



AGRONOMY PROGRESS REPORT

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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2012 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 2012. 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.

Spring rains slowed field preparation resulting in a decrease of acres planted to an estimated 568,000 acres (a decrease of 2.9% compared to 2011). The estimated statewide yield was 8,300 lbs/ac, 0.6% less than the 2011 average. The harvest of 563,000 acres in 2012 acres was 2.9% less than the 2011 harvested acreage. Cool spring temperatures followed by relatively warm mid-summer temperatures (Table 2) decreased days to heading 5-10 days across locations. Cool temperatures and rain at harvest resulted in muddy field conditions causing a delay of harvest in many areas of up to two weeks.

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 new lines

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to be 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 the advanced test at each of the following locations.

	Date Planted	Date Harvested
• Butte County (RES)	05/17	09/26
• Sutter County (Lauppe)	05/24	10/17
• Yolo County (Webster)	05/14	10/20
• San Joaquin (Del Rio Partners)	05/10 (drill-seeded)	10/29

Commercial varieties included Calmochi-101, Calhkari-201, S-102, M-104, M-202, M-205, M-206, and L-206. Thirty-two experimental lines and two commercial varieties (M-105 and CA-201) were evaluated in the preliminary test at each location. All advanced and preliminary experimental lines at each location were entries from the RES breeding program.

Early Maturity Group

Eight commercial varieties and nine advanced lines and were evaluated in the advanced test at each of the following locations.

	Date Planted	Date Harvested
• Butte County (RES)	05/18	09/28
• Butte County (Larrabee)	05/28	10/27
• Colusa County (Dennis)	05/29	11/05
• Yuba County (Marler Farms)	05/22	11/04

Commercial varieties included Calmochi-101, Calhkari-201, Calhkari-202, S-102, M-202, M-205, M-206, and L-206. Thirty-two preliminary lines and six commercial varieties (Calhkari-201, Calmati-202, A-201, A-301, M-105, and M-208) were included in a separate preliminary test at each site. All advanced and preliminary experimental lines were entries from the RES breeding program.

Late Maturity Group

Six commercial varieties and two advanced lines were evaluated in the advanced test at each of the following locations.

	Date Planted	Date Harvested
• Butte County (RES)	05/19	10/04
• Glenn County (Wiley)	05/08	10/19
• Sutter County (Tucker)	05/17	10/08

Commercial varieties included Calhkari-201, Calhkari-202, M-202, M-205, M-402, and L-206. Twenty-eight experimental lines and four commercial varieties (Koshihikari, Calmati-202, M-401, and A-201) were included in a separate preliminary test at each site. All advanced and preliminary experimental lines were entries from the RES breeding program.

Planting and Harvesting

Individual plots, except at San Joaquin, were water-seeded by hand at a planting rate of 144 lbs/acre. The plots at the San Joaquin Delta site were drill-seeded with a HEGE plot planter at a rate of 120 lbs/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 at time of harvest on a scale of 1 (no lodging) to 99 (all plants completely lodged).

All tests, except Colusa, were harvested with an ALMACO combine. Due to wet field conditions, the Colusa test was harvested with the SWECO 324 small plot combine. The plots at the RES were harvested with the new RES ALMACO combine. The harvest area for plots harvested by the SWECO, ALMACO, and new RES ALMACO combines was 145, 153, and 140 ft² respectively. 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)

A two location combined yield and agronomic performance summary is given in Table 3. Agronomic performance data for individual entries at each Very Early location are presented in Tables 4-7. Entries are ranked by grain yield with the highest yielding entry appearing first. A 5 year yield summary of selected Very Early commercial rice varieties by location and year (2008-2012) is presented in Table 8.

Grain yields in the advanced tests averaged 9,960 lbs/ac at Biggs-RES, 9,120 lbs/ac at Sutter, 9,370 lbs/ac at Yolo and 8,000 lbs/ac at San Joaquin (Tables 4-7). Over all locations, the three highest yielding entries on average were advanced waxy short grain line 09Y2141, M-206, and advanced short grain line 09Y2036 (10,020, 9,660, and 9,610 lbs/ac respectively). Top yielding commercial varieties M-104, CH-202, L-206, and M-202 ranked seventh, tenth, eleventh, and thirteenth, respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 6,760 to 10,270 lbs/ac (Table 3).

Long grain cultivar 06Y575, M-206, and short waxy cultivar 09Y2141 yielded highest (first, second and third, respectively) in the cooler San Joaquin trial. M-104, a very early, medium-grain, commercial variety was seventh in the San Joaquin trial.

The average number of days to 50% heading in 2012 was five days less than in 2011. Plant height and seedling vigor were relatively unchanged from 2011, however lodging increased 19%.

Table 8 is a 5-year summary of very early commercial rice variety yields compared by locations and over years. Common year-location entries are compared to give relative yield as a percentage of M-104, the very early standard. An average of the very early tests, over the last 5 years, shows that M-202, M-206, Calmochi-101, S-102, and L-206 yielded 96%, 103%, 93%, 97%, and 100% (respectively) of the standard variety M-104. Over the 5-year period and across locations, M-206 was the highest yielding variety at 9,612 lbs/ac followed by L-206 and S-102 at 9,276 lbs/ac, and 9,018 lbs/ac respectively (Table 8).

SUMMARY OF THE EARLY RICE VARIETY TESTS

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

A four location combined advanced yield summary and a three location combined preliminary yield summary are presented in Table 9. The RES preliminary data was not included in the combined summary due to an unusually high yield CV. Agronomic performance data for individual entries at each early location are presented in Tables 10-13. Entries are ranked by grain yield with the highest yielding entry appearing first. A 5 year yield summary of selected early commercial rice varieties by location and year (2008-2012) is found in Table 14.

Yields in the advanced line tests averaged 10,100 lbs/ac at the RES, 9,220 lbs/ac at Butte, 8,810 lbs/ac at Colusa and 8,550 lbs/ac at Yuba (Tables 10-13). Advanced long grain 11Y1008 was the highest yielding entry (10,180 lbs/ac) when averaged over four locations in 2012 (Table 9). Other entries with yields not significantly less than 11Y1008 were long grains 09Y1122 and 06Y575. The yield of commercial varieties L-206, M-206, M-205, and M-202, ranked seventh, eighth, ninth, and eleventh over all locations (Table 9).

Average days to 50% heading decreased 9 days compared to 2011, ranging from 85 days at Biggs to 90 days at Yuba. The commercial standard M-206 headed at 84 days at Biggs and 87 days at Yuba. Average lodging increased 40% compared to 2011.

Table 14 is a 5-year summary of early commercial rice variety yields compared by locations and over years. Common year-location entries are compared to give relative yield as a percentage of M-202, the early standard. An average of the early tests, over the last 5 years, shows that L-206, M-205, M-206, and M-105 yielded 105%, 105%, 103%, 97%, and 101% (respectively) of the standard variety M-202. L-206 was the highest yielding commercial variety (9,750 lbs/ac) followed by M-205 (9,700 lbs/ac).

SUMMARY OF THE INTERMEDIATE-LATE RICE VARIETY TESTS
(intermediate = 98-105 days and late = > 105 days to 50% heading at Biggs, CA)

A three location combined yield summary is given in Table 15. Agronomic performance data for individual entries at each intermediate-late location are presented in Tables 16-18. Entries are ranked by grain yield with the highest yielding entry appearing first. A 5 year yield summary of selected intermediate-late commercial rice varieties by location and year (2008-2012) is found in Table 19.

Average yields in the advanced tests were 10,390 lbs/ac at the RES, 8,090 lbs/ac at Glenn and 9,350 lbs/ac at Sutter (Tables 16-18). The 2012 advanced over location average yield was 190 lbs/ac less than the 2011 average. The average yields at Glenn and Sutter decreased 160 and 50 lbs/ac respectively, while increasing 630 lbs/ac at the RES compared to the 2011 season. M-205 was the highest yielding commercial variety (9,690 lbs/ac), ranking second overall. L-206 and M-202 were the next highest yielding commercial varieties across locations, ranking third and fourth respectively (Table 15). The advanced long grain Newrex entry 06Y575 was the highest yielding entry overall (9,950 lbs/ac) and ranked first at Glenn and Sutter.

Average days to 50% heading decreased 10 days compared to 2011. Seedling vigor, plant height, and lodging were essentially the same as 2011. M-402 required the longest time to reach 50% heading among the commercial varieties at all locations, averaging 97 days.

Averaged over the last 5 years and across locations, M-205 (9,535 lbs/ac) is the highest yielding commercial variety. L-206 and M-402 yielded 104% and 99%, respectively, of the yield of the standard variety M-202 on average over the last 5 years (Table 19).

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CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2012

Grain Type	Maturity	Year Seed Widely Available	Stem Rot Score ¹	Seedling Vigor ²	Comments
Short Grain					
S-102 ⁶	Very Early ³	1998	5.6	4.3	Very high yield potential. Good resistance to blanking with a very large grain. Rough leaves and hulls, grain dries down rapidly during ripening. Susceptible to stem rot.
Medium Grains					
M-104 ^{6,7}	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-105 ^{6,7}	Very Early	2013	4.8	4.2	New release, earlier maturing than M-206 but not as early as M-104. The yield potential of M-105 is less than M-206 but greater than M-104. Very high stable milling yields. Not as cold tolerant as M-104 as a choice for cold areas or late plantings.
M-202	Early	1987	5.5	4.4	Good yield potential. Moderately susceptible to lodging. Long time favorite but is being replaced in many areas with newer varieties.
M-205 ^{6,7}	Early	2002	4.9	4.1	Very high yield potential. Primary adaptation area west of Highway 70 and north of Highway 20. Susceptible to blanking. Matures 4-7 days later than M-202. Improved milling yields and lodging tolerance relative to M-202. Not recommended for Escalon, Delta region or other cool areas.
M-206 ^{6,7}	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 improved milling yield. Four days later than M-104 and four days earlier than M-202. Avoid late planting in the Escalon/Delta areas.
M-208 ^{6,7}	Early	2008	6.6	4.3	Calrose cultivar released with IG-1 blast resistance. Released for blast problems areas of Glenn and Colusa Counties. Primarily adapted to north of the Yolo-Colusa County line and west of Hwy 70. Production practices comparable to M-206.
Long Grains					
L-206 ^{6,7}	Very Early to Early	2008	5.5	4.4	Conventional long grain with improved cooking quality. Very high yield potential. Four days earlier than L-205 and M-202. Considerably shorter than L-205 and M-202. Average head rice yield 62%. Adapted to most areas except in coldest and warmest rice growing regions. Harvest at 17 - 18% grain moisture.
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 other medium grain varieties. Best adapted to warmer areas. Milling yields lower than other medium grain varieties.
M-402 ^{6,7}	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 ^{5,6,7}	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 Rices⁵					
Calmochi-101 ⁵	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.
Calamylow-201 ^{5,6}	Early ⁴	2009	6.2	4.2	Low amylose content (≈6-7%), opaqued kernel and small short grain shape. Rough leaves and hull and not adapted to cool temperature areas. Low yield potential very limited market.
Calmati-202 ^{5,6,7}	Early ⁴	2008	6.0	4.4	A basmati type long grain with improved cooking quality and more slender grain. Excellent seedling vigor. Yield potential is 10% lower than CF-201. Pubescent leaves and hull. Average milling yield 58 - 60%. Susceptible to blanking and should not be grown in cool areas. Avoid excessive nitrogen. 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.			⁵ These varieties are considered varieties of Commercial Impact (Tier 1) and are subject to production regulations. ⁶ Protected under the Plant Variety Protection Act and only to be sold as a class of certified seed. ⁷ Utility Patent		

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Table 2. 2012 County Weather Data - Daily Maximums and Minimums (°F). Collected by UC IPM - IMPACT and CIMIS

