.0 (5)	5.0 (7)	88 (4)	99 (9)	41 (19)
01Y327	SPQ	10100 (15)	13.4 (14)	4.8 (15)	90 (6)	99 (9)	39 (7)
CH-201	SPQ	9570 (16)	14.3 (8)	4.9 (11)	91 (7)	99 (9)	38 (3)
CM-101	SW	9370 (17)	14.0 (11)	5.0 (1)	86 (2)	99 (9)	39 (12)
00Y805	M	9130 (18)	14.2 (9)	5.0 (1)	88 (4)	99 (9)	40 (14)
BL-1	SPQ	8640 (19)	13.5 (12)	5.0 (1)	88 (3)	99 (9)	38 (3)
CT-201	BAS	8440 (20)	13.3 (16)	5.0 (1)	100 (20)	1 (1)	39 (5)
MEAN		10250	13.9	4.9	92	79	39
CV		5.9	3.3	2.9	1.2	18.8	3.2
LSD (.05)		850	0.6	0.2	2	21	2

*Preliminary Lines and Varieties*

03Y316	SPQ	11550 (1)	15.7 (4)	5.0 (9)	91 (7)	97 (17)	40 (24)
03Y406	M	11470 (2)	15.8 (3)	4.9 (18)	93 (23)	85 (11)	37 (5)
02Y308	MPQ	11340 (3)	15.2 (11)	5.0 (1)	92 (13)	99 (18)	38 (7)
03Y263	M	11070 (4)	15.4 (8)	4.8 (22)	93 (21)	90 (13)	35 (1)
01Y502	LSR	10880 (5)	13.4 (25)	4.8 (25)	92 (9)	1 (1)	38 (11)
03Y322	S	10860 (6)	14.9 (13)	5.0 (1)	92 (9)	99 (18)	39 (14)
03Y631	M	10750 (7)	15.8 (2)	4.8 (22)	96 (27)	78 (10)	40 (24)
03Y366	M	10690 (8)	14.9 (16)	5.0 (9)	94 (26)	88 (12)	36 (3)
03Y361	M	10530 (9)	15.5 (6)	4.9 (18)	92 (13)	99 (18)	38 (11)
03Y273	M	10400 (10)	14.8 (17)	4.9 (18)	93 (23)	99 (18)	38 (7)
03Y496	LSR	10260 (11)	13.5 (24)	4.7 (26)	96 (27)	90 (14)	40 (28)
03P2659	REX	10110 (12)	11.8 (30)	5.0 (9)	96 (27)	50 (8)	40 (28)
02Y565	LSR	10030 (13)	12.3 (27)	4.7 (26)	97 (30)	55 (9)	39 (14)
01Y110	REX	9790 (14)	11.6 (31)	4.4 (31)	92 (13)	93 (15)	39 (19)
03Y689	M	9770 (15)	15.1 (12)	4.6 (29)	86 (1)	99 (18)	40 (24)
03Y269	M	9740 (16)	15.3 (10)	5.0 (1)	88 (3)	99 (18)	40 (28)
03Y902	M	9740 (17)	14.1 (21)	4.7 (26)	89 (6)	95 (16)	39 (14)
03Y818	M	9680 (18)	14.7 (19)	5.0 (1)	92 (13)	99 (18)	39 (19)
03Y508	REX	9680 (19)	12.2 (29)	4.6 (29)	92 (9)	1 (1)	37 (5)
03Y843	M	9660 (20)	15.5 (5)	4.9 (16)	93 (21)	3 (5)	39 (14)
03Y295	MPQ	9650 (21)	14.4 (20)	4.4 (31)	92 (9)	99 (18)	39 (14)
03P2666	REX	9600 (22)	11.5 (32)	5.0 (9)	92 (13)	99 (18)	39 (19)
03Y845	M	9590 (23)	15.4 (9)	5.0 (1)	86 (2)	8 (6)	40 (24)
03Y369	M	9500 (24)	14.8 (18)	5.0 (9)	88 (4)	99 (18)	41 (31)
02Y311	MPQ	9420 (25)	14.9 (15)	5.0 (9)	94 (25)	99 (18)	39 (19)
03Y332	SSR	9410 (26)	16.2 (1)	4.8 (22)	92 (13)	45 (7)	38 (11)
03Y289	MPQ	9220 (27)	14.9 (14)	4.9 (16)	91 (7)	99 (18)	38 (7)
03Y388	M	8750 (28)	15.4 (7)	5.0 (1)	88 (4)	99 (18)	41 (31)
02Y343	SPQ	8480 (29)	13.3 (26)	5.0 (1)	92 (13)	99 (18)	39 (19)
03Y549	BAS	8330 (30)	12.2 (28)	4.9 (18)	101 (32)	1 (1)	37 (4)
03Y081	SPQ	8310 (31)	13.5 (23)	5.0 (1)	92 (13)	99 (18)	38 (7)
02Y724	BAS	6530 (32)	13.8 (22)	5.0 (9)	99 (31)	1 (1)	36 (2)
MEAN		9840	14.3	4.8	92	74	38
CV		5.6	2.4	3	0.8	11	3.2
LSD (.05)		1120	0.7	0.3	2	17	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 13. 2004 Early Rice Variety Test - Yuba County \*

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
03Y291	MPQ	9970 (1)	17.2 (5)	5.0 (1)	91 (13)	58 (18)	38 (13)
M-206	M	9960 (2)	18.0 (4)	5.0 (6)	87 (4)	6 (13)	38 (15)
M-202	M	9850 (3)	16.7 (7)	5.0 (1)	90 (7)	16 (14)	40 (19)
01Y327	SPQ	9640 (4)	16.6 (8)	4.7 (18)	88 (5)	1 (1)	38 (11)
01Y655	REX	9380 (5)	13.3 (18)	4.7 (15)	91 (13)	1 (1)	41 (20)
S-102	S	9260 (6)	13.9 (14)	5.0 (6)	85 (2)	3 (12)	38 (9)
M-205	M	9120 (7)	18.1 (1)	4.9 (11)	93 (20)	2 (11)	38 (11)
M-204	M	9050 (8)	16.7 (6)	5.0 (1)	92 (19)	1 (1)	36 (2)
02Y382	M	8970 (9)	16.5 (9)	5.0 (10)	90 (9)	1 (1)	37 (5)
03Y293	MPQ	8970 (10)	18.0 (3)	4.9 (12)	90 (7)	23 (15)	39 (16)
CM-101	SW	8830 (11)	14.5 (12)	5.0 (1)	84 (1)	74 (19)	37 (8)
00Y805	M	8810 (12)	16.4 (10)	5.0 (6)	89 (6)	57 (17)	39 (16)
L-204	L	8790 (13)	12.8 (20)	4.7 (17)	91 (11)	1 (1)	36 (1)
L-205	REX	8510 (14)	13.6 (17)	4.7 (15)	86 (3)	1 (1)	38 (9)
CH-201	SPQ	8240 (15)	16.3 (11)	5.0 (6)	91 (15)	78 (20)	37 (4)
03Y113	REX	8100 (16)	13.6 (15)	4.5 (20)	91 (15)	1 (1)	37 (5)
99Y041	L	8040 (17)	14.1 (13)	4.9 (13)	90 (9)	1 (1)	39 (18)
99Y529	L	7760 (18)	13.2 (19)	4.6 (19)	91 (11)	1 (1)	37 (5)
CT-201	BAS	6720 (19)	13.6 (16)	5.0 (1)	91 (18)	1 (1)	38 (13)
BL-1	SPQ	6470 (20)	18.1 (2)	4.8 (14)	91 (15)	44 (16)	36 (3)
MEAN		8720	15.5	4.9	90	18	38
CV		6.8	3.9	3.3	1.1	70.9	3.5
LSD (.05)		840	0.9	0.2	1	19	2

*Preliminary Lines and Varieties*

03P2659	REX	9650 (1)	12.9 (31)	4.7 (22)	91 (20)	1 (1)	40 (32)
03Y273	M	9390 (2)	18.3 (1)	5.0 (1)	91 (20)	1 (1)	38 (15)
03Y818	M	9290 (3)	17.4 (6)	5.0 (10)	90 (8)	3 (21)	38 (21)
03Y406	M	9280 (4)	17.6 (5)	5.0 (1)	90 (8)	13 (24)	38 (21)
03Y388	M	9280 (5)	16.9 (12)	5.0 (1)	86 (3)	28 (26)	38 (21)
02Y565	LSR	9240 (6)	14.5 (24)	3.5 (31)	96 (31)	1 (1)	37 (8)
03Y902	M	9230 (7)	16.6 (13)	4.6 (25)	87 (6)	1 (1)	38 (21)
03Y496	LSR	9200 (8)	15.3 (23)	3.9 (30)	92 (27)	1 (1)	38 (21)
01Y110	REX	9140 (9)	13.8 (28)	3.0 (32)	90 (7)	1 (1)	39 (28)
02Y308	MPQ	9130 (10)	16.9 (10)	4.6 (25)	90 (8)	58 (31)	38 (15)
03Y369	M	9120 (11)	18.2 (3)	4.9 (12)	86 (2)	55 (30)	38 (15)
03Y269	M	9040 (12)	16.5 (15)	4.8 (16)	87 (5)	10 (23)	38 (15)
03Y316	SPQ	8860 (13)	15.6 (21)	4.8 (16)	91 (14)	1 (1)	38 (21)
03Y361	M	8500 (14)	16.6 (14)	4.9 (12)	90 (8)	1 (1)	36 (5)
03Y322	S	8330 (15)	15.5 (22)	4.8 (16)	90 (8)	1 (1)	38 (15)
03Y366	M	8310 (16)	16.9 (11)	5.0 (1)	91 (14)	1 (1)	35 (2)
02Y343	SPQ	8260 (17)	14.1 (25)	5.0 (1)	90 (8)	60 (32)	37 (10)
01Y502	LSR	8250 (18)	13.8 (27)	4.2 (29)	92 (25)	1 (1)	36 (3)
03Y631	M	8230 (19)	17.1 (8)	4.8 (16)	94 (29)	1 (1)	37 (10)
03P2666	REX	8100 (20)	14.0 (26)	4.8 (16)	91 (14)	1 (1)	39 (29)
03Y289	MPQ	8040 (21)	17.1 (7)	5.0 (1)	91 (14)	31 (28)	38 (15)
03Y843	M	7980 (22)	16.3 (16)	4.9 (12)	91 (14)	1 (1)	36 (5)
03Y845	M	7780 (23)	15.7 (20)	5.0 (1)	86 (3)	1 (1)	37 (10)
03Y689	M	7510 (24)	16.1 (18)	4.8 (16)	85 (1)	1 (1)	37 (10)
02Y311	MPQ	7490 (25)	17.6 (4)	4.7 (22)	91 (20)	28 (26)	39 (29)
03Y263	M	7340 (26)	17.1 (9)	5.0 (10)	91 (14)	6 (22)	36 (3)
03Y332	SSR	6730 (27)	16.2 (17)	4.4 (28)	92 (27)	1 (1)	38 (21)
03Y508	REX	6460 (28)	12.8 (32)	4.5 (27)	92 (25)	1 (1)	35 (1)
03Y081	SPQ	6450 (29)	15.8 (19)	4.9 (12)	91 (20)	33 (29)	37 (10)
03Y295	MPQ	6440 (30)	18.2 (2)	4.7 (22)	91 (20)	16 (25)	40 (31)
03Y549	BAS	5760 (31)	13.6 (30)	5.0 (1)	96 (31)	1 (1)	37 (8)
02Y724	BAS	4870 (32)	13.7 (29)	5.0 (1)	94 (30)	1 (1)	36 (5)
MEAN		8150	15.9	4.7	90	11	37
CV		7.7	4.1	4.7	0.7	142.4	3.6
LSD (.05)		1280	1.3	0.5	1	32	