	Glenn (Willows)		Colusa (Colusa)		Yolo (Woodland)		Butte (Durham)		Sutter, VE&IL (Nicolas)		San Joaquin (Woodbridge)			Glenn (Willows)		Colusa (Colusa)		Yolo (Woodland)		Butte (Durham)		Sutter, VE&IL (Verona)		San Joaquin (Lodi, west)	
	max	min	max	min	max	min	max	min	max	min	max	min		max	min	max	min	max	min	max	min	max	min	max	min
Apr 01	68	35	63	35	65	41	61	37	65	41	62	42	May 01	81	44	79	51	76	51	77	49	76	51	74	48
Apr 02	69	39	69	42	69	44	69	38	69	44	66	40	May 02	77	45	73	46	74	45	72	46	74	45	73	42
Apr 03	69	42	68	45	70	45	67	46	70	45	67	44	May 03	74	51	69	52	67	52	65	52	67	52	67	51
Apr 04	60	35	62	35	64	42	61	37	64	42	62	40	May 04	79	44	71	50	73	48	71	49	73	48	69	49
Apr 05	59	28	59	31	59	33	60	30	59	33	59	35	May 05	84	49	76	52	78	55	75	47	78	55	78	48
Apr 06	65	30	64	30	64	34	63	31	64	34	63	33	May 06	90	63	83	59	84	60	82	52	84	60	84	54
Apr 07	73	42	67	36	69	36	66	34	69	36	70	33	May 07	95	55	88	55	90	59	87	47	90	59	88	45
Apr 08	72	43	70	36	73	40	70	37	73	40	74	39	May 08	95	54	91	46	94	54	91	48	94	54	93	46
Apr 09	71	35	70	41	72	41	69	43	72	41	71	40	May 09	92	54	89	53	90	52	90	49	90	52	90	49
Apr 10	62	48	58	50	58	51	58	51	58	51	59	46	May 10	91	54	85	62	87	56	84	59	87	56	84	50
Apr 11	60	49	61	49	61	47	62	49	61	47	61	49	May 11	94	56	90	51	91	61	90	53	91	61	89	47
Apr 12	57	45	61	46	61	47	59	47	61	47	63	47	May 12	95	54	96	50	95	50	92	48	95	50	91	49
Apr 13	69	45	56	45	58	46	54	43	58	46	60	44	May 13	89	55	83	53	85	51	88	50	85	51	74	50
Apr 14	70	40	69	39	68	42	70	40	68	42	67	43	May 14	82	48	76	52	75	49	77	53	75	49	73	44
Apr 15	71	42	70	41	72	42	70	41	72	42	72	44	May 15	85	51	82	54	83	51	83	51	83	51	81	48
Apr 16	71	47	71	50	74	47	70	50	74	47	72	45	May 16	87	53	86	54	86	51	86	54	86	51	84	49
Apr 17	72	43	70	42	74	46	70	42	74	46	73	48	May 17	86	56	78	55	84	53	77	56	84	53	75	49
Apr 18	78	51	74	51	77	49	72	51	77	49	74	48	May 18	87	55	85	49	86	48	84	48	86	48	83	48
Apr 19	89	50	80	53	83	54	79	54	83	54	80	53	May 19	92	50	86	49	88	49	74	46	88	49	87	48
Apr 20	90	58	92	61	90	62	89	57	90	62	88	54	May 20	93	57	92	55	92	54	91	52	92	54	91	49
Apr 21	92	55	92	55	92	59	89	55	92	59	91	55	May 21	89	58	87	60	88	55	82	53	88	55	78	57
Apr 22	91	59	90	57	91	58	90	56	91	58	90	56	May 22	84	57	82	58	86	54	82	56	86	54	80	54
Apr 23	84	53	80	56	77	53	78	57	77	53	70	54	May 23	85	48	81	48	83	55	80	58	83	55	80	55
Apr 24	75	49	75	54	75	52	74	56	75	52	76	54	May 24	81	54	77	54	82	54	77	54	82	54	76	51
Apr 25	69	54	71	58	72	58	75	47	72	58	69	55	May 25	76	51	70	49	69	52	68	45	69	52	68	49
Apr 26	73	53	67	46	67	47	69	47	67	47	64	48	May 26	77	45	73	46	74	50	74	44	74	50	73	47
Apr 27	82	41	72	44	74	44	71	42	74	44	72	42	May 27	78	47	76	49	80	49	76	49	80	49	77	42
Apr 28	87	49	82	45	83	50	79	46	83	50	81	47	May 28	83	47	77	54	77	50	76	54	77	50	74	47
Apr 29	89	55	87	59	88	58	85	55	88	58	85	48	May 29	93	46	83	48	84	47	82	47	84	47	81	42
Apr 30	86	55	86	54	88	56	83	54	88	56	84	50	May 30	95	53	90	52	94	51	90	51	94	51	89	49
													May 31	96	57	95	57	97	54	92	55	97	54	95	51
Jun 01	97	64	97	61	98	60	94	61	96	57	96	55	Jul 01	91	59	91	59	94	58	88	59	94	61	94	55
Jun 02	86	56	89	64	93	60	88	64	89	60	85	59	Jul 02	96	61	96	63	97	60	92	60	93	63	98	58
Jun 03	87	55	88	58	91	55	86	58	87	55	86	53	Jul 03	105	65	98	65	99	64	99	64	94	65	100	59
Jun 04	75	55	71	54	71	53	69	54	70	51	66	50	Jul 04	98	66	98	61	99	62	94	60	94	66	100	60
Jun 05	83	44	70	47	71	52	70	45	73	47	71	47	Jul 05	100	66	99	65	99	61	96	63	95	64	100	59
Jun 06	85	52	81	51	81	56	80	52	83	53	80	47	Jul 06	97	68	96	67	94	61	93	65	95	69	99	63
Jun 07	85	51	84	54	86	52	84	52	87	54	83	47	Jul 07	97	62	92	64	93	59	90	59	94	64	96	59
Jun 08	87	56	82	59	85	54	81	54	84	52	81	54	Jul 08	96	63	96	62	94	55	92	63	95	61	97	56
Jun 09	82	45	78	53	80	55	77	49	82	47	80	49	Jul 09	93	60	88	64	85	56	88	64	95	58	87	55
Jun 10	93	65	89	63	89	65	88	59	89	60	89	58	Jul 10	92	60	86	58	86	53	84	57	95	55	87	49
Jun 11	95	57	94	56	97	59	91	54	97	52	94	50	Jul 11	85	59	81	59	78	54	91	61	96	56	78	51
Jun 12	99	58	94	58	94	58	92	54	95	54	92	54	Jul 12	85	57	83	56	81	53	81	55	97	55	80	48
Jun 13	101	60	95	62	96	57	94	60	95	55	89	53	Jul 13	80	60	78	59	77	56	77	59	99	57	77	52
Jun 14	100	62	97	62	95	57	93	56	95	57	89	55	Jul 14	83	54	80	55	77	52	78	51	99	54	78	45
Jun 15	106	66	96	62	97	55	95	56	96	54	93	51	Jul 15	96	63	81	55	79	51	81	53	96	54	80	46
Jun 16	90	58	102	69	103	66	94	66	100	61	102	58	Jul 16	85	55	80	56	80	53	78	55	95	55	80	53
Jun 17	107	65	100	64	101	62	97	62	97	61	92	60	Jul 17	93	61	80	58	80	56	79	59	95	58	78	58
Jun 18	94	57	87	60	87	57	88	58	83	57	85	53	Jul 18	86	54	83	57	82	54	82	53	96	57	84	52
Jun 19	97	59	91	53	90	54	88	57	88	50	89	49	Jul 19	91	58	94	59	87	55	91	60	96	58	89	56
Jun 20	98	65	92	57	95	63	92	57	95	56	94	53	Jul 20	94	60	92	61	92	56	90	55	95	61	95	54
Jun 21	84	60	79	56	81	54	80	57	74	54	77	51	Jul 21	95	65	94	62	93	58	91	60	95	63	95	54
Jun 22	77	53	72	52	73	50	71	53	71	50	70	49	Jul 22	93	60	94	64	90	59	90	62	96	61	92	56
Jun 23	76	46	76	53	75	50	73	54	74	49	73	53	Jul 23	93	61	91	62	87	56	89	62	96	59	88	54
Jun 24	79	44	75	51	77	47	75	52	75	49	75	47	Jul 24	95	60	89	60	86	55	87	58	97	58	86	57
Jun 25	80	45	76	52	77	47	75	54	76	50	73	50	Jul 25	91	53	89	57	86	53	85	55	97	55	87	54
Jun 26	86	54	80	48	80	48	80	50	78	49	80	48	Jul 26	93	60	91	60	89	54	88	58	98	59	90	53
Jun 27	88	52	86	49	88	50	86	47	86	50	88	47	Jul 27	95	59	95	59	93	52	91	57	98	59	94	52
Jun 28	89	51	87	58	90	55	86	53	86	56	84	50	Jul 28	96	62	96	60	94	55	92	59	96	60	95	53
Jun 29	87	56	85	58	86	55	85	57	83	57	79	54	Jul 29	95	61	94	63	89	57	90	63	96	63	88	59
Jun 30	91	58	88	60	90	57	87	58	86	58	82	56	Jul 30	95	62	89	61	86	58	86	62	97	58	85	58
													Jul 31	90	62	86	61	84	56	86	61	97	57	85	57

Table 2. 2012 County Weather Data - Daily Maximums and Minimums (°F). (continued)

	Glenn (Willows)		Colusa (Colusa)		Yolo (Woodland)		Butte (Durham)		Sutter, VE&IL (Nicolas)		San Joaquin (Woodbridge)	
	max	min	max	min	max	min	max	min	max	min	max	min
Aug 01	93	58	96	60	97	53	95	59	98	55	94	50
Aug 02	93	60	97	60	98	54	95	57	96	55	96	51
Aug 03	94	59	95	60	94	53	94	58	93	56	90	53
Aug 04	94	59	85	59	84	55	85	59	80	55	77	55
Aug 05	93	59	89	60	90	56	89	61	86	54	83	57
Aug 06	94	58	91	57	93	53	93	55	91	55	91	49
Aug 07	94	60	96	57	97	54	94	56	96	52	91	53
Aug 08	96	59	98	55	100	52	97	57	94	50	95	55
Aug 09	95	58	99	60	100	68	98	56	97	55	100	54
Aug 10	94	59	100	60	101	59	100	58	100	56	99	57
Aug 11	94	58	104	61	105	56	102	56	104	55	101	53
Aug 12	94	58	98	61	100	57	100	60	100	58	95	57
Aug 13	94	59	104	63	103	61	101	64	104	61	99	63
Aug 14	94	59	97	67	98	62	91	59	95	63	91	63
Aug 15	93	58	94	70	97	63	94	67	96	65	91	61
Aug 16	93	58	97	64	99	55	96	59	94	65	92	56
Aug 17	93	59	93	61	95	56	92	59	93	58	90	57
Aug 18	92	58	94	65	98	64	94	65	95	64	92	62
Aug 19	91	57	92	61	93	56	92	58	92	58	88	56
Aug 20	90	57	92	58	94	54	90	58	94	55	90	50
Aug 21	91	57	91	55	94	53	90	57	90	56	88	51
Aug 22	91	59	93	56	92	54	91	55	92	53	88	55
Aug 23	92	57	89	57	91	54	90	56	89	55	87	52
Aug 24	93	56	93	53	93	51	93	52	91	50	90	52
Aug 25	93	56	88	52	88	51	88	50	86	54	82	52
Aug 26	92	57	82	55	84	52	80	52	80	54	77	49
Aug 27	93	57	88	52	90	49	85	49	88	49	88	45
Aug 28	94	59	90	52	93	53	90	49	90	50	90	50
Aug 29	93	59	94	52	95	51	92	50	91	49	91	51
Aug 30	92	58	92	52	95	57	94	51	92	52	93	52
Aug 31	92	59	79	55	80	50	79	50	75	54	76	48
Oct 01	99	56	97	52	98	52	93	52	95	51	96	51
Oct 02	96	57	94	53	99	58	93	53	97	54	101	52
Oct 03	94	60	93	53	95	55	92	53	92	51	93	53
Oct 04	81	53	80	59	83	55	80	52	78	56	77	57
Oct 05	77	50	76	56	79	53	75	49	77	54	75	57
Oct 06	84	52	75	50	76	48	75	47	76	45	75	49
Oct 07	84	51	79	47	79	46	79	48	79	44	78	47
Oct 08	76	45	75	53	76	47	75	47	75	52	74	49
Oct 09	81	46	76	46	77	47	77	45	77	46	75	43
Oct 10	82	51	80	48	80	47	79	49	81	44	78	44
Oct 11	78	51	72	51	71	49	75	49	69	44	65	50
Oct 12	80	47	64	44	62	48	66	48	64	43	64	53
Oct 13	81	48	79	44	78	45	77	44	77	42	75	45
Oct 14	85	51	79	51	81	49	78	47	80	45	79	47
Oct 15	87	54	83	51	85	51	85	51	85	47	83	48
Oct 16	92	58	86	59	90	56	86	56	89	54	87	56
Oct 17	93	63	88	53	88	52	87	51	83	49	85	49
Oct 18	89	57	88	47	87	50	77	47	88	48	88	50
Oct 19	82	52	81	48	83	51	80	52	82	56	78	53
Oct 20	80	52	77	49	78	51	79	50	75	45	76	49
Oct 21	69	44	68	48	69	47	66	51	66	47	65	44
Oct 22	63	50	64	50	64	50	62	48	61	51	63	51
Oct 23	62	38	62	47	63	48	61	46	62	46	64	46
Oct 24	66	41	64	48	65	49	62	46	64	46	66	46
Oct 25	79	42	66	45	66	52	65	42	67	49	66	45
Oct 26	84	49	75	44	76	50	76	42	77	42	72	49
Oct 27	84	53	82	47	82	47	80	45	81	43	76	43
Oct 28	81	52	78	49	79	48	81	47	80	45	80	47
Oct 29	81	51	78	48	80	49	81	47	81	46	78	46
Oct 30	74	50	75	46	77	48	77	44	77	55	78	47
Oct 31	67	46	63	53	65	50	63	54	65	52	65	49

	Glenn (Willows)		Colusa (Colusa)		Yolo (Woodland)		Butte (Durham)		Sutter, VE&IL (Verona)		San Joaquin (Lodi, west)	
	max	min	max	min	max	min	max	min	max	min	max	min
Sep 01	89	49	82	49	84	49	81	49	78	48	79	46
Sep 02	93	59	89	49	93	48	86	48	91	45	91	46
Sep 03	93	58	92	53	95	50	90	52	92	50	95	48
Sep 04	96	56	93	53	96	51	95	51	96	49	91	51
Sep 05	90	57	88	52	89	50	88	51	87	51	85	51
Sep 06	91	57	88	55	90	57	88	57	89	58	87	54
Sep 07	92	51	92	49	93	51	91	51	94	50	88	53
Sep 08	91	59	91	59	93	57	91	57	91	58	86	55
Sep 09	95	50	88	58	91	55	87	54	89	57	85	51
Sep 10	94	52	93	49	94	50	90	48	92	46	89	45
Sep 11	93	56	91	50	94	54	91	50	94	46	90	48
Sep 12	95	54	93	53	94	54	90	53	92	60	88	51
Sep 13	96	60	95	55	99	56	92	55	97	53	94	54
Sep 14	92	62	90	57	94	54	89	58	94	58	90	58
Sep 15	92	52	90	55	94	55	90	55	93	58	91	51
Sep 16	94	56	90	51	93	50	91	50	93	48	89	49
Sep 17	94	58	91	52	90	51	88	51	88	52	82	51
Sep 18	89	52	90	51	89	50	87	51	89	50	81	51
Sep 19	88	51	86	50	88	50	86	51	86	49	82	44
Sep 20	89	50	89	49	89	49	87	49	87	48	85	48
Sep 21	90	56	88	58	90	50	88	50	89	49	87	51
Sep 22	90	55	92	50	93	51	92	52	90	50	92	54
Sep 23	92	58	89	57	92	52	89	57	89	55	90	51
Sep 24	95	55	88	51	88	50	90	50	87	50	83	47
Sep 25	95	57	92	52	94	52	92	51	88	47	87	47
Sep 26	93	56	89	54	90	51	87	53	89	53	86	49
Sep 27	96	58	93	53	96	54	93	53	92	50	91	50
Sep 28	96	62	96	55	94	54	93	53	95	51	84	52
Sep 29	98	55	96	53	96	53	90	52	90	53	89	51
Sep 30	99	55	94	53	97	54	96	52	95	52	93	50

Table 3. 2012 Four Location Very Early Advanced Rice Variety Tests

Advanced Lines and Varieties

Variety	Grain Type	Over All Ave		Single Location Yields					Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		14% Moisture lbs/acre	Biggs	Sutter	Yolo	San Joaquin							
09Y2141	SWX	10020 (1)	11130 (1)	9460 (5)	10590 (1)	8890 (3)	20.9 (4)	4.9 (10)	90 (8)	35 (14)	38 (17)		
M206	M	9660 (2)	10420 (4)	9320 (9)	9900 (4)	8990 (2)	20.6 (6)	5.0 (7)	92 (9)	21 (8)	37 (13)		
09Y2036	S	9610 (3)	10180 (9)	9640 (2)	9970 (3)	8640 (5)	19.1 (9)	4.9 (12)	89 (6)	59 (17)	38 (16)		
10Y3286	M	9600 (4)	10400 (5)	9370 (7)	10030 (2)	8600 (6)	19.0 (10)	4.9 (9)	88 (4)	2 (4)	36 (9)		
11Y1005	L	9480 (5)	10620 (3)	9630 (3)	9430 (10)	8240 (8)	18.0 (12)	4.8 (14)	93 (11)	2 (3)	37 (12)		
08Y3310	M	9390 (6)	10690 (2)	9360 (8)	9880 (5)	7630 (13)	20.8 (5)	5.0 (7)	94 (13)	1 (1)	35 (4)		
M104	M	9330 (7)	10260 (7)	8990 (12)	9610 (9)	8460 (7)	19.6 (7)	5.0 (5)	86 (3)	10 (7)	36 (7)		
08Y2049	SSR	9240 (8)	9430 (14)	9400 (6)	9350 (11)	8800 (4)	19.5 (8)	4.1 (16)	89 (5)	9 (5)	34 (3)		
06Y575	L	9210 (9)	9520 (12)	10030 (1)	8190 (16)	9080 (1)	19.0 (11)	4.0 (17)	99 (16)	10 (6)	38 (15)		
CH202	SPQ	9070 (10)	9460 (13)	9050 (11)	9750 (6)	8000 (11)	17.9 (13)	4.9 (13)	89 (7)	57 (16)	34 (2)		
L206	L	9050 (11)	10020 (11)	9570 (4)	9060 (13)	7570 (14)	16.8 (15)	4.6 (15)	92 (10)	1 (1)	32 (1)		
08Y3269	M	9050 (12)	10360 (6)	9190 (10)	9720 (7)	6910 (16)	21.7 (2)	4.9 (11)	96 (15)	23 (10)	37 (11)		
M202	M	8820 (13)	10050 (10)	8810 (14)	8930 (14)	7490 (15)	21.4 (3)	5.0 (2)	95 (14)	24 (11)	38 (14)		
CH201	SPQ	8730 (14)	8790 (16)	8350 (16)	8660 (8)	8070 (10)	17.6 (14)	5.0 (1)	94 (12)	49 (15)	35 (5)		
S102	S	8610 (15)	9370 (15)	8470 (15)	8400 (15)	8180 (9)	15.6 (17)	5.0 (3)	84 (1)	31 (12)	36 (10)		
M205	M	8260 (16)	10220 (8)	8940 (13)	9310 (12)	4570 (17)	22.8 (1)	5.0 (3)	99 (17)	23 (9)	35 (6)		
CM101	SPQ	7830 (17)	8500 (17)	7500 (17)	7450 (17)	7880 (12)	16.5 (16)	5.0 (6)	85 (2)	35 (13)	36 (8)		
MEAN		9110	9960	9120	9370	8000	19.2	4.8	91	23	36		
CV		4.7	6.1	3.2	4.5	4.1	5.5	2.5	1.2	66.4	3.8		
LSD (.05)		300	860	410	600	470	0.7	0.1	1	11	1		