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.

\* Trial damaged by late Propanil 2 herbicide application.

Table 14. 2004 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
01Y327	SPQ	9990 (1)	10930 (2)	9290 (4)	10100 (15)	9640 (4)
99Y529	L	9970 (2)	11100 (1)	9440 (2)	11570 (1)	7760 (18)
M-205	M	9910 (3)	10270 (5)	9490 (1)	10750 (6)	9120 (7)
01Y655	REX	9830 (4)	10270 (4)	9370 (3)	10320 (11)	9380 (5)
02Y382	M	9760 (5)	9550 (10)	9260 (6)	11270 (2)	8970 (9)
M-202	M	9670 (6)	9500 (11)	8990 (9)	10330 (10)	9850 (3)
M-206	M	9650 (7)	9650 (7)	8800 (12)	10200 (14)	9960 (2)
03Y113	REX	9580 (8)	10570 (3)	8990 (8)	10680 (8)	8100 (16)
M-204	M	9570 (9)	9590 (9)	8800 (11)	10830 (5)	9050 (8)
99Y041	L	9510 (10)	9640 (8)	9270 (5)	11100 (3)	8040 (17)
S-102	S	9460 (11)	9260 (12)	9050 (7)	10280 (12)	9260 (6)
03Y291	MPQ	9440 (12)	7970 (19)	8790 (13)	11030 (4)	9970 (1)
03Y293	MPQ	9340 (13)	8920 (15)	8780 (14)	10690 (7)	8970 (10)
L-204	L	9210 (14)	9010 (14)	8820 (10)	10210 (13)	8790 (13)
L-205	REX	9210 (15)	9810 (6)	8060 (18)	10450 (9)	8510 (14)
00Y805	M	8820 (16)	9020 (13)	8330 (15)	9130 (18)	8810 (12)
CM-101	WX	8670 (17)	8370 (17)	8100 (17)	9370 (17)	8830 (11)
CH-201	SPQ	8530 (18)	8120 (18)	8200 (16)	9570 (16)	8240 (15)
CT-201	BAS	7760 (19)	8500 (16)	7380 (20)	8440 (20)	6720 (19)
BL-1	SPQ	7500 (20)	7030 (20)	7860 (19)	8640 (19)	6470 (20)
MEAN		9270	9350	8750	10250	8720
CV		7	8.5	6.7	5.9	6.8
LSD (.05)		450	1130	830	850	840