Preliminary Lines and Varieties

10Y2043	S	10270 (1)	10930 (3)	10300 (1)	10960 (1)	8900 (3)	17.8 (30)	4.9 (29)	87 (4)	38 (28)	36 (5)
12Y20	L	9820 (2)	10290 (8)	10040 (3)	10710 (2)	8220 (19)	17.1 (31)	5.0 (1)	92 (25)	3 (3)	38 (27)
10Y3274	M	9780 (3)	10420 (5)	9480 (12)	9760 (11)	9470 (1)	19.0 (15)	4.9 (29)	90 (16)	35 (27)	39 (31)
10Y3452	M	9760 (4)	10420 (4)	9610 (5)	10160 (6)	8870 (4)	20.3 (4)	4.9 (26)	91 (23)	46 (32)	39 (32)
11Y1044	L	9730 (5)	11560 (1)	9750 (4)	9530 (16)	8060 (22)	16.5 (32)	5.0 (16)	94 (31)	10 (5)	36 (12)
10Y3469	M	9660 (6)	10970 (2)	9600 (6)	9880 (9)	8180 (20)	19.9 (7)	5.0 (16)	92 (26)	24 (18)	37 (15)
11Y2040	S	9530 (7)	9750 (20)	10070 (2)	9920 (8)	8390 (10)	18.6 (20)	4.9 (26)	84 (1)	12 (7)	36 (7)
10Y3394	M	9460 (8)	9770 (19)	9460 (13)	10180 (5)	8460 (9)	20.6 (2)	5.0 (16)	91 (22)	26 (19)	37 (16)
10Y3236	M	9460 (9)	10370 (7)	9500 (10)	10250 (4)	7740 (26)	19.2 (13)	5.0 (16)	87 (2)	21 (12)	38 (22)
10Y3558	M	9430 (10)	10080 (10)	9520 (9)	9010 (23)	9100 (2)	18.4 (24)	5.0 (6)	90 (18)	45 (31)	40 (33)
10Y3318	M	9380 (11)	9720 (21)	9450 (14)	10070 (7)	8290 (17)	20.2 (6)	5.0 (6)	91 (21)	29 (24)	39 (29)
M105	M	9360 (12)	9950 (14)	9590 (7)	9560 (15)	8340 (12)	18.6 (21)	5.0 (10)	87 (8)	29 (25)	37 (18)
10Y1008	LSR	9350 (13)	10370 (6)	9290 (18)	10500 (3)	7230 (31)	18.8 (17)	5.0 (1)	94 (32)	3 (2)	39 (28)
10Y3395	M	9330 (14)	10080 (9)	9220 (19)	9680 (13)	8330 (13)	20.5 (3)	5.0 (16)	90 (15)	26 (21)	38 (26)
11Y2022	MPQ	9240 (15)	9410 (27)	9480 (11)	9530 (17)	8540 (7)	19.8 (8)	5.0 (16)	92 (26)	23 (17)	38 (22)
10Y3292	M	9150 (16)	9980 (13)	9410 (15)	8900 (27)	8310 (15)	18.2 (25)	5.0 (10)	88 (9)	22 (16)	37 (19)
10Y3237	M	9140 (17)	9800 (17)	8760 (29)	9320 (18)	8680 (6)	17.8 (29)	4.9 (31)	87 (4)	8 (4)	36 (4)
10Y3332	M	9130 (18)	9920 (15)	9400 (16)	8890 (28)	8310 (14)	20.2 (5)	5.0 (10)	93 (29)	17 (10)	37 (17)
10Y3362	M	9110 (19)	9270 (30)	8710 (30)	9760 (10)	8710 (5)	18.5 (22)	5.0 (16)	87 (2)	11 (6)	37 (14)
10Y3566	M	9110 (20)	9540 (23)	8790 (28)	9750 (12)	8380 (11)	19.6 (9)	4.9 (34)	91 (23)	12 (8)	37 (20)
10Y3326	M	9050 (21)	9340 (29)	9340 (17)	9590 (14)	7940 (23)	17.9 (28)	5.0 (16)	88 (10)	18 (11)	36 (6)
10Y3387	M	9050 (22)	9770 (18)	8970 (24)	9180 (21)	8270 (18)	19.3 (12)	4.9 (26)	90 (18)	26 (21)	37 (21)
10Y3276	M	9040 (23)	10020 (11)	8990 (22)	9290 (19)	7860 (24)	19.1 (14)	5.0 (16)	89 (13)	21 (13)	36 (11)
10Y3437	M	8990 (24)	10000 (12)	9520 (8)	8840 (30)	7600 (27)	18.7 (19)	5.0 (10)	90 (14)	39 (29)	38 (24)
11Y2023	MPQ	8980 (25)	9410 (28)	9170 (20)	8870 (29)	8460 (8)	18.1 (26)	5.0 (1)	93 (28)	69 (34)	40 (34)
10Y3428	M	8870 (26)	9430 (26)	8960 (25)	9000 (25)	8110 (21)	18.5 (23)	5.0 (10)	88 (11)	27 (23)	37 (13)
10Y3241	M	8830 (27)	9120 (31)	8980 (23)	8910 (26)	8300 (16)	18.7 (18)	4.9 (25)	87 (4)	46 (33)	36 (9)
10Y3706	M	8770 (28)	9540 (24)	8990 (21)	9280 (20)	7280 (29)	18.8 (16)	4.9 (33)	94 (30)	21 (14)	36 (8)
10Y3287	M	8750 (29)	9620 (22)	8880 (26)	8660 (32)	7840 (25)	19.6 (10)	5.0 (6)	89 (12)	13 (9)	38 (25)
11Y2032	MPQ	8490 (30)	9810 (16)	8670 (32)	9000 (24)	6490 (33)	21.6 (1)	5.0 (1)	98 (34)	26 (19)	39 (30)
11Y2021	MPQ	8420 (31)	9480 (25)	8800 (27)	8800 (31)	6590 (32)	19.3 (11)	5.0 (6)	97 (33)	21 (14)	35 (3)
11Y2059	SPQ	8400 (32)	8440 (32)	8700 (31)	9150 (22)	7300 (28)	16.5 (33)	5.0 (10)	87 (7)	40 (30)	34 (1)
10Y2179	MBG	7750 (33)	8290 (33)	7460 (33)	8020 (33)	7240 (30)	17.9 (27)	4.9 (31)	90 (16)	2 (1)	36 (10)
CA201	SLA	6760 (34)	6050 (34)	7040 (34)	7840 (34)	6110 (34)	16.4 (34)	5.0 (1)	91 (20)	32 (26)	34 (2)
MEAN		9100	9730	9170	9430	8060	18.8	4.9	90	25	37
CV		5.1	6.7	2.1	5.4	4.5	4.8	1.3	0.8	49.5	3.6
LSD (.05)		460	1330	400	1040	750	0.9	0.1	1	12	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; SR = stem rot resistant; LA = Low Amalose; 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 4. 2012 Biggs-RES Very Early Advanced Rice Variety Trial

<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)
09Y2141	SWX	11130 (1)	20.4 (6)	4.8 (16)	82 (8)	11 (11)	37 (10)
08Y3310	M	10690 (2)	21.8 (5)	4.8 (12)	87 (14)	1 (1)	35 (7)
11Y1005	L	10620 (3)	16.9 (16)	4.8 (9)	83 (10)	3 (8)	37 (12)
M206	M	10420 (4)	22.2 (4)	4.8 (12)	84 (11)	1 (1)	38 (14)
10Y3286	M	10400 (5)	19.3 (8)	4.9 (7)	81 (4)	1 (1)	36 (9)
08Y3269	M	10360 (6)	22.5 (3)	4.8 (9)	86 (12)	1 (1)	38 (15)
M104	M	10260 (7)	18.5 (11)	4.9 (6)	78 (2)	16 (12)	35 (5)
M205	M	10220 (8)	23.7 (1)	4.9 (3)	88 (16)	1 (1)	37 (13)
09Y2036	S	10180 (9)	17.3 (15)	4.7 (17)	82 (7)	68 (17)	37 (11)
M202	M	10050 (10)	22.7 (2)	4.9 (2)	89 (17)	8 (10)	41 (17)
L206	L	10020 (11)	17.5 (13)	4.8 (9)	81 (5)	1 (1)	33 (2)
06Y575	L	9520 (12)	18.9 (9)	4.8 (12)	87 (15)	1 (1)	40 (16)
CH202	SPQ	9460 (13)	18.2 (12)	4.8 (12)	83 (9)	60 (16)	33 (1)
08Y2049	SSR	9430 (14)	20.3 (7)	4.9 (7)	81 (5)	3 (8)	34 (3)
S102	S	9370 (15)	15.2 (17)	4.9 (3)	78 (1)	53 (15)	35 (4)
CH201	SPQ	8790 (16)	18.7 (10)	5.0 (1)	86 (12)	50 (14)	35 (5)
CM101	SWX	8500 (17)	17.5 (14)	4.9 (3)	79 (3)	45 (13)	35 (7)
MEAN		9960	19.5	4.8	83	19	36
CV		6.1	9.2	1.2	2	81.1	4.3
LSD (.05)		860	2.6	0.1	2	22	2
<i>Preliminary Lines and Varieties</i>							
11Y1044	L	11560 (1)	16.8 (32)	4.8 (29)	85 (28)	1 (1)	38 (25)
10Y3469	M	10970 (2)	20.2 (8)	4.8 (19)	85 (27)	1 (1)	36 (6)
10Y2043	S	10930 (3)	17.1 (29)	4.8 (19)	78 (1)	16 (30)	35 (3)
10Y3452	M	10420 (4)	21.6 (1)	4.9 (10)	83 (22)	30 (32)	40 (32)
10Y3274	M	10420 (5)	19.6 (11)	4.8 (19)	82 (14)	11 (29)	39 (30)
10Y1008	LSR	10370 (6)	18.4 (18)	4.9 (5)	84 (26)	1 (1)	39 (29)
10Y3236	M	10370 (7)	16.5 (33)	4.8 (19)	78 (1)	1 (1)	36 (16)
12Y20	L	10290 (8)	18.1 (22)	4.9 (4)	83 (22)	1 (1)	38 (26)
10Y3395	M	10080 (9)	20.1 (9)	4.8 (19)	82 (16)	1 (1)	38 (27)
10Y3558	M	10080 (10)	20.6 (7)	4.9 (5)	82 (16)	6 (25)	39 (31)
10Y3276	M	10020 (11)	19.6 (11)	4.8 (19)	81 (11)	1 (1)	36 (13)
10Y3437	M	10000 (12)	19.7 (10)	4.9 (10)	83 (18)	6 (25)	37 (18)
10Y3292	M	9980 (13)	17.5 (26)	4.9 (10)	81 (9)	1 (1)	36 (10)
M105	M	9950 (14)	18.0 (23)	4.9 (10)	80 (7)	1 (1)	35 (5)
10Y3332	M	9920 (15)	20.8 (5)	4.9 (10)	86 (32)	1 (1)	37 (21)
11Y2032	MPQ	9810 (16)	21.4 (2)	5.0 (1)	87 (33)	1 (1)	41 (33)
10Y3237	M	9800 (17)	17.1 (30)	4.7 (33)	79 (6)	1 (1)	35 (4)
10Y3387	M	9770 (18)	18.1 (21)	4.9 (10)	81 (11)	1 (1)	36 (16)
10Y3394	M	9770 (19)	20.8 (6)	4.8 (19)	83 (18)	1 (1)	36 (10)
11Y2040	S	9750 (20)	18.3 (20)	4.9 (10)	78 (1)	1 (1)	36 (13)
10Y3318	M	9720 (21)	21.0 (4)	4.9 (5)	83 (18)	6 (25)	39 (28)
10Y3287	M	9620 (22)	18.7 (17)	4.9 (5)	81 (11)	1 (1)	37 (18)
10Y3566	M	9540 (23)	19.4 (13)	4.8 (30)	83 (18)	1 (1)	37 (22)
10Y3706	M	9540 (24)	18.4 (18)	4.8 (30)	85 (29)	1 (1)	37 (22)
11Y2021	MPQ	9480 (25)	21.3 (3)	4.9 (5)	88 (34)	1 (1)	38 (24)
10Y3428	M	9430 (26)	17.8 (24)	4.9 (10)	80 (8)	6 (25)	37 (18)
11Y2022	MPQ	9410 (27)	19.2 (14)	4.8 (19)	84 (25)	1 (1)	36 (8)
11Y2023	MPQ	9410 (28)	19.1 (15)	5.0 (1)	86 (31)	85 (34)	42 (34)
10Y3326	M	9340 (29)	17.1 (28)	4.8 (19)	81 (9)	1 (1)	36 (10)
10Y3362	M	9270 (30)	16.5 (34)	4.8 (19)	78 (1)	1 (1)	36 (13)
10Y3241	M	9120 (31)	18.9 (16)	4.8 (30)	78 (5)	45 (33)	36 (6)
11Y2059	SPQ	8440 (32)	16.9 (31)	4.9 (10)	82 (14)	1 (1)	32 (1)
10Y2179	MBG	8290 (33)	17.7 (25)	4.7 (33)	85 (29)	1 (1)	36 (8)
CA201	SLA	6050 (34)	17.3 (27)	5.0 (1)	83 (22)	25 (31)	34 (2)
MEAN		9730	18.8	4.8	82	8	37
CV		6.7	7.9	1.2	0.9	119.5	4.6
LSD (.05)		1330	3	0.1	2	18	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; SR = stem rot resistant; LA = Low Amalose; 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 5. 2012 Sutter Very Early Advanced Rice Variety Trial

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)
06Y575	L	10030 (1)	16.4 (14)	5.0 (1)	89 (16)	38 (14)	36 (16)
09Y2036	S	9640 (2)	20.0 (5)	4.9 (13)	82 (5)	69 (16)	35 (13)
11Y1005	L	9630 (3)	17.4 (12)	4.9 (13)	84 (8)	1 (1)	36 (17)
L206	L	9570 (4)	15.1 (17)	4.9 (13)	83 (6)	1 (1)	32 (1)
09Y2141	SWX	9460 (5)	21.2 (1)	5.0 (1)	85 (10)	34 (13)	36 (15)
08Y2049	SSR	9400 (6)	18.7 (10)	5.0 (1)	79 (3)	30 (12)	35 (10)
10Y3286	M	9370 (7)	19.4 (8)	4.9 (13)	84 (8)	1 (1)	34 (9)
08Y3310	M	9360 (8)	19.1 (9)	5.0 (1)	86 (12)	1 (1)	33 (3)
M206	M	9320 (9)	19.8 (7)	5.0 (1)	86 (11)	14 (9)	35 (13)
08Y3269	M	9190 (10)	20.1 (4)	4.9 (17)	88 (14)	3 (8)	34 (8)
CH202	SPQ	9050 (11)	17.9 (11)	5.0 (1)	84 (7)	70 (17)	34 (5)
M104	M	8990 (12)	20.4 (3)	5.0 (1)	82 (4)	2 (7)	35 (10)
M205	M	8940 (13)	19.9 (6)	5.0 (1)	90 (17)	1 (1)	34 (4)
M202	M	8810 (14)	21.1 (2)	5.0 (1)	87 (13)	1 (1)	34 (7)
S102	S	8470 (15)	15.1 (16)	5.0 (1)	78 (1)	15 (10)	35 (12)
CH201	SPQ	8350 (16)	17.2 (13)	5.0 (1)	89 (15)	46 (15)	32 (2)
CM101	SWX	7500 (17)	15.7 (15)	5.0 (1)	78 (2)	19 (11)	34 (6)
MEAN		9120	18.5	5.0	84	20	34
CV		3.2	4.3	1.5	0.8	102.7	4.6
LSD (.05)		410	1.1		1	30	2

Preliminary Lines and Varieties

10Y2043	S	10300 (1)	18.2 (23)	4.9 (29)	80 (3)	35 (28)	34 (6)
11Y2040	S	10070 (2)	17.9 (24)	5.0 (1)	75 (1)	6 (21)	34 (11)
12Y20	L	10040 (3)	15.4 (33)	5.0 (1)	86 (22)	1 (1)	36 (27)
11Y1044	L	9750 (4)	15.4 (32)	5.0 (1)	86 (23)	1 (1)	35 (21)
10Y3452	M	9610 (5)	18.4 (21)	5.0 (1)	86 (23)	53 (31)	35 (23)
10Y3469	M	9600 (6)	18.5 (19)	5.0 (1)	86 (23)	10 (23)	35 (18)
M105	M	9590 (7)	18.8 (14)	5.0 (1)	82 (5)	21 (26)	36 (31)
10Y3437	M	9520 (8)	17.6 (28)	5.0 (1)	84 (16)	50 (29)	35 (19)
10Y3558	M	9520 (9)	17.7 (27)	5.0 (1)	85 (19)	75 (33)	37 (33)
10Y3236	M	9500 (10)	20.9 (3)	5.0 (1)	81 (4)	1 (1)	36 (32)
11Y2022	MPQ	9480 (11)	19.9 (6)	5.0 (1)	86 (23)	1 (1)	35 (21)
10Y3274	M	9480 (12)	19.9 (6)	4.9 (29)	84 (14)	30 (27)	38 (34)
10Y3394	M	9460 (13)	20.5 (4)	5.0 (1)	84 (16)	16 (25)	35 (15)
10Y3318	M	9450 (14)	18.9 (13)	5.0 (1)	83 (12)	11 (24)	36 (27)
10Y3292	M	9410 (15)	18.6 (17)	5.0 (1)	83 (7)	1 (1)	35 (23)
10Y3332	M	9400 (16)	19.6 (9)	5.0 (1)	86 (23)	1 (1)	34 (8)
10Y3326	M	9340 (17)	18.4 (20)	5.0 (1)	83 (7)	6 (21)	34 (6)
10Y1008	LSR	9290 (18)	18.7 (16)	5.0 (1)	86 (23)	1 (1)	36 (27)
10Y3395	M	9220 (19)	21.3 (1)	5.0 (1)	84 (16)	3 (18)	35 (19)
11Y2023	MPQ	9170 (20)	17.2 (29)	5.0 (1)	86 (23)	93 (34)	36 (27)
10Y3706	M	8990 (21)	17.8 (26)	4.8 (34)	86 (23)	1 (1)	33 (4)
10Y3276	M	8990 (22)	19.2 (11)	5.0 (1)	83 (7)	1 (1)	33 (5)
10Y3241	M	8980 (23)	18.6 (17)	5.0 (1)	79 (2)	50 (29)	34 (8)
10Y3387	M	8970 (24)	19.2 (11)	4.9 (29)	85 (19)	3 (18)	35 (15)
10Y3428	M	8960 (25)	18.8 (14)	5.0 (1)	83 (12)	1 (1)	34 (11)
10Y3287	M	8880 (26)	21.1 (2)	5.0 (1)	84 (14)	1 (1)	35 (23)
11Y2021	MPQ	8800 (27)	17.0 (30)	5.0 (1)	87 (33)	1 (1)	32 (2)
10Y3566	M	8790 (28)	20.0 (5)	4.9 (29)	86 (23)	1 (1)	34 (14)
10Y3237	M	8760 (29)	17.9 (25)	4.9 (29)	83 (7)	1 (1)	34 (8)
10Y3362	M	8710 (30)	19.6 (9)	5.0 (1)	83 (7)	1 (1)	34 (13)
11Y2059	SPQ	8700 (31)	15.8 (31)	5.0 (1)	82 (5)	60 (32)	32 (2)
11Y2032	MPQ	8670 (32)	19.9 (6)	5.0 (1)	87 (33)	1 (1)	36 (26)
10Y2179	MBG	7460 (33)	18.3 (22)	5.0 (1)	85 (19)	1 (1)	35 (15)
CA201	SLA	7040 (34)	15.4 (34)	5.0 (1)	86 (23)	3 (18)	32 (1)
MEAN		9170	18.6	5.0	84	16	35
CV		2.1	3.2	1.9	0.6	97.7	2.3
LSD (.05)		400	1.2		1	31	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; SR = stem rot resistant; LA = Low Amalose; 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 6. 2012 Yolo Very Early Advanced Rice Variety Trial

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)
09Y2141	SWX	10590 (1)	19.9 (1)	5.0 (1)	91 (8)	96 (14)	44 (16)
10Y3286	M	10030 (2)	17.3 (12)	5.0 (1)	88 (6)	4 (6)	41 (11)
09Y2036	S	9970 (3)	18.2 (6)	5.0 (1)	88 (5)	97 (15)	44 (17)
M206	M	9900 (4)	18.4 (4)	5.0 (1)	91 (8)	69 (9)	42 (14)
08Y3310	M	9880 (5)	17.6 (8)	5.0 (1)	91 (10)	1 (1)	39 (5)
CH202	SPQ	9750 (6)	16.9 (13)	4.8 (13)	85 (4)	98 (16)	38 (3)
08Y3269	M	9720 (7)	17.8 (7)	5.0 (1)	92 (11)	89 (12)	42 (13)
CH201	SPQ	9660 (8)	16.6 (14)	5.0 (1)	93 (13)	99 (17)	41 (11)
M104	M	9610 (9)	17.6 (8)	5.0 (1)	84 (3)	23 (7)	39 (4)
11Y1005	L	9430 (10)	17.3 (11)	4.3 (14)	97 (15)	1 (1)	40 (7)
08Y2049	SSR	9350 (11)	18.7 (3)	1.6 (16)	94 (14)	1 (1)	37 (2)
M205	M	9310 (12)	18.3 (5)	5.0 (1)	93 (12)	89 (12)	41 (9)
L206	L	9060 (13)	15.9 (15)	3.5 (15)	97 (15)	1 (1)	34 (1)
M202	M	8930 (14)	17.4 (10)	5.0 (1)	90 (7)	87 (11)	43 (15)
S102	S	8400 (15)	15.5 (16)	5.0 (1)	83 (1)	56 (8)	41 (10)
06Y575	L	8190 (16)	19.8 (2)	1.4 (17)	110 (17)	1 (1)	40 (6)
CM101	SWX	7450 (17)	15.0 (17)	4.9 (12)	84 (2)	76 (10)	40 (8)
MEAN		9370	17.5	4.4	91	52	40
CV		4.5	2.4	4.9	0.8	31.5	2.9
LSD (.05)		600	0.6	0.3	1	23	2

Preliminary Lines and Varieties

10Y2043	S	10960 (1)	17.0 (29)	5.0 (1)	90 (21)	99 (22)	41 (8)
12Y20	L	10710 (2)	15.9 (32)	5.0 (1)	93 (30)	11 (3)	44 (28)
10Y1008	LSR	10500 (3)	17.2 (26)	5.0 (1)	94 (32)	10 (2)	45 (30)
10Y3236	M	10250 (4)	18.3 (12)	5.0 (1)	88 (9)	80 (12)	43 (20)
10Y3394	M	10180 (5)	19.3 (1)	5.0 (1)	92 (28)	85 (16)	42 (14)
10Y3452	M	10160 (6)	18.8 (5)	4.9 (31)	89 (13)	99 (22)	46 (32)
10Y3318	M	10070 (7)	18.8 (5)	5.0 (1)	89 (13)	99 (22)	45 (31)
11Y2040	S	9920 (8)	17.9 (17)	4.9 (31)	84 (1)	40 (6)	41 (9)
10Y3469	M	9880 (9)	18.8 (5)	5.0 (1)	91 (25)	85 (18)	43 (19)
10Y3362	M	9760 (10)	17.2 (24)	5.0 (1)	85 (3)	40 (6)	41 (9)
10Y3274	M	9760 (11)	17.3 (21)	5.0 (1)	90 (21)	99 (22)	43 (23)
10Y3566	M	9750 (12)	19.0 (4)	4.9 (31)	92 (27)	45 (8)	42 (14)
10Y3395	M	9680 (13)	19.2 (2)	5.0 (1)	89 (13)	99 (22)	44 (26)
10Y3326	M	9590 (14)	17.2 (24)	5.0 (1)	88 (9)	65 (10)	41 (9)
M105	M	9560 (15)	17.3 (22)	5.0 (1)	85 (5)	95 (21)	42 (14)
11Y1044	L	9530 (16)	15.5 (34)	5.0 (1)	97 (34)	35 (5)	39 (4)
11Y2022	MPQ	9530 (17)	19.2 (3)	5.0 (1)	90 (21)	90 (19)	44 (25)
10Y3237	M	9320 (18)	17.1 (27)	5.0 (1)	85 (3)	31 (4)	41 (5)
10Y3276	M	9290 (19)	17.9 (15)	5.0 (1)	89 (13)	80 (13)	43 (18)
10Y3706	M	9280 (20)	17.3 (22)	5.0 (1)	91 (24)	83 (14)	41 (7)
10Y3387	M	9180 (21)	18.7 (8)	5.0 (1)	89 (13)	99 (22)	41 (9)
11Y2059	SPQ	9150 (22)	16.2 (31)	5.0 (1)	84 (2)	99 (22)	39 (2)
10Y3558	M	9010 (23)	17.5 (18)	5.0 (1)	89 (13)	99 (22)	46 (33)
11Y2032	MPQ	9000 (24)	18.6 (9)	5.0 (1)	96 (33)	99 (22)	44 (28)
10Y3428	M	9000 (25)	18.4 (11)	5.0 (1)	88 (11)	99 (22)	41 (6)
10Y3241	M	8910 (26)	17.5 (19)	5.0 (1)	85 (5)	90 (19)	42 (14)
10Y3292	M	8900 (27)	18.2 (13)	5.0 (1)	86 (7)	85 (16)	43 (23)
10Y3332	M	8890 (28)	18.2 (13)	5.0 (1)	90 (20)	65 (10)	43 (20)
11Y2023	MPQ	8870 (29)	16.9 (30)	5.0 (1)	93 (30)	99 (22)	47 (34)
10Y3437	M	8840 (30)	17.9 (15)	5.0 (1)	87 (8)	99 (22)	43 (20)
11Y2021	MPQ	8800 (31)	18.6 (9)	5.0 (1)	92 (28)	83 (14)	39 (1)
10Y3287	M	8660 (32)	17.5 (19)	5.0 (1)	88 (11)	50 (9)	44 (26)
10Y2179	MBG	8020 (33)	17.1 (27)	4.9 (31)	91 (25)	3 (1)	42 (13)
CA201	SLA	7840 (34)	15.6 (33)	5.0 (1)	89 (13)	99 (22)	39 (2)
MEAN		9430	17.7	5.0	89	75	43
CV		5.4	4.1	1.4	0.7	22.4	3.8
LSD (.05)		1040	1.5		1	34	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; SR = stem rot resistant, LA = Low Amalose; 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 7. 2012 San Joaquin Very Early Advanced Rice Variety Trial

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)
06Y575	L	9080 (1)	20.8 (8)	5.0 (1)	109 (13)	1 (1)	35 (16)
M206	M	8990 (2)	22.1 (6)	5.0 (1)	106 (9)	1 (1)	34 (13)
09Y2141	SWX	8890 (3)	22.2 (5)	5.0 (1)	102 (6)	1 (1)	37 (17)
08Y2049	SSR	8800 (4)	20.4 (10)	5.0 (1)	100 (2)	1 (1)	31 (5)
09Y2036	S	8640 (5)	20.8 (9)	5.0 (1)	104 (7)	1 (1)	35 (15)
10Y3286	M	8600 (6)	20.2 (11)	5.0 (1)	100 (2)	1 (1)	32 (7)
M104	M	8460 (7)	21.9 (7)	5.0 (1)	100 (4)	1 (1)	33 (11)
11Y1005	L	8240 (8)	20.2 (12)	5.0 (1)	106 (9)	1 (1)	34 (14)
S102	S	8180 (9)	16.7 (17)	5.0 (1)	99 (1)	1 (1)	34 (12)
CH201	SPQ	8070 (10)	18.0 (15)	5.0 (1)	107 (12)	1 (1)	31 (3)
CH202	SPQ	8000 (11)	18.8 (13)	5.0 (1)	105 (8)	1 (1)	32 (6)
CM101	SWX	7880 (12)	17.7 (16)	5.0 (1)	101 (5)	1 (1)	33 (9)
08Y3310	M	7630 (13)	24.6 (3)	5.0 (1)	114 (14)	1 (1)	31 (4)
L206	L	7570 (14)	18.7 (14)	5.0 (1)	106 (9)	1 (1)	30 (1)
M202	M	7490 (15)	24.2 (4)	5.0 (1)	115 (15)	1 (1)	33 (9)
08Y3269	M	6910 (16)	26.2 (2)	5.0 (1)	118 (16)	1 (1)	32 (8)
M205	M	4570 (17)	29.3 (1)	5.0 (1)	126 (17)	1 (1)	30 (2)
MEAN		8000	21.3	5.0	107	1	33
CV		4.1	3.3		0.9		3.4
LSD (.05)		470	1		1		2