<i>Preliminary Lines and Varieties</i>						
01Y502	LSR	9830 (1)	10980 (1)	9210 (4)	10880 (5)	8250 (18)
03Y406	M	9780 (2)	9450 (13)	8930 (8)	11470 (2)	9280 (4)
03Y316	SPQ	9760 (3)	9400 (14)	9240 (3)	11550 (1)	8860 (13)
02Y565	LSR	9760 (4)	10430 (2)	9330 (1)	10030 (13)	9240 (6)
02Y308	MPQ	9740 (5)	9180 (19)	9330 (2)	11340 (3)	9130 (10)
03Y496	LSR	9680 (6)	10110 (8)	9160 (6)	10260 (11)	9200 (8)
03P2659	REX	9600 (7)	10090 (9)	8570 (14)	10110 (12)	9650 (1)
03Y631	M	9560 (8)	10330 (4)	8940 (7)	10750 (7)	8230 (19)
03Y322	S	9520 (9)	10140 (7)	8760 (10)	10860 (6)	8330 (15)
03Y273	M	9490 (10)	9260 (17)	8930 (9)	10400 (10)	9390 (2)
03Y366	M	9450 (11)	10090 (10)	8700 (11)	10690 (8)	8310 (16)
01Y110	REX	9430 (12)	10360 (3)	8430 (18)	9790 (14)	9140 (9)
03Y269	M	9330 (13)	10320 (5)	8230 (21)	9740 (16)	9040 (12)
03Y361	M	9270 (14)	9380 (16)	8690 (12)	10530 (9)	8500 (14)
03Y902	M	9270 (15)	8940 (25)	9160 (5)	9740 (17)	9230 (7)
03Y263	M	9260 (16)	10150 (6)	8490 (15)	11070 (4)	7340 (26)
03Y818	M	9120 (17)	9160 (20)	8360 (19)	9680 (18)	9290 (3)
03Y369	M	9090 (18)	9140 (22)	8590 (13)	9500 (24)	9120 (11)
03Y843	M	8990 (19)	9870 (11)	8440 (17)	9660 (20)	7980 (22)
03Y388	M	8850 (20)	9240 (18)	8120 (25)	8750 (28)	9280 (5)
03P2666	REX	8810 (21)	9380 (15)	8160 (24)	9600 (22)	8100 (20)
03Y689	M	8700 (22)	9080 (23)	8450 (16)	9770 (15)	7510 (24)
03Y845	M	8560 (23)	9140 (21)	7710 (28)	9590 (23)	7780 (23)
03Y508	REX	8480 (24)	9780 (12)	7980 (26)	9680 (19)	6460 (28)
03Y289	MPQ	8410 (25)	8160 (27)	8210 (22)	9220 (27)	8040 (21)
03Y295	MPQ	8240 (26)	8560 (26)	8330 (20)	9650 (21)	6440 (30)
02Y343	SPQ	8190 (27)	7830 (30)	8190 (23)	8480 (29)	8260 (17)
02Y311	MPQ	8180 (28)	7940 (28)	7870 (27)	9420 (25)	7490 (25)
03Y332	SSR	8150 (29)	8990 (24)	7490 (29)	9410 (26)	6730 (27)
03Y081	SPQ	7430 (30)	7500 (31)	7480 (30)	8310 (31)	6450 (29)
03Y549	BAS	7340 (31)	7880 (29)	7400 (31)	8330 (30)	5760 (31)
02Y724	BAS	6420 (32)	7180 (32)	7090 (32)	6530 (32)	4870 (32)
MEAN		8930	9300	8440	9840	8150
CV		6.9	9	4.2	5.6	7.7
LSD (.05)		610	1710	730	1120	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 15. Grain Yield (lb/acre @ 14% moisture) Summary of Early Rice Varieties by Location and Year (2000-2004) \*

Location	Year	Calhikari				Calmati		
		201	<b>M-202</b>	M-204	M-205	M-206	201	L-205
Biggs (RES)	2000	9020	<b>10140</b>	11200	10870	10740	8490	10380
	2001	9290	<b>9300</b>	9880	10180	9290	8280	10320
	2002	8910	<b>10620</b>	10180	11230	10210	9040	10890
	2003	8310	<b>8530</b>	9280	9860	8320	7910	9290
	2004	8120	9500	9590	10270	9650	8500	9810
Location Mean		8730	<b>9618</b>	10026	10482	9642	8444	10138
Butte	2000	8250	8436	9027	10143	9377	7276	9071
	2001	8491	8939	8917	9202	8983	7440	8141
	2002	8677	9333	9683	9913	9858	8086	9191
	2003	6828	8294	8907	9257	8808	6379	8283
	2004	8200	8990	8800	9490	8800	7380	8060
Location Mean		8089	<b>8798</b>	9067	9601	9165	7312	8549
Colusa	2000	7887	<b>9780</b>	10638	11056	8787	7155	9529
	2001	9069	<b>9801</b>	10262	10418	10397	7050	9331
	2002	8452	<b>9247</b>	9362	10136	9592	8065	9697
	2003	7762	<b>9205</b>	9383	10010	8389	7981	8713
	2004	9570	10330	10830	10750	10200	8440	10450
Location Mean		8548	<b>9673</b>	10095	10474	9473	7738	9544
Yuba	2000	8776	9634	9833	9958	9759	7155	8672
	2001	7667	8169	8326	8128	8609	5889	7835
	2002	8609	9456	7866	8598	9948	7103	8431
	2003	8389	8305	8190	9027	8504	7186	7897
	2004	8240	9850	9050	9120	9960	6720	8510
Location Mean		8336	<b>9083</b>	8653	8966	9356	6811	8269
Loc/Years Mean		8426	<b>9293</b>	9460	9881	9409	7576	9125
<b>Yield % M-202</b>		<b>90.7</b>	<b>100</b>	<b>101.8</b>	<b>106.3</b>	<b>101.2</b>	<b>81.5</b>	<b>98.2</b>
Number of Tests		20	<b>20</b>	20	20	20	20	20

\* 2000-2003 yields for Butte, Colusa, and Yuba were converted to represent the 2004 harvested plot area of 143.4 square feet.