Preliminary Lines and Varieties

10Y3274	M	9470 (1)	19.4 (22)	5.0 (1)	106 (17)	1 (1)	36 (32)
10Y3558	M	9100 (2)	17.9 (32)	5.0 (1)	106 (17)	1 (1)	36 (30)
10Y2043	S	8900 (3)	18.9 (26)	5.0 (1)	99 (1)	1 (1)	34 (14)
10Y3452	M	8870 (4)	22.4 (2)	5.0 (1)	108 (26)	1 (1)	36 (29)
10Y3362	M	8710 (5)	20.9 (13)	5.0 (1)	102 (6)	1 (1)	34 (16)
10Y3237	M	8680 (6)	19.3 (24)	5.0 (1)	101 (5)	1 (1)	33 (6)
11Y2022	MPQ	8540 (7)	21.1 (11)	5.0 (1)	109 (29)	1 (1)	35 (28)
11Y2023	MPQ	8460 (8)	19.4 (22)	5.0 (1)	107 (24)	1 (1)	37 (33)
10Y3394	M	8460 (9)	21.9 (5)	5.0 (1)	107 (22)	1 (1)	35 (23)
11Y2040	S	8390 (10)	20.3 (16)	5.0 (1)	102 (6)	1 (1)	33 (5)
10Y3566	M	8380 (11)	20.2 (18)	5.0 (1)	106 (17)	1 (1)	35 (27)
M105	M	8340 (12)	20.4 (15)	5.0 (1)	102 (6)	1 (1)	35 (22)
10Y3395	M	8330 (13)	21.2 (9)	5.0 (1)	105 (16)	1 (1)	34 (16)
10Y3332	M	8310 (14)	22.3 (3)	5.0 (1)	112 (30)	1 (1)	34 (10)
10Y3292	M	8310 (15)	18.3 (31)	5.0 (1)	103 (10)	1 (1)	34 (13)
10Y3241	M	8300 (16)	19.7 (19)	5.0 (1)	105 (14)	1 (1)	34 (10)
10Y3318	M	8290 (17)	22.2 (4)	5.0 (1)	109 (28)	1 (1)	35 (23)
10Y3387	M	8270 (18)	21.1 (11)	5.0 (1)	107 (22)	1 (1)	37 (34)
12Y20	L	8220 (19)	18.8 (27)	5.0 (1)	106 (17)	1 (1)	34 (16)
10Y3469	M	8180 (20)	21.9 (5)	5.0 (1)	107 (24)	1 (1)	34 (14)
10Y3428	M	8110 (21)	19.1 (25)	5.0 (1)	103 (10)	1 (1)	34 (16)
11Y1044	L	8060 (22)	18.4 (30)	5.0 (1)	108 (26)	1 (1)	33 (6)
10Y3326	M	7940 (23)	18.7 (28)	5.0 (1)	102 (9)	1 (1)	33 (6)
10Y3276	M	7860 (24)	19.6 (20)	5.0 (1)	105 (14)	1 (1)	33 (6)
10Y3287	M	7840 (25)	21.2 (9)	5.0 (1)	104 (12)	1 (1)	35 (26)
10Y3236	M	7740 (26)	21.3 (8)	5.0 (1)	100 (3)	1 (1)	34 (16)
10Y3437	M	7600 (27)	19.5 (21)	5.0 (1)	106 (21)	1 (1)	36 (30)
11Y2059	SPQ	7300 (28)	17.1 (34)	5.0 (1)	100 (3)	1 (1)	31 (1)
10Y3706	M	7280 (29)	21.6 (7)	5.0 (1)	113 (32)	1 (1)	34 (10)
10Y2179	MBG	7240 (30)	18.6 (29)	5.0 (1)	100 (2)	1 (1)	33 (4)
10Y1008	LSR	7230 (31)	20.7 (14)	5.0 (1)	112 (30)	1 (1)	34 (16)
11Y2021	MPQ	6590 (32)	20.3 (17)	5.0 (1)	120 (33)	1 (1)	31 (1)
11Y2032	MPQ	6490 (33)	26.3 (1)	5.0 (1)	122 (34)	1 (1)	35 (23)
CA201	SLA	6110 (34)	17.2 (33)	5.0 (1)	104 (13)	1 (1)	32 (3)
MEAN		8060	20.2	5.0	106	1	34
CV		4.5	2.2		0.9		2.6
LSD (.05)		750	0.9		2		2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; SR = stem rot resistant; LA = Low Amalose; 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 8. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2008-2012)

Location	Year	M-104	M-202	M-206	Calmochi			L-206
					101	S-102	L-205	
Biggs (RES)	2008	10000	10170	10900	9960	10240	10010	11180
	2009	7180	8080	8940	7640	8230	9430	9710
	2010	-	10470	11290	9470	9380	10140	10200
	2011*	-	-	-	-	-	-	-
	2012	10260	10050	10420	8500	9370	-	10020
Location Mean		9147	9693	10388	8893	9305	9860	10278
Sutter	2008	10100	9540	9800	10010	10190	9490	9840
	2009	10040	9070	9390	7870	8480	9070	10160
	2010	8270	6520	7890	9500	9360	7450	8050
	2011*	-	-	-	-	-	-	-
	2012	8990	8810	9320	7500	8470	-	9570
Location Mean		9350	8485	9100	8720	9125	8670	9405
Yolo	2008	9930	10140	10480	9830	10340	9590	10210
	2009	11770	11400	12570	10760	11930	11220	10880
	2010	8050	7890	8210	7190	7520	7390	8230
	2011	10020	9590	10230	9320	9050	-	9490
	2012	9610	8930	9900	7450	8400	-	9060
Location Mean		9876	9590	10278	8910	9448	9400	9574
San Joaquin	2008	9780	7770	9360	9470	10000	7580	8160
	2009	8530	8720	8440	7650	7480	6970	8120
	2010	8360	7760	7560	8070	7950	5970	8170
	2011	8800	9090	9330	7850	7760	-	8340
	2012	8460	7490	8990	7880	8180	-	7570
Location Mean		8786	8166	8736	8184	8274	6840	8072
Loc/Years Mean		9303	8972	9612	8662	9018	8693	9276
Yield % M-104		100.0	96.4	103.3	93.1	96.9	93.4	99.7
Number of Tests		17	18	18	18	18	12	18

* Test locations not included in 2011 due to very high yield cvs.

Table 9. 2012 Four Location Early Advanced Rice Variety Tests

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain Yield at 14% Moisture		Single Location Yields				Ave Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre		Biggs	Butte	Colusa	Yuba					
11Y1008	L	10180 (1)		11650 (1)	10100 (3)	9500 (5)	9460 (2)	17.3 (16)	4.9 (5)	83 (5)	24 (7)	39 (10)
09Y1122	L	9940 (2)		11350 (2)	9810 (5)	9340 (8)	9240 (5)	18.4 (12)	4.9 (6)	86 (9)	7 (4)	36 (1)
06Y575	L	9900 (3)		10400 (8)	9650 (6)	9990 (2)	9560 (1)	18.9 (11)	5.0 (2)	88 (12)	2 (3)	41 (16)
08Y3269	M	9800 (4)		9870 (11)	10210 (1)	10100 (1)	9010 (9)	21.2 (4)	4.9 (13)	90 (15)	17 (6)	38 (6)
09Y2141	SWX	9790 (5)		11060 (3)	10050 (4)	8680 (11)	9350 (4)	22.0 (2)	4.7 (16)	82 (4)	73 (13)	42 (17)
08Y3126	M	9770 (6)		10690 (4)	9470 (8)	9480 (6)	9460 (3)	20.8 (7)	4.9 (8)	84 (7)	65 (12)	41 (14)
L206	L	9600 (7)		10510 (6)	9380 (9)	9400 (7)	9100 (8)	17.8 (14)	4.9 (11)	83 (6)	52 (10)	36 (2)
M206	M	9530 (8)		9980 (10)	9240 (11)	9680 (3)	9240 (6)	20.7 (8)	4.9 (11)	84 (7)	52 (9)	41 (13)
M205	M	9520 (9)		10530 (5)	9600 (7)	9130 (9)	8840 (10)	22.0 (3)	4.9 (3)	91 (16)	14 (5)	38 (7)
09Y2179	S	9270 (10)		10280 (9)	10190 (2)	9650 (4)	6960 (16)	20.9 (5)	4.9 (9)	89 (14)	1 (1)	40 (12)
M202	M	9070 (11)		9770 (12)	8650 (13)	8630 (12)	9220 (7)	20.8 (6)	4.9 (4)	87 (11)	60 (11)	41 (15)
09Y3887	M	8860 (12)		10470 (7)	9320 (10)	7460 (15)	8170 (12)	23.3 (1)	4.9 (9)	91 (17)	1 (2)	38 (4)
09Y2159	SLA	8720 (13)		9430 (14)	8880 (12)	8760 (10)	7810 (14)	17.9 (13)	4.3 (17)	89 (13)	33 (8)	39 (9)
CH202	SPQ	8390 (14)		9000 (15)	8630 (14)	7370 (17)	8540 (11)	19.5 (10)	4.8 (15)	82 (3)	91 (15)	37 (3)
S102	S	8290 (15)		9500 (13)	8220 (15)	7460 (14)	7970 (13)	15.9 (17)	4.9 (7)	78 (1)	88 (14)	39 (11)
CM101	SWX	7690 (16)		8520 (17)	7190 (17)	7700 (13)	7360 (15)	17.4 (15)	4.9 (14)	80 (2)	92 (17)	39 (8)
CH201	SPQ	7570 (17)		8680 (16)	8080 (16)	7430 (16)	6080 (17)	19.8 (9)	5.0 (1)	86 (10)	92 (16)	38 (5)
MEAN		9170		10100	9220	8810	8550	19.7	4.9	85	45	39
CV		5.6		7.5	3.8	5.3	4.5	6.2	3.3	1.3	38.1	3.3
LSD (.05)		360		1070	500	660	550	0.9	0.1	1	12	1

Preliminary Lines and Varieties

11Y1076	L	9710 (1)		10660 (1)	9920 (1)	8920 (19)	9320 (3)	17.7 (35)	4.9 (20)	83 (5)	14 (11)	41 (32)
11P509	M-blst	9620 (2)		10150 (14)	9580 (5)	9550 (4)	9180 (4)	20.7 (14)	4.9 (18)	85 (9)	43 (25)	40 (18)
09Y3805	M	9600 (3)		10590 (2)	9470 (9)	9210 (15)	9110 (6)	21.2 (11)	4.9 (16)	89 (29)	3 (9)	40 (20)
12Y84	L	9590 (4)		9650 (26)	9720 (3)	9140 (17)	9840 (1)	17.6 (36)	4.8 (31)	85 (9)	18 (14)	41 (28)
11P503	M-blst	9550 (5)		10420 (9)	9120 (17)	10020 (1)	8630 (11)	21.5 (8)	4.9 (14)	86 (19)	51 (30)	41 (24)
09Y3517	M	9470 (6)		10100 (15)	9150 (16)	9540 (6)	9110 (5)	20.6 (16)	4.8 (26)	84 (8)	43 (25)	41 (22)
11P507	M-blst	9450 (7)		10360 (11)	8880 (21)	9670 (3)	8900 (7)	20.5 (17)	4.9 (18)	85 (17)	40 (23)	41 (31)
12y82	L	9420 (8)		10390 (10)	9320 (10)	9440 (9)	8530 (14)	18.9 (28)	4.8 (26)	90 (32)	1 (1)	36 (4)
10Y3754	M	9410 (9)		9860 (22)	9220 (14)	9750 (2)	8810 (9)	20.2 (19)	4.7 (32)	85 (16)	42 (24)	41 (29)
11Y2182	MPQ	9390 (10)		10430 (8)	9690 (4)	8010 (25)	9420 (2)	21.0 (12)	3.8 (38)	94 (34)	14 (11)	38 (8)
10Y3622	M	9360 (11)		9870 (21)	9230 (13)	9460 (8)	8890 (8)	20.0 (21)	4.8 (26)	85 (9)	51 (29)	40 (19)
10Y3729	M	9300 (12)		10330 (12)	8770 (24)	9550 (5)	8550 (13)	22.2 (3)	4.9 (23)	89 (28)	39 (21)	39 (11)
12Y81	L	9270 (13)		9940 (19)	8920 (20)	9490 (7)	8730 (10)	18.7 (31)	4.9 (7)	84 (6)	2 (7)	42 (37)
11P498	M-blst	9220 (14)		10450 (6)	9170 (15)	9010 (18)	8250 (17)	21.8 (5)	4.9 (7)	85 (14)	50 (27)	42 (33)
M105	M	9220 (15)		10250 (13)	9490 (8)	8620 (21)	8510 (15)	19.6 (22)	4.9 (20)	80 (2)	81 (36)	41 (24)
11Y1096	LA	9180 (16)		10480 (3)	9730 (2)	9200 (16)	7320 (27)	17.7 (34)	5.0 (4)	85 (9)	2 (7)	42 (36)
11Y2112	MPQ	9160 (17)		9740 (23)	9320 (11)	9430 (10)	8140 (19)	21.9 (4)	4.9 (7)	90 (31)	27 (18)	39 (12)
10Y3722	M	9150 (18)		9720 (24)	9570 (6)	9280 (13)	8030 (21)	20.2 (20)	4.8 (29)	86 (19)	40 (22)	40 (17)
10Y3536	M	9140 (19)		10470 (4)	9290 (12)	8670 (20)	8120 (20)	20.7 (15)	4.9 (23)	84 (7)	70 (34)	42 (34)
11Y1049	LA	9130 (20)		9990 (16)	9040 (19)	9260 (14)	8210 (18)	19.2 (25)	5.0 (3)	85 (17)	14 (11)	41 (30)
10Y2094	MPQ	9090 (21)		10470 (5)	8570 (26)	9340 (12)	8000 (22)	22.2 (2)	4.8 (30)	87 (21)	50 (27)	40 (14)
10Y1059	LJ	9040 (22)		9900 (20)	9520 (7)	8380 (23)	8370 (16)	18.7 (30)	4.9 (7)	85 (9)	19 (15)	40 (16)
M208	M	8870 (23)		9560 (27)	8760 (25)	9350 (11)	7810 (24)	21.0 (13)	4.9 (7)	88 (26)	56 (31)	41 (27)
10Y3670	M	8870 (24)		9960 (17)	9100 (18)	8590 (22)	7820 (23)	21.6 (7)	4.6 (34)	88 (24)	38 (19)	39 (10)
09Y2184	SPQ	8590 (25)		10440 (7)	8340 (27)	7920 (26)	7680 (26)	21.8 (6)	4.6 (33)	94 (35)	1 (1)	37 (6)
11Y2071	SWX	8430 (26)		9250 (30)	8850 (22)	7030 (31)	8590 (12)	19.0 (27)	4.6 (34)	77 (1)	73 (35)	40 (15)
11Y2192	MPQ	8290 (27)		9420 (29)	8850 (23)	7160 (29)	7720 (25)	21.3 (10)	4.9 (7)	85 (14)	94 (38)	44 (38)
A201	LA	8020 (28)		8480 (32)	8220 (28)	8140 (24)	7240 (28)	19.4 (24)	5.0 (1)	92 (33)	1 (1)	38 (9)
11Y2045	SLA	7990 (29)		9950 (18)	7500 (33)	7380 (28)	7140 (29)	22.8 (1)	5.0 (4)	89 (29)	66 (33)	41 (22)
12Y87	LJ	7600 (30)		9700 (25)	7580 (31)	7400 (27)	5730 (32)	18.2 (33)	4.9 (14)	95 (37)	1 (1)	36 (3)
11Y2049	SPQ	7410 (31)		9450 (28)	7270 (35)	7140 (30)	5800 (31)	20.2 (18)	4.9 (16)	87 (22)	57 (32)	40 (21)
A301	LA	7280 (32)		8640 (31)	8190 (29)	6580 (32)	5700 (33)	21.4 (9)	4.6 (36)	99 (38)	1 (1)	34 (1)
11Y1079	LB	7150 (33)		7970 (35)	7480 (34)	6130 (34)	7020 (30)	19.5 (23)	4.9 (7)	83 (3)	25 (17)	37 (7)
CT202	LB	6700 (34)		7990 (34)	7910 (30)	5340 (37)	5570 (35)	17.2 (38)	5.0 (4)	88 (26)	5 (10)	35 (2)
CA201	SLA	6670 (35)		7230 (38)	7560 (32)	6320 (33)	5570 (34)	18.7 (32)	5.0 (2)	83 (3)	90 (37)	39 (13)
10Y1199	LB	6230 (36)		7760 (36)	6560 (36)	5900 (36)	4720 (36)	18.8 (29)	4.9 (20)	95 (36)	38 (20)	41 (26)
11Y106	LJ	6100 (37)		8350 (33)	6090 (37)	6070 (35)	3890 (38)	19.1 (26)	4.6 (37)	87 (22)	24 (16)	42 (35)
11Y158	LB	5580 (38)		7540 (37)	5720 (38)	4680 (38)	4400 (37)	17.4 (37)	4.9 (23)	88 (25)	2 (6)	36 (5)
MEAN		8560		9630	8650	8260	7690	20	4.8	87	34	40
CV		5.9		6.6	3.9	5.4	6.9	6.3	3.6	1.3	57	3.6
LSD (.05)		490		1300	680	910	1070	1.2	0.2	1	19	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = low amalose; J = Jasmine; A = aromatic; B = Basmati; BLST = blast resistance; SR = stem rot resistant, LA = Low Amalose.