Table 16. 2004 Intermediate/Late Rice Variety Test - Biggs (RES)

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)				
03Y324	S	12460 (1)	19.5 (8)	4.6 (12)	85 (5)	14 (6)	41 (8)
03Y576	SSR	11220 (2)	22.5 (4)	4.5 (14)	90 (12)	11 (5)	42 (12)
03Y151	REX	11070 (3)	17.6 (11)	4.7 (11)	85 (4)	2 (3)	35 (1)
01Y617	M	10820 (4)	23.6 (2)	4.8 (5)	87 (6)	38 (8)	40 (5)
01Y501	LSR	10350 (5)	17.9 (9)	4.6 (13)	81 (1)	1 (1)	36 (3)
03Y521	REX	10340 (6)	17.7 (10)	4.8 (9)	84 (3)	1 (1)	35 (2)
M-205	M	10180 (7)	22.7 (3)	4.8 (8)	91 (13)	55 (11)	41 (10)
L-205	REX	10150 (8)	16.1 (12)	4.8 (6)	82 (2)	19 (7)	37 (4)
03Y559	MPQ	9780 (9)	21.7 (5)	4.8 (6)	87 (7)	78 (13)	42 (13)
03Y556	MPQ	9480 (10)	19.6 (7)	4.7 (10)	89 (10)	50 (10)	41 (11)
M-202	M	9480 (11)	21.0 (6)	4.9 (3)	88 (9)	75 (12)	43 (14)
M-402	MPQ	9310 (12)	25.5 (1)	4.9 (4)	96 (14)	41 (9)	41 (9)
CT-201	BAS	8840 (13)	15.7 (14)	4.9 (2)	90 (11)	2 (3)	41 (7)
CH-201	SPQ	8220 (14)	16.1 (12)	5.0 (1)	87 (8)	97 (14)	40 (6)
MEAN		10120	19.8	4.8	87	34	40
CV		10.5	12.7	2.1	3.6	59.8	3.6
LSD (.05)		1520	3.6	0.1	5	29	2

*Preliminary Lines and Varieties*

99Y529	L	11520 (1)	16.9 (17)	4.8 (12)	85 (5)	3 (4)	40 (16)
99Y494	LWX	11110 (2)	17.7 (15)	5.0 (1)	87 (9)	1 (2)	38 (5)
03Y680	M	11110 (3)	19.6 (10)	4.8 (12)	84 (3)	33 (8)	38 (9)
03Y658	L	11010 (4)	17.1 (16)	4.7 (18)	88 (12)	1 (1)	38 (7)
03Y888	M	10800 (5)	21.8 (6)	4.9 (7)	89 (15)	27 (6)	40 (15)
03Y605	M	10730 (6)	21.9 (5)	4.8 (8)	88 (10)	51 (12)	38 (6)
03Y397	M	10580 (7)	21.0 (9)	4.8 (16)	87 (8)	38 (11)	38 (9)
03Y411	M	10530 (8)	21.8 (6)	4.8 (12)	86 (7)	55 (14)	37 (4)
03Y820	M	10340 (9)	21.9 (4)	4.8 (11)	90 (18)	75 (17)	41 (17)
03Y600	M	10160 (10)	22.8 (2)	4.8 (8)	85 (4)	38 (10)	37 (3)
03Y418	M	10080 (11)	22.3 (3)	4.9 (5)	89 (15)	29 (7)	38 (8)
03Y407	M	9940 (12)	19.2 (12)	4.8 (12)	88 (12)	58 (15)	40 (14)
02Y321	MPQ	9760 (13)	19.5 (11)	4.7 (18)	88 (12)	53 (13)	43 (19)
02Y313	MPQ	9420 (14)	21.5 (8)	4.7 (17)	89 (15)	73 (16)	42 (18)
03Y138	BG	9260 (15)	15.9 (19)	4.9 (2)	83 (2)	89 (19)	39 (11)
02Y305	MPQ	9220 (16)	24.2 (1)	4.8 (8)	85 (6)	89 (19)	43 (20)
03Y857	M	8740 (17)	18.3 (13)	4.9 (2)	81 (1)	86 (18)	39 (13)
02Y720	BAS	8330 (18)	17.8 (14)	4.6 (20)	93 (20)	20 (5)	39 (12)
02 67079	BAS	8040 (19)	16.4 (18)	4.9 (2)	91 (19)	2 (3)	35 (1)
02 67068	BAS	7570 (20)	15.6 (20)	4.9 (5)	88 (10)	33 (8)	36 (2)
MEAN		9910	19.6	4.8	87	42	39
CV		7	6.2	1.6	2.9	37.8	3
LSD (.05)		1450	2.6	0.2	5	34	2

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

BG = bold grain; 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. 2004 Intermediate/Late Rice Variety Test - Glenn Co.

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)				
01Y501	LSR	10490 (1)	14.3 (9)	4.2 (13)	95 (5)	53 (4)	39 (11)
03Y576	SSR	10380 (2)	18.1 (2)	4.6 (9)	92 (2)	60 (7)	38 (6)
01Y617	M	10370 (3)	17.4 (5)	4.7 (8)	98 (11)	59 (6)	37 (3)
M-205	M	10210 (4)	17.5 (4)	4.9 (7)	98 (12)	56 (5)	38 (5)
M-402	MPQ	9860 (5)	18.3 (1)	5.0 (1)	99 (14)	78 (9)	38 (8)
03Y521	REX	9540 (6)	12.9 (12)	4.5 (11)	95 (7)	1 (1)	37 (2)
03Y151	REX	9350 (7)	12.5 (14)	4.5 (11)	95 (7)	8 (2)	38 (6)
L-205	REX	9140 (8)	13.5 (11)	4.9 (6)	92 (3)	85 (11)	37 (4)
03Y559	MPQ	9070 (9)	17.6 (3)	4.9 (4)	95 (7)	79 (10)	39 (12)
M-202	M	9040 (10)	16.5 (6)	4.9 (4)	95 (6)	91 (13)	39 (13)
03Y556	MPQ	8890 (11)	15.5 (7)	4.6 (9)	96 (10)	89 (12)	39 (10)
03Y324	S	8870 (12)	15.2 (8)	3.8 (14)	87 (1)	68 (8)	38 (9)
CT-201	BAS	8280 (13)	12.6 (13)	5.0 (1)	98 (12)	25 (3)	40 (14)
CH-201	SPQ	8240 (14)	13.7 (10)	5.0 (1)	93 (4)	91 (13)	36 (1)
MEAN		9410	15.4	4.7	95	60	38
CV		4.8	4.1	3.2	0.5	29.4	3.5
LSD (.05)		640	0.9	0.2	1	25	2

*Preliminary Lines and Varieties*

99Y529	L	11290 (1)	12.9 (19)	4.9 (8)	95 (6)	15 (4)	37 (7)
03Y411	M	10670 (2)	18.5 (2)	4.9 (8)	98 (15)	35 (7)	36 (4)
03Y605	M	10660 (3)	17.6 (5)	5.0 (1)	98 (15)	50 (11)	37 (10)
03Y600	M	10560 (4)	17.8 (4)	4.8 (12)	98 (13)	65 (14)	37 (7)
03Y418	M	10550 (5)	18.1 (3)	4.9 (7)	98 (15)	63 (13)	36 (5)
99Y494	LWX	10520 (6)	12.2 (20)	5.0 (1)	93 (2)	45 (9)	35 (2)
03Y888	M	10480 (7)	18.8 (1)	4.9 (8)	98 (15)	30 (6)	37 (7)
03Y397	M	10070 (8)	17.0 (11)	4.7 (15)	98 (13)	60 (12)	36 (5)
03Y658	L	9910 (9)	14.1 (15)	4.6 (17)	97 (11)	6 (1)	38 (15)
03Y680	M	9910 (10)	16.8 (14)	4.8 (13)	94 (4)	45 (9)	35 (3)
03Y407	M	9900 (11)	17.4 (7)	4.9 (8)	96 (8)	40 (8)	38 (13)
02Y313	MPQ	9660 (12)	16.8 (13)	4.5 (18)	96 (8)	99 (20)	41 (20)
03Y820	M	9570 (13)	17.4 (8)	5.0 (1)	96 (8)	90 (16)	37 (10)
02Y305	MPQ	9110 (14)	17.0 (10)	4.7 (15)	94 (5)	95 (19)	39 (18)
03Y857	M	8970 (15)	16.9 (12)	5.0 (1)	89 (1)	90 (16)	38 (15)
02Y321	MPQ	8680 (16)	17.4 (6)	4.5 (18)	95 (6)	90 (15)	40 (19)
03Y138	BG	8550 (17)	17.2 (9)	4.8 (13)	93 (2)	93 (18)	37 (10)
02Y720	BAS	8150 (18)	13.7 (16)	4.3 (20)	102 (20)	26 (5)	38 (15)
02 67068	BAS	6800 (19)	13.3 (18)	5.0 (1)	97 (11)	10 (2)	34 (1)
02 67079	BAS	6390 (20)	13.7 (17)	5.0 (1)	99 (19)	13 (3)	38 (13)
MEAN		9520	16.2	4.8	96	53	37
CV		3.8	5.2	3.5	0.5	25	3.1
LSD (.05)		750	1.8	0.4	1	28	2

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

BG = bold grain; 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. 2004 Intermediate/Late Rice Variety Test - Sutter Co.