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 10. 2012 Biggs Early Advanced Rice Variety Trial

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)
11Y1008	L	11650 (1)	16.6 (15)	4.7 (6)	82 (3)	1 (1)	36 (7)
09Y1122	L	11350 (2)	17.8 (12)	4.7 (7)	87 (10)	1 (1)	34 (3)
09Y2141	SWX	11060 (3)	20.2 (8)	4.5 (16)	84 (5)	30 (12)	39 (13)
08Y3126	M	10690 (4)	21.3 (5)	4.6 (12)	84 (6)	1 (1)	39 (14)
M205	M	10530 (5)	22.0 (2)	4.8 (4)	88 (15)	3 (7)	37 (9)
L206	L	10510 (6)	17.1 (14)	4.6 (12)	84 (8)	6 (10)	33 (1)
09Y3887	M	10470 (7)	25.1 (1)	4.6 (9)	88 (15)	1 (1)	38 (10)
06Y575	L	10400 (8)	19.0 (11)	4.8 (2)	87 (14)	3 (7)	41 (16)
09Y2179	S	10280 (9)	20.2 (7)	4.8 (2)	89 (17)	1 (1)	39 (15)
M206	M	9980 (10)	21.3 (4)	4.5 (15)	84 (6)	3 (7)	38 (11)
08Y3269	M	9870 (11)	21.5 (3)	4.6 (9)	87 (10)	1 (1)	36 (8)
M202	M	9770 (12)	21.1 (6)	4.8 (5)	87 (13)	11 (11)	41 (17)
S102	S	9500 (13)	12.5 (17)	4.6 (9)	80 (2)	60 (14)	36 (6)
09Y2159	SLA	9430 (14)	19.7 (10)	4.2 (17)	87 (12)	44 (13)	38 (12)
CH202	SPQ	9000 (15)	19.9 (9)	4.6 (14)	82 (4)	93 (17)	33 (1)
CH201	SPQ	8680 (16)	17.6 (13)	5.0 (1)	85 (9)	85 (15)	35 (5)
CM101	SWX	8520 (17)	16.1 (16)	4.7 (8)	80 (1)	86 (16)	35 (4)
MEAN		10100	19.4	4.7	85	25	37
CV		7.5	5.4	2.5	1.1	48.4	3.8
LSD (.05)		1070	1.5	0.2	1	17	2

Preliminary 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)
11Y1076	L	10660 (1)	15.7 (36)	4.5 (30)	83 (5)	1 (1)	39 (27)
09Y3805	M	10590 (2)	22.0 (6)	4.7 (19)	87 (32)	1 (1)	41 (36)
11Y1096	LA	10480 (3)	16.8 (30)	4.8 (7)	84 (13)	1 (1)	39 (28)
10Y3536	M	10470 (4)	20.7 (14)	4.7 (15)	83 (5)	1 (1)	40 (33)
10Y2094	MPQ	10470 (5)	20.8 (12)	4.6 (24)	85 (21)	11 (31)	38 (25)
11P498	M-blst	10450 (6)	22.4 (4)	4.8 (10)	84 (9)	1 (1)	40 (30)
09Y2184	SPQ	10440 (7)	20.8 (11)	4.1 (36)	86 (25)	1 (1)	36 (8)
11Y2182	MPQ	10430 (8)	22.9 (2)	4.2 (35)	90 (35)	1 (1)	38 (25)
11P503	M-blst	10420 (9)	21.8 (7)	4.7 (15)	84 (13)	6 (29)	38 (19)
12y82	L	10390 (10)	19.1 (21)	4.6 (21)	88 (33)	1 (1)	33 (2)
11P507	M-blst	10360 (11)	21.5 (8)	4.6 (24)	84 (9)	1 (1)	38 (21)
10Y3729	M	10330 (12)	22.0 (5)	4.5 (32)	87 (30)	1 (1)	38 (22)
M105	M	10250 (13)	18.0 (24)	4.7 (19)	79 (2)	31 (34)	36 (11)
11P509	M-blst	10150 (14)	20.3 (19)	4.6 (24)	84 (13)	6 (29)	37 (13)
09Y3517	M	10100 (15)	20.7 (15)	4.6 (22)	84 (9)	1 (1)	38 (19)
11Y1049	LA	9990 (16)	17.2 (28)	4.8 (6)	85 (24)	1 (1)	38 (18)
10Y3670	M	9960 (17)	20.9 (10)	4.5 (32)	85 (18)	1 (1)	36 (12)
11Y2045	SLA	9950 (18)	20.3 (18)	4.8 (7)	86 (25)	13 (32)	37 (15)
12Y81	L	9940 (19)	17.6 (26)	5.0 (2)	82 (3)	1 (1)	40 (35)
10Y1059	LJ	9900 (20)	16.5 (32)	4.7 (14)	84 (17)	1 (1)	38 (24)
10Y3622	M	9870 (21)	19.7 (20)	4.5 (28)	84 (9)	1 (1)	37 (14)
10Y3754	M	9860 (22)	20.4 (16)	4.6 (24)	85 (18)	1 (1)	37 (15)
11Y2112	MPQ	9740 (23)	21.3 (9)	4.8 (10)	85 (21)	1 (1)	39 (29)
10Y3722	M	9720 (24)	20.3 (17)	4.5 (32)	84 (13)	1 (1)	37 (15)
12Y87	LJ	9700 (25)	17.6 (27)	4.7 (15)	86 (29)	1 (1)	34 (6)
12Y84	L	9650 (26)	15.5 (37)	4.6 (23)	83 (5)	1 (1)	36 (10)
M208	M	9560 (27)	18.3 (22)	4.8 (10)	85 (21)	31 (34)	40 (32)
11Y2049	SPQ	9450 (28)	17.0 (29)	4.9 (3)	87 (30)	20 (33)	40 (30)
11Y2192	MPQ	9420 (29)	20.7 (13)	4.8 (10)	85 (18)	85 (37)	42 (38)
11Y2071	SWX	9250 (30)	16.6 (31)	4.5 (28)	77 (1)	40 (36)	38 (22)
A301	LA	8640 (31)	23.0 (1)	3.6 (38)	93 (38)	1 (1)	33 (1)
A201	LA	8480 (32)	18.3 (23)	5.0 (1)	89 (34)	1 (1)	34 (5)
11Y106	LJ	8350 (33)	22.7 (3)	3.7 (37)	91 (36)	1 (1)	42 (37)
CT202	LB	7990 (34)	16.2 (33)	4.8 (9)	86 (27)	1 (1)	35 (7)
11Y1079	LB	7970 (35)	15.8 (34)	4.9 (5)	82 (3)	1 (1)	34 (3)
10Y1199	LB	7760 (36)	17.9 (25)	4.5 (30)	92 (37)	1 (1)	40 (34)
11Y158	LB	7540 (37)	15.7 (35)	4.7 (15)	86 (27)	1 (1)	34 (4)
CA201	SLA	7230 (38)	15.3 (38)	4.9 (3)	83 (5)	85 (37)	36 (9)
MEAN		9630	19.2	4.6	85	9	38
CV		6.6	5.5	2.6	1.3	111.6	4.3
LSD (.05)		1300	2.2	0.2	2	21	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = low amalose; J = Jasmine; A = aromatic; B = Basmati; BLST = blast resistance; SR = stem rot resistant, LA = Low Amalose.

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. 2012 Butte Early Advanced Rice Variety Trial

<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)
08Y3269	M	10210 (1)	20.6 (7)	4.9 (11)	85 (13)	16 (7)	39 (10)
09Y2179	S	10190 (2)	20.4 (9)	4.9 (11)	81 (5)	1 (1)	41 (15)
11Y1008	L	10100 (3)	17.4 (15)	5.0 (1)	82 (8)	1 (1)	39 (10)
09Y2141	SWX	10050 (4)	23.6 (1)	4.3 (16)	82 (9)	65 (10)	42 (17)
09Y1122	L	9810 (5)	20.5 (8)	5.0 (1)	85 (13)	1 (1)	36 (1)
06Y575	L	9650 (6)	19.8 (10)	5.0 (1)	86 (15)	1 (1)	41 (16)
M205	M	9600 (7)	22.0 (3)	5.0 (1)	87 (16)	11 (6)	38 (7)
08Y3126	M	9470 (8)	21.1 (6)	5.0 (1)	81 (6)	82 (12)	39 (12)
L206	L	9380 (9)	17.3 (16)	5.0 (1)	81 (7)	60 (9)	38 (3)
09Y3887	M	9320 (10)	22.0 (2)	4.9 (11)	87 (17)	1 (1)	38 (4)
M206	M	9240 (11)	21.5 (4)	5.0 (1)	80 (4)	81 (11)	40 (14)
09Y2159	SLA	8880 (12)	18.5 (13)	3.7 (17)	83 (11)	45 (8)	38 (4)
M202	M	8650 (13)	21.2 (5)	5.0 (1)	84 (12)	96 (16)	39 (13)
CH202	SPQ	8630 (14)	19.2 (11)	4.5 (15)	79 (2)	85 (13)	37 (2)
S102	S	8220 (15)	16.7 (17)	5.0 (1)	76 (1)	94 (15)	38 (6)
CH201	SPQ	8080 (16)	18.8 (12)	5.0 (1)	83 (10)	96 (17)	38 (9)
CM101	SWX	7190 (17)	17.8 (14)	4.8 (14)	79 (2)	85 (13)	38 (8)
MEAN		9220	19.9	4.8	82	48	39
CV		3.8	5.3	5.5	1	40.8	3.5
LSD (.05)		500	1.5	0.4	1	28	2
<i>Preliminary Lines and Varieties</i>							
11Y1076	L	9920 (1)	18.8 (32)	5.0 (1)	83 (16)	1 (1)	42 (35)
11Y1096	LA	9730 (2)	18.0 (35)	5.0 (1)	85 (25)	1 (1)	41 (29)
12Y84	L	9720 (3)	19.2 (30)	4.9 (29)	86 (29)	1 (1)	43 (37)
11Y2182	MPQ	9690 (4)	20.1 (23)	3.7 (38)	88 (32)	40 (18)	37 (5)
11P509	M-blst	9580 (5)	21.7 (10)	5.0 (1)	83 (13)	43 (20)	40 (24)
10Y3722	M	9570 (6)	20.8 (18)	4.9 (29)	82 (10)	31 (15)	39 (12)
10Y1059	LJ	9520 (7)	19.5 (28)	5.0 (1)	83 (16)	30 (14)	41 (31)
M105	M	9490 (8)	21.1 (15)	5.0 (1)	78 (2)	99 (35)	39 (14)
09Y3805	M	9470 (9)	20.9 (17)	5.0 (1)	87 (31)	1 (1)	39 (14)
12y82	L	9320 (10)	20.0 (24)	4.7 (33)	89 (34)	1 (1)	37 (5)
11Y2112	MPQ	9320 (11)	22.4 (8)	5.0 (1)	84 (22)	55 (23)	39 (14)
10Y3536	M	9290 (12)	21.1 (15)	4.8 (31)	80 (4)	85 (28)	41 (31)
10Y3622	M	9230 (13)	21.3 (13)	5.0 (1)	80 (4)	55 (21)	40 (18)
10Y3754	M	9220 (14)	21.7 (10)	4.2 (36)	81 (7)	35 (16)	41 (26)
11P498	M-blst	9170 (15)	22.5 (6)	5.0 (1)	83 (13)	90 (29)	40 (24)
09Y3517	M	9150 (16)	22.7 (4)	4.8 (31)	81 (7)	63 (24)	39 (14)
11P503	M-blst	9120 (17)	22.7 (4)	5.0 (1)	83 (13)	80 (27)	40 (21)
10Y3670	M	9100 (18)	21.5 (12)	4.6 (35)	83 (16)	99 (35)	38 (8)
11Y1049	LA	9040 (19)	20.3 (22)	5.0 (1)	84 (20)	6 (13)	42 (36)
12Y81	L	8920 (20)	19.8 (26)	5.0 (1)	83 (16)	1 (1)	42 (33)
11P507	M-blst	8880 (21)	21.3 (13)	5.0 (1)	82 (10)	65 (25)	41 (28)
11Y2071	SWX	8850 (22)	20.3 (21)	4.0 (37)	75 (1)	55 (21)	40 (23)
11Y2192	MPQ	8850 (23)	19.6 (27)	5.0 (1)	81 (6)	95 (31)	44 (38)
10Y3729	M	8770 (24)	23.1 (3)	5.0 (1)	84 (22)	90 (29)	38 (9)
M208	M	8760 (25)	23.4 (1)	5.0 (1)	84 (22)	97 (33)	41 (29)
10Y2094	MPQ	8570 (26)	22.4 (8)	5.0 (1)	82 (9)	99 (35)	40 (21)
09Y2184	SPQ	8340 (27)	23.4 (2)	4.7 (33)	89 (33)	1 (1)	37 (5)
A201	LA	8220 (28)	20.8 (19)	5.0 (1)	92 (35)	1 (1)	40 (18)
A301	LA	8190 (29)	20.7 (20)	5.0 (1)	99 (37)	1 (1)	34 (2)
CT202	LB	7910 (30)	17.3 (36)	5.0 (1)	86 (29)	1 (1)	34 (2)
12Y87	LJ	7580 (31)	19.5 (29)	5.0 (1)	99 (38)	1 (1)	34 (1)
CA201	SLA	7560 (32)	15.8 (38)	5.0 (1)	79 (3)	95 (32)	39 (12)
11Y2045	SLA	7500 (33)	22.5 (7)	5.0 (1)	86 (28)	97 (33)	40 (18)
11Y1079	LB	7480 (34)	18.2 (34)	5.0 (1)	82 (10)	35 (16)	38 (10)
11Y2049	SPQ	7270 (35)	20.0 (25)	5.0 (1)	84 (20)	99 (35)	38 (10)
10Y1199	LB	6560 (36)	18.4 (33)	5.0 (1)	94 (36)	40 (18)	41 (26)
11Y106	LJ	6090 (37)	19.1 (31)	5.0 (1)	85 (26)	75 (26)	42 (33)
11Y158	LB	5720 (38)	16.6 (37)	5.0 (1)	85 (26)	1 (1)	35 (4)
MEAN		8650	20.5	4.9	84	46	39
CV		3.9	4	5.6	1.4	48.9	2.9
LSD (.05)		680	1.7	0.6	2	46	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA=low amalose; J=Jasmine; A = aromatic; B=Basmati; BLST = blast resistance; SR=stem rot resistant, LA = Low Amalose.