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield at 14% Moisture		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)					
		lbs/acre											
01Y501	LSR	11570	(1)	12.8	(12)	4.6	(9)	87	(4)	55	(6)	37	(5)
03Y151	REX	11540	(2)	13.1	(11)	4.5	(10)	88	(7)	1	(1)	37	(3)
03Y521	REX	11190	(3)	13.2	(10)	4.0	(14)	89	(8)	3	(2)	37	(5)
M-202	M	11140	(4)	15.4	(2)	5.0	(6)	87	(6)	85	(11)	39	(11)
03Y324	S	11110	(5)	15.2	(5)	4.4	(11)	85	(1)	65	(9)	38	(9)
L-205	REX	10970	(6)	12.6	(13)	5.0	(6)	86	(2)	60	(8)	36	(1)
M-205	M	10850	(7)	15.0	(7)	5.0	(1)	92	(12)	85	(11)	36	(1)
CH-201	SPQ	10610	(8)	13.8	(9)	5.0	(1)	86	(2)	89	(14)	37	(3)
03Y576	SSR	10430	(9)	15.4	(3)	4.3	(12)	87	(4)	36	(3)	39	(11)
03Y559	MPQ	10380	(10)	15.9	(1)	4.3	(12)	92	(10)	83	(10)	39	(10)
01Y617	M	10330	(11)	15.4	(4)	4.9	(8)	91	(9)	45	(5)	38	(8)
03Y556	MPQ	10220	(12)	15.2	(6)	5.0	(1)	92	(10)	38	(4)	40	(13)
M-402	MPQ	9430	(13)	14.3	(8)	5.0	(1)	98	(14)	88	(13)	37	(5)
CT-201	BAS	9360	(14)	12.3	(14)	5.0	(1)	93	(13)	60	(7)	40	(13)
MEAN		10650		14.3		4.7		89		57		38	
CV		5.7		3.8		4.3		1.2		37.8		3.4	
LSD (.05)		860		0.8		0.3		1		31		2	

*Preliminary Lines and Varieties*

99Y529	L	11960	(1)	13.5	(18)	4.7	(19)	86	(1)	8	(4)	39	(17)
03Y680	M	11030	(2)	15.6	(7)	5.0	(1)	90	(4)	60	(6)	36	(5)
99Y494	LWX	10960	(3)	12.2	(20)	4.9	(12)	93	(10)	97	(15)	36	(3)
03Y857	M	10730	(4)	15.5	(8)	5.0	(1)	87	(2)	99	(17)	39	(18)
03Y605	M	10300	(5)	15.2	(10)	5.0	(1)	93	(10)	95	(14)	35	(1)
03Y658	L	10160	(6)	13.0	(19)	5.0	(1)	93	(12)	80	(8)	37	(6)
02Y313	MPQ	10130	(7)	15.2	(11)	4.9	(12)	96	(19)	99	(17)	39	(18)
03Y418	M	10080	(8)	15.5	(9)	5.0	(1)	92	(9)	88	(9)	35	(1)
03Y407	M	10040	(9)	15.7	(6)	4.8	(17)	91	(6)	88	(9)	38	(14)
03Y397	M	9980	(10)	16.2	(2)	4.8	(17)	93	(12)	90	(12)	37	(6)
03Y411	M	9970	(11)	15.8	(5)	5.0	(1)	94	(14)	92	(13)	37	(6)
02Y305	MPQ	9900	(12)	16.1	(3)	4.8	(16)	91	(5)	97	(15)	40	(20)
03Y600	M	9900	(13)	16.1	(4)	5.0	(11)	91	(6)	50	(5)	36	(3)
03Y138	BG	9450	(14)	14.6	(12)	4.9	(12)	87	(2)	88	(9)	37	(6)
02Y321	MPQ	9060	(15)	16.4	(1)	5.0	(1)	91	(6)	75	(7)	38	(16)
03Y888	M	8690	(16)	14.4	(13)	4.9	(12)	95	(17)	99	(17)	38	(14)
03Y820	M	8560	(17)	14.0	(14)	5.0	(1)	94	(15)	99	(17)	37	(12)
02Y720	BAS	8240	(18)	13.9	(15)	4.3	(20)	95	(17)	1	(1)	37	(12)
02 67068	BAS	7940	(19)	13.7	(16)	5.0	(1)	95	(16)	1	(1)	37	(6)
02 67079	BAS	7470	(20)	13.6	(17)	5.0	(1)	98	(20)	1	(1)	37	(6)
MEAN		9730		14.8		4.9		92		70		37	
CV		5		3.6		3.1		0.6		27.2		3.9	
LSD (.05)		1010		1.1		0.3		1		40			

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

BG = bold grain; 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. 2004 Intermediate/Late Rice Variety Tests - Three Location Yield  
(lb/ac @ 14% moisture) Summary