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. 2012 Colusa Early Advanced Rice Variety Trial

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)
08Y3269	M	10100 (1)	21.1 (5)	5.0 (1)	92 (15)	1 (1)	38 (5)
06Y575	L	9990 (2)	18.3 (14)	5.0 (1)	85 (9)	2 (6)	41 (14)
M206	M	9680 (3)	20.5 (9)	5.0 (1)	86 (11)	28 (8)	41 (15)
09Y2179	S	9650 (4)	20.8 (7)	5.0 (1)	85 (7)	1 (1)	42 (16)
11Y1008	L	9500 (5)	18.0 (16)	5.0 (1)	79 (4)	75 (10)	39 (9)
08Y3126	M	9480 (6)	21.1 (6)	5.0 (1)	85 (9)	78 (11)	40 (11)
L206	L	9400 (7)	18.8 (13)	5.0 (1)	81 (6)	80 (12)	37 (3)
09Y1122	L	9340 (8)	18.0 (15)	5.0 (1)	85 (7)	1 (1)	36 (2)
M205	M	9130 (9)	22.3 (4)	5.0 (1)	94 (16)	1 (1)	38 (4)
09Y2159	SLA	8760 (10)	17.6 (17)	5.0 (1)	89 (14)	17 (7)	38 (8)
09Y2141	SWX	8680 (11)	24.7 (1)	5.0 (1)	76 (2)	99 (16)	43 (17)
M202	M	8630 (12)	20.6 (8)	5.0 (1)	87 (12)	33 (9)	40 (12)
CM101	SWX	7700 (13)	19.8 (11)	5.0 (1)	76 (2)	99 (16)	40 (10)
S102	S	7460 (14)	19.5 (12)	5.0 (1)	75 (1)	98 (14)	40 (12)
09Y3887	M	7460 (15)	24.2 (2)	5.0 (1)	97 (17)	1 (1)	35 (1)
CH201	SPQ	7430 (16)	22.8 (3)	5.0 (1)	88 (13)	87 (13)	38 (7)
CH202	SPQ	7370 (17)	20.2 (10)	5.0 (1)	80 (5)	98 (14)	38 (5)
MEAN		8810	20.5	5.0	85	47	39
CV		5.3	8.7		1.7	27.3	3.1
LSD (.05)		660	2.5		2	18	2

Preliminary Lines and Varieties

11P503	M-blst	10020 (1)	20.3 (19)	5.0 (1)	88 (21)	21 (23)	42 (24)
10Y3754	M	9750 (2)	19.3 (30)	5.0 (1)	87 (17)	36 (26)	40 (20)
11P507	M-blst	9670 (3)	20.0 (23)	5.0 (1)	87 (19)	11 (20)	43 (32)
11P509	M-blst	9550 (4)	21.0 (13)	5.0 (1)	86 (15)	28 (24)	42 (24)
10Y3729	M	9550 (5)	22.3 (7)	5.0 (1)	93 (31)	1 (1)	38 (12)
09Y3517	M	9540 (6)	19.6 (24)	5.0 (1)	85 (11)	8 (19)	42 (24)
12Y81	L	9490 (7)	18.8 (33)	5.0 (1)	81 (6)	6 (17)	42 (24)
10Y3622	M	9460 (8)	19.0 (31)	5.0 (1)	86 (15)	70 (33)	41 (23)
12y82	L	9440 (9)	19.4 (28)	5.0 (1)	91 (26)	1 (1)	35 (3)
11Y2112	MPQ	9430 (10)	22.2 (9)	5.0 (1)	94 (34)	1 (1)	38 (8)
M208	M	9350 (11)	20.6 (15)	5.0 (1)	93 (31)	1 (1)	38 (12)
10Y2094	MPQ	9340 (12)	23.2 (6)	5.0 (1)	90 (25)	1 (1)	39 (15)
10Y3722	M	9280 (13)	20.0 (22)	5.0 (1)	88 (21)	30 (25)	43 (32)
11Y1049	LA	9260 (14)	19.4 (27)	5.0 (1)	84 (10)	1 (1)	41 (22)
09Y3805	M	9210 (15)	22.1 (10)	5.0 (1)	91 (27)	1 (1)	40 (16)
11Y1096	LA	9200 (16)	18.6 (35)	5.0 (1)	82 (7)	6 (17)	43 (37)
12Y84	L	9140 (17)	17.4 (37)	5.0 (1)	80 (4)	65 (32)	42 (30)
11P498	M-blst	9010 (18)	22.2 (8)	5.0 (1)	85 (11)	11 (20)	43 (34)
11Y1076	L	8920 (19)	18.4 (36)	5.0 (1)	80 (3)	36 (26)	42 (24)
10Y3536	M	8670 (20)	20.5 (17)	5.0 (1)	85 (11)	95 (35)	42 (30)
M105	M	8620 (21)	18.9 (32)	5.0 (1)	79 (2)	99 (37)	43 (38)
10Y3670	M	8590 (22)	21.5 (12)	5.0 (1)	92 (30)	1 (1)	38 (8)
10Y1059	LJ	8380 (23)	20.6 (16)	5.0 (1)	83 (8)	3 (14)	40 (18)
A201	LA	8140 (24)	19.4 (26)	5.0 (1)	89 (24)	1 (1)	38 (11)
11Y2182	MPQ	8010 (25)	20.5 (18)	4.7 (38)	97 (37)	1 (1)	37 (6)
09Y2184	SPQ	7920 (26)	22.0 (11)	5.0 (1)	102 (38)	1 (1)	37 (7)
12Y87	LJ	7400 (27)	17.4 (38)	5.0 (1)	91 (27)	1 (1)	36 (5)
11Y2045	SLA	7380 (28)	25.3 (2)	5.0 (1)	93 (31)	60 (30)	41 (21)
11Y2192	MPQ	7160 (29)	26.2 (1)	5.0 (1)	87 (17)	97 (36)	43 (36)
11Y2049	SPQ	7140 (30)	23.7 (4)	5.0 (1)	89 (23)	63 (31)	42 (29)
11Y2071	SWX	7030 (31)	20.1 (20)	5.0 (1)	75 (1)	99 (37)	40 (18)
A301	LA	6580 (32)	20.9 (14)	5.0 (1)	97 (36)	1 (1)	35 (4)
CA201	SLA	6320 (33)	23.7 (5)	5.0 (1)	83 (8)	83 (34)	40 (16)
11Y1079	LB	6130 (34)	25.1 (3)	5.0 (1)	80 (4)	50 (29)	38 (8)
11Y106	LJ	6070 (35)	18.8 (34)	5.0 (1)	85 (11)	3 (14)	43 (34)
10Y1199	LB	5900 (36)	19.5 (25)	5.0 (1)	94 (34)	40 (28)	39 (14)
CT202	LB	5340 (37)	19.4 (29)	5.0 (1)	91 (27)	11 (20)	34 (2)
11Y158	LB	4680 (38)	20.0 (21)	5.0 (1)	87 (19)	3 (14)	34 (1)
MEAN		8260	20.7	5.0	88	27	40
CV		5.4	8.9		1.5	64.3	3.6
LSD (.05)		910	3.7		3	36	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA=low amalose; J=Jasmine; A = aromatic; B=Basmati; BLST = blast resistance; SR=stem rot resistant, LA = Low Amalose.

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. 2012 Yuba Early Advanced Rice Variety Trial

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)
06Y575	L	9560 (1)	18.3 (11)	5.0 (1)	93 (12)	1 (1)	42 (12)
11Y1008	L	9460 (2)	17.4 (13)	5.0 (1)	88 (8)	20 (4)	41 (9)
08Y3126	M	9460 (3)	19.7 (7)	5.0 (1)	87 (6)	98 (12)	45 (16)
09Y2141	SWX	9350 (4)	19.3 (9)	4.9 (15)	86 (4)	99 (14)	46 (17)
09Y1122	L	9240 (5)	17.2 (14)	5.0 (1)	88 (8)	26 (5)	40 (5)
M206	M	9240 (6)	19.4 (8)	5.0 (1)	87 (7)	96 (11)	43 (14)
M202	M	9220 (7)	20.3 (5)	5.0 (1)	89 (10)	99 (14)	44 (15)
L206	L	9100 (8)	18.1 (12)	4.9 (13)	85 (3)	64 (9)	38 (1)
08Y3269	M	9010 (9)	21.5 (4)	4.9 (13)	96 (16)	52 (8)	40 (6)
M205	M	8840 (10)	21.5 (3)	5.0 (1)	94 (14)	43 (7)	40 (8)
CH202	SPQ	8540 (11)	18.9 (10)	5.0 (1)	86 (5)	89 (10)	41 (10)
09Y3887	M	8170 (12)	22.0 (2)	5.0 (1)	94 (13)	2 (3)	40 (3)
S102	S	7970 (13)	15.0 (17)	5.0 (1)	82 (1)	99 (14)	42 (13)
09Y2159	SLA	7810 (14)	15.8 (15)	4.4 (17)	95 (15)	26 (5)	40 (7)
CM101	SWX	7360 (15)	15.7 (16)	5.0 (1)	84 (2)	99 (14)	42 (11)
09Y2179	S	6960 (16)	22.2 (1)	4.8 (16)	103 (17)	1 (1)	39 (2)
CH201	SPQ	6080 (17)	19.9 (6)	5.0 (1)	89 (11)	98 (12)	40 (4)
MEAN		8550	18.9	4.9	90	59	41
CV		4.5	4.1	2.8	1.1	36.5	2.9
LSD (.05)		550	1.1	0.2	1	31	2

Preliminary Lines and Varieties

12Y84	L	9840 (1)	18.4 (30)	4.6 (35)	90 (21)	6 (9)	43 (20)
11Y2182	MPQ	9420 (2)	20.7 (10)	2.5 (38)	100 (35)	16 (13)	39 (6)
11Y1076	L	9320 (3)	17.9 (33)	5.0 (1)	88 (5)	20 (15)	44 (29)
11P509	M-blst	9180 (4)	19.8 (17)	5.0 (1)	87 (3)	95 (26)	42 (15)
09Y3517	M	9110 (5)	19.4 (22)	5.0 (1)	88 (5)	99 (33)	44 (26)
09Y3805	M	9110 (6)	20.0 (15)	5.0 (1)	93 (27)	11 (11)	42 (13)
11P507	M-blst	8900 (7)	19.2 (24)	5.0 (1)	89 (14)	85 (24)	44 (26)
10Y3622	M	8890 (8)	19.8 (17)	4.9 (26)	90 (21)	78 (23)	43 (23)
10Y3754	M	8810 (9)	19.5 (21)	5.0 (1)	88 (5)	95 (26)	46 (36)
12Y81	L	8730 (10)	18.7 (29)	4.8 (29)	88 (5)	1 (1)	46 (37)
11P503	M-blst	8630 (11)	21.0 (8)	5.0 (1)	88 (5)	99 (33)	43 (24)
11Y2071	SWX	8590 (12)	18.8 (27)	5.0 (1)	82 (1)	97 (31)	42 (15)
10Y3729	M	8550 (13)	21.2 (6)	5.0 (1)	93 (27)	65 (21)	41 (11)
12y82	L	8530 (14)	17.3 (35)	5.0 (1)	94 (31)	1 (1)	38 (3)
M105	M	8510 (15)	20.2 (12)	4.9 (26)	86 (2)	95 (26)	44 (26)
10Y1059	LJ	8370 (16)	18.3 (31)	5.0 (1)	89 (14)	41 (16)	41 (12)
11P498	M-blst	8250 (17)	20.1 (14)	5.0 (1)	89 (14)	99 (33)	44 (31)
11Y1049	LA	8210 (18)	19.8 (16)	5.0 (1)	88 (5)	50 (18)	44 (30)
11Y2112	MPQ	8140 (19)	21.7 (4)	5.0 (1)	97 (32)	50 (18)	40 (7)
10Y3536	M	8120 (20)	20.3 (11)	5.0 (1)	87 (3)	99 (33)	44 (32)
10Y3722	M	8030 (21)	19.6 (20)	5.0 (1)	89 (14)	97 (31)	42 (14)
10Y2094	MPQ	8000 (22)	22.5 (2)	4.7 (34)	91 (24)	90 (25)	42 (15)
10Y3670	M	7820 (23)	22.5 (2)	4.5 (37)	91 (24)	50 (18)	43 (20)
M208	M	7810 (24)	21.6 (5)	5.0 (1)	90 (21)	95 (26)	44 (32)
11Y2192	MPQ	7720 (25)	18.8 (26)	5.0 (1)	88 (5)	99 (33)	46 (37)
09Y2184	SPQ	7680 (26)	20.9 (9)	4.8 (29)	100 (35)	1 (1)	38 (2)
11Y1096	LA	7320 (27)	17.4 (34)	5.0 (1)	89 (14)	1 (1)	46 (35)
A201	LA	7240 (28)	19.1 (25)	5.0 (1)	97 (32)	1 (1)	41 (10)
11Y2045	SLA	7140 (29)	22.9 (1)	5.0 (1)	93 (29)	95 (26)	44 (32)
11Y1079	LB	7020 (30)	18.7 (28)	4.9 (26)	88 (5)	15 (12)	40 (8)
11Y2049	SPQ	5800 (31)	20.1 (13)	4.8 (29)	91 (26)	46 (17)	42 (18)
12Y87	LJ	5730 (32)	18.3 (31)	5.0 (1)	103 (37)	1 (1)	38 (5)
A301	LA	5700 (33)	21.2 (7)	4.8 (29)	107 (38)	1 (1)	36 (1)
CA201	SLA	5570 (34)	19.8 (19)	5.0 (1)	88 (5)	99 (33)	43 (22)
CT202	LB	5570 (35)	16.0 (37)	5.0 (1)	89 (14)	6 (9)	38 (3)
10Y1199	LB	4720 (36)	19.4 (23)	5.0 (1)	99 (34)	73 (22)	43 (24)
11Y158	LB	4400 (37)	17.2 (36)	4.8 (29)	93 (29)	1 (1)	40 (8)
11Y106	LJ	3890 (38)	15.9 (38)	4.6 (35)	89 (20)	16 (13)	42 (19)
MEAN		7690	19.6	4.8	91	52	42
CV		6.9	5.5	3.5	0.7	45.2	3.7
LSD (.05)		1070	2.2	0.3	1	48	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; A = aromatic; J = Jasmine; A = aromatic; B = Basmati;

BLST = blast resistance; SR = stem rot resistant, LA = Low Amalose.