*Advanced Lines and Varieties*

Variety	Grain		Biggs (RES)	Glenn Wylie	Sutter Akin
	Type	Average			
03Y324	S	10820 ( 1)	12460 ( 1)	8870 (12)	11110 ( 5)
01Y501	LSR	10800 ( 2)	10350 ( 5)	10490 ( 1)	11570 ( 1)
03Y576	SSR	10680 ( 3)	11220 ( 2)	10380 ( 2)	10430 ( 9)
03Y151	REX	10660 ( 4)	11070 ( 3)	9350 ( 7)	11540 ( 2)
01Y617	M	10510 ( 5)	10820 ( 4)	10370 ( 3)	10330 (11)
M-205	M	10410 ( 6)	10180 ( 7)	10210 ( 4)	10850 ( 7)
03Y521	REX	10360 ( 7)	10340 ( 6)	9540 ( 6)	11190 ( 3)
L-205	REX	10080 ( 8)	10150 ( 8)	9140 ( 8)	10970 ( 6)
M-202	M	9890 ( 9)	9480 (11)	9040 (10)	11140 ( 4)
03Y559	MPQ	9740 (10)	9780 ( 9)	9070 ( 9)	10380 (10)
M-402	MPQ	9530 (11)	9310 (12)	9860 ( 5)	9430 (13)
03Y556	MPQ	9530 (12)	9480 (10)	8890 (11)	10220 (12)
CH-201	SPQ	9020 (13)	8220 (14)	8240 (14)	10610 ( 8)
CT-201	BAS	8820 (14)	8840 (13)	8280 (13)	9360 (14)
MEAN		10060	10120	9410	10650
CV		7.5	10.5	4.8	5.7
LSD (.05)		610	1520	640	860

*Preliminary Lines and Varieties*

99Y529	L	11590 ( 1)	11520 ( 1)	11290 ( 1)	11960 ( 1)
99Y494	LWX	10860 ( 2)	11110 ( 2)	10520 ( 6)	10960 ( 3)
03Y680	M	10680 ( 3)	11110 ( 3)	9910 (10)	11030 ( 2)
03Y605	M	10560 ( 4)	10730 ( 6)	10660 ( 3)	10300 ( 5)
03Y411	M	10390 ( 5)	10530 ( 8)	10670 ( 2)	9970 (11)
03Y658	L	10360 ( 6)	11010 ( 4)	9910 ( 9)	10160 ( 6)
03Y418	M	10240 ( 7)	10080 (11)	10550 ( 5)	10080 ( 8)
03Y600	M	10210 ( 8)	10160 (10)	10560 ( 4)	9900 (13)
03Y397	M	10210 ( 9)	10580 ( 7)	10070 ( 8)	9980 (10)
03Y888	M	9990 (10)	10800 ( 5)	10480 ( 7)	8690 (16)
03Y407	M	9960 (11)	9940 (12)	9900 (11)	10040 ( 9)
02Y313	MPQ	9740 (12)	9420 (14)	9660 (12)	10130 ( 7)
03Y820	M	9490 (13)	10340 ( 9)	9570 (13)	8560 (17)
03Y857	M	9480 (14)	8740 (17)	8970 (15)	10730 ( 4)
02Y305	MPQ	9410 (15)	9220 (16)	9110 (14)	9900 (12)
02Y321	MPQ	9170 (16)	9760 (13)	8680 (16)	9060 (15)
03Y138	BG	9090 (17)	9260 (15)	8550 (17)	9450 (14)
02Y720	BAS	8240 (18)	8330 (18)	8150 (18)	8240 (18)
02 67068	BAS	7440 (19)	7570 (20)	6800 (19)	7940 (19)
02 67079	BAS	7300 (20)	8040 (19)	6390 (20)	7470 (20)
MEAN		9720	1450	750	1010
CV		5.5	9910	9520	9730
LSD (.05)		610	7	3.8	5

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 20. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/  
Late Rice Varieties by Location and Year (2000-2004) \*

Location	Year	M-205	M-402	<b>M-202</b>	L-205
Biggs (RES)	2000	11110	9810	<b>10480</b>	-
	2001	9430	8710	<b>8580</b>	8910
	2002	11600	10800	<b>9970</b>	11330
	2003	10180	8130	<b>8650</b>	10580
	2004	10180	9310	<b>9480</b>	10150
<b>Location Mean</b>		10500	9352	<b>9432</b>	10243
Glenn	2000	10073	8159	<b>8881</b>	-
	2001	9435	8473	<b>8044</b>	6935
	2002	9247	9257	<b>8368</b>	7782
	2003	8483	7887	<b>6862</b>	7500
	2004	10210	9860	<b>9040</b>	9140
<b>Location Mean</b>		9490	8727.229	<b>8239</b>	7839
Sutter	2000	10293	10063	<b>10293</b>	-
	2001	10324	9822	<b>10711</b>	9153
	2002	10115	8692	<b>10743</b>	8933
	2003	11151	9613	<b>10356</b>	9310
	2004	10850	9430	<b>11140</b>	10970
<b>Location Mean</b>		10547	9524	<b>10649</b>	9591
<b>Loc/Years Mean</b>		10179	9201	<b>9440</b>	9224
<b>Yield % M-202</b>		<b>107.8</b>	<b>97.5</b>	<b>100</b>	<b>97.7</b>
<b>Number of Tests</b>		15	15	<b>15</b>	12

\* 2000-2003 yields for Glenn and Sutter were converted to represent the 2004 harvested plot area of 143.4 square feet.