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. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2008-2012)

Location	Year	Calhikari					Calmati		
		201	S-102	M-202	M-105	M-205	M-206	202	L-206
Biggs (RES)	2008	9520	10950	10580	10590	10800	10620	7930	10820
	2009	9090	9700	8940	8690	9430	9080	7650	10840
	2010	9390	9400	10210	11530	10790	10990	8730	11090
	2011	9210	10230	9660	9490	10610	10050	5410	10020
	2012	8680	9500	9770	10250	10530	9980	7990	10510
Location Mean		9178	9956	9832	10110	10432	10144	7542	10656
Butte	2008	6360	7470	7150	8450	8220	8450	7020	8700
	2009	8690	7800	9690	8530	9830	8170	7780	9610
	2010	7900	7330	8190	8530	7950	8440	6770	8400
	2011	8060	8280	8180	9270	8860	8520	8020	9330
	2012	8080	8220	8650	9490	9600	9240	7910	9380
Location Mean		7818	7820	8372	8854	8892	8564	7500	9084
Colusa	2008	8640	9870	9950	10100	10080	10080	5740	9730
	2009	7350	8130	8560	8880	9680	8800	5510	8600
	2010	9510	10190	10910	10930	11190	10560	4690	10440
	2011	6040	7420	9350	7580	9760	9960	5210	9660
	2012	7430	7460	8630	8620	9130	9680	5340	9400
Location Mean		7794	8614	9480	9222	9968	9816	5298	9566
Yuba	2008	8880	9830	10140	10270	10500	10720	6250	11000
	2009	6880	7950	7940	8160	8790	8530	5960	9150
	2010	8350	10010	10220	10040	9370	10330	5470	9070
	2011	7800	8740	9300	9800	10000	10190	6030	10160
	2012	6080	7970	9220	8510	8840	9240	5570	9100
Location Mean		7598	8900	9364	9356	9500	9802	5856	9696
Loc/Years Mean		8097	8823	9262	9386	9698	9582	6549	9751
Yield % M-202		87.4	95.3	100	101.3	104.7	103.4	70.7	105.3
Number of Tests		20	20	20	16	20	20	20	20

Table 15. 2012 Three Location Intermediate/Late Advanced Rice Variety Tests

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain Yield at 14% Moisture	Single Location Yields			Ave Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre	Biggs	Glenn	Sutter					
06Y575	L	9950 (1)	10980 (4)	8800 (1)	10080 (1)	20.0 (5)	4.9 (8)	89 (6)	2 (3)	42 (8)
M205	M	9690 (2)	11210 (1)	8220 (3)	9630 (4)	23.7 (3)	5.0 (4)	89 (5)	1 (1)	38 (4)
L206	L	9580 (3)	11180 (2)	7680 (7)	9890 (2)	17.6 (8)	4.9 (6)	82 (2)	3 (5)	34 (1)
M202	M	9480 (4)	11090 (3)	7660 (8)	9690 (3)	22.3 (4)	5.0 (1)	86 (4)	1 (1)	40 (6)
M402	MPQ	9190 (5)	10260 (5)	8260 (2)	9040 (7)	24.6 (2)	5.0 (2)	97 (8)	2 (4)	39 (5)
CH201	SWX	8820 (6)	9180 (7)	8000 (5)	9280 (5)	18.4 (7)	5.0 (2)	85 (3)	32 (7)	36 (3)
09Y2176	MPQ	8770 (7)	10110 (6)	8120 (4)	8080 (8)	25.2 (1)	5.0 (5)	91 (7)	9 (6)	40 (7)
CH202	SPQ	8720 (8)	9080 (8)	7970 (6)	9130 (6)	18.6 (6)	4.9 (6)	81 (1)	33 (8)	34 (2)
MEAN		9280	10390	8090	9350	21.3	5.0	87	10	38
CV		5	6.2	3.3	4.3	5.0	0.6	1.1	35.1	3.5
LSD (.05)		380	950	400	600	0.9	0	1	3	1

Preliminary Lines and Varieties

10Y3703	M	10050 (1)	11390 (4)	9490 (2)	9270 (5)	23.7 (6)	5.0 (1)	87 (13)	17 (26)	40 (20)
10Y3690	M	9830 (2)	11510 (2)	8500 (7)	9500 (3)	21.9 (15)	5.0 (1)	87 (15)	3 (14)	39 (11)
12Y131	L	9750 (3)	11430 (3)	7980 (21)	9860 (1)	18.0 (26)	4.9 (26)	85 (2)	3 (14)	40 (16)
11Y2183	MPQ	9620 (4)	11650 (1)	9360 (5)	7850 (21)	24.2 (4)	5.0 (16)	91 (26)	12 (24)	40 (22)
10Y3789	M	9620 (5)	11160 (8)	8230 (18)	9470 (4)	23.2 (8)	5.0 (1)	87 (13)	1 (1)	40 (20)
10Y3737	M	9500 (6)	11350 (6)	8430 (9)	8740 (11)	22.8 (10)	5.0 (1)	88 (17)	1 (1)	39 (14)
10Y3717	M	9460 (7)	11020 (12)	8300 (13)	9080 (7)	23.3 (7)	5.0 (1)	89 (23)	6 (19)	41 (25)
10Y3507	M	9420 (8)	11030 (11)	8450 (8)	8790 (9)	22.4 (12)	5.0 (1)	86 (4)	2 (13)	40 (17)
10Y3773	M	9400 (9)	11290 (7)	8430 (10)	8500 (15)	22.2 (13)	5.0 (16)	87 (9)	2 (11)	38 (9)
12Y130	LSR	9370 (10)	10740 (15)	8280 (15)	9080 (6)	18.7 (24)	5.0 (16)	86 (7)	2 (11)	39 (15)
09Y3502	M	9370 (11)	11110 (10)	8620 (6)	8370 (18)	23.1 (9)	5.0 (16)	88 (18)	7 (21)	41 (25)
12Y135	LJ	9360 (12)	8860 (24)	9360 (4)	9850 (2)	19.3 (20)	5.0 (1)	92 (28)	1 (1)	38 (10)
12Y139	LA	9180 (13)	10870 (14)	7620 (24)	9070 (8)	18.3 (25)	4.9 (26)	87 (15)	3 (14)	37 (8)
12Y132	L	9130 (14)	10650 (16)	8110 (19)	8630 (12)	17.7 (28)	5.0 (16)	86 (5)	3 (14)	42 (27)
10Y3748	M	8980 (15)	11010 (13)	7340 (25)	8580 (13)	19.5 (19)	4.9 (30)	86 (6)	6 (19)	40 (18)
09Y2173	MPQ	8970 (16)	10080 (19)	8310 (12)	8510 (14)	24.3 (3)	5.0 (1)	93 (29)	34 (30)	44 (30)
08Y3314	M	8930 (17)	11360 (5)	8270 (17)	7160 (28)	24.4 (2)	5.0 (1)	88 (18)	12 (23)	39 (13)
10Y2120	MPQ	8890 (18)	10370 (18)	8270 (16)	8040 (20)	22.7 (11)	4.9 (26)	89 (21)	16 (25)	41 (23)
10Y3661	M	8870 (19)	11140 (9)	7920 (22)	7550 (24)	22.2 (14)	4.9 (32)	87 (9)	9 (22)	37 (5)
A201	LA	8620 (20)	9450 (21)	7640 (23)	8770 (10)	19.0 (23)	5.0 (1)	90 (25)	1 (1)	37 (6)
M401	MPQ	8620 (21)	8630 (25)	10030 (1)	7200 (27)	27.8 (1)	5.0 (1)	103 (32)	34 (29)	42 (29)
10Y2081	MPQ	8500 (22)	10610 (17)	8360 (11)	6540 (30)	23.9 (5)	5.0 (16)	89 (21)	32 (28)	40 (19)
09Y2174	MPQ	8470 (23)	9410 (22)	8280 (14)	7720 (23)	21.7 (16)	5.0 (16)	87 (11)	68 (31)	42 (28)
10Y3247	M	8360 (24)	10070 (20)	7210 (26)	7800 (22)	20.5 (17)	5.0 (16)	84 (1)	3 (18)	37 (7)
12Y133	LJ	8100 (25)	7770 (28)	8100 (20)	8420 (16)	20.1 (18)	5.0 (1)	98 (31)	1 (1)	36 (4)
11Y106	LJ	8010 (26)	8320 (26)	9420 (3)	6290 (31)	19.1 (22)	4.9 (31)	89 (20)	18 (27)	46 (31)
08Y1115	LA	7820 (27)	9290 (23)	6830 (28)	7350 (26)	17.2 (29)	4.9 (26)	87 (8)	1 (1)	34 (1)
12Y138	LB	7360 (28)	7760 (29)	5910 (29)	8410 (17)	15.9 (32)	5.0 (1)	90 (24)	1 (1)	39 (12)
12Y137	LB	7060 (29)	7840 (27)	5900 (30)	7440 (25)	16.5 (30)	5.0 (1)	85 (3)	1 (1)	41 (24)
CT202	LB	6940 (30)	7150 (30)	5500 (31)	8170 (19)	16.4 (31)	5.0 (16)	87 (11)	1 (1)	34 (2)
11Y158	LB	6370 (31)	6710 (31)	5360 (32)	7040 (29)	17.7 (27)	5.0 (16)	92 (27)	1 (1)	35 (3)
KOSH	SPQ	5490 (32)	5180 (32)	6850 (27)	4440 (32)	19.2 (21)	5.0 (1)	94 (30)	95 (32)	47 (32)
MEAN		8670	9880	7960	8170	20.8	5.0	89	12	40
CV		5.8	3.2	6.4	7.7	4.9	0.8	0.7	103	3.5
LSD (.05)		570	640	1050	1280	1.2		1	15	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; B = Basmati; A = aromatic; J = Jasmine; SR = Stem Rot resistance.

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 16. 2012 Biggs Late Advanced Rice Variety Trial

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)
M205	M	11210 (1)	24.4 (3)	4.9 (4)	87 (6)	1 (1)	38 (4)
L206	L	11180 (2)	17.6 (8)	4.8 (6)	81 (2)	1 (1)	33 (1)
M202	M	11090 (3)	22.5 (4)	5.0 (1)	85 (5)	1 (1)	42 (8)
06Y575	L	10980 (4)	21.6 (5)	4.8 (8)	85 (4)	1 (1)	41 (7)
M402	MPQ	10260 (5)	25.8 (2)	4.9 (2)	93 (8)	1 (1)	39 (5)
09Y2176	MPQ	10110 (6)	26.2 (1)	4.9 (5)	91 (7)	1 (1)	39 (6)
CH201	SWX	9180 (7)	19.6 (6)	4.9 (2)	82 (3)	90 (7)	37 (3)
CH202	SPQ	9080 (8)	19.3 (7)	4.8 (6)	80 (1)	90 (7)	34 (2)
MEAN		10390	22.1	4.9	85	23	38
CV		6.2	6.5	1	1.3		4
LSD (.05)		950	2.1	0.1	2		2

Preliminary Lines and Varieties

11Y2183	MPQ	11650 (1)	22.9 (8)	4.9 (16)	87 (18)	1 (1)	40 (18)
10Y3690	M	11510 (2)	22.1 (13)	4.9 (1)	86 (13)	1 (1)	39 (14)
12Y131	L	11430 (3)	18.2 (26)	4.8 (27)	81 (2)	1 (1)	39 (13)
10Y3703	M	11390 (4)	22.5 (11)	4.9 (1)	85 (8)	1 (1)	41 (23)
08Y3314	M	11360 (5)	24.0 (5)	4.9 (1)	88 (23)	1 (1)	40 (16)
10Y3737	M	11350 (6)	22.7 (10)	4.9 (1)	87 (18)	1 (1)	40 (16)
10Y3773	M	11290 (7)	21.9 (15)	4.9 (16)	85 (8)	1 (1)	38 (10)
10Y3789	M	11160 (8)	22.8 (9)	4.9 (1)	86 (13)	1 (1)	41 (24)
10Y3661	M	11140 (9)	21.5 (17)	4.8 (27)	85 (8)	1 (1)	37 (7)
09Y3502	M	11110 (10)	21.9 (14)	4.9 (16)	86 (15)	1 (1)	42 (28)
10Y3507	M	11030 (11)	22.3 (12)	4.9 (1)	84 (5)	1 (1)	40 (21)
10Y3717	M	11020 (12)	24.3 (3)	4.9 (1)	87 (18)	1 (1)	42 (27)
10Y3748	M	11010 (13)	19.3 (23)	4.9 (1)	84 (5)	1 (1)	41 (24)
12Y139	LA	10870 (14)	18.2 (27)	4.8 (30)	85 (8)	1 (1)	36 (6)
12Y130	LSR	10740 (15)	19.4 (22)	4.8 (25)	84 (7)	1 (1)	39 (12)
12Y132	L	10650 (16)	16.8 (30)	4.8 (25)	82 (4)	1 (1)	41 (26)
10Y2081	MPQ	10610 (17)	24.1 (4)	4.9 (16)	90 (26)	1 (1)	40 (18)
10Y2120	MPQ	10370 (18)	21.8 (16)	4.8 (27)	88 (21)	1 (1)	40 (21)
09Y2173	MPQ	10080 (19)	24.9 (2)	4.9 (1)	92 (28)	1 (1)	43 (30)
10Y3247	M	10070 (20)	19.6 (20)	4.9 (16)	82 (3)	1 (1)	38 (8)
A201	LA	9450 (21)	19.5 (21)	4.9 (12)	88 (23)	1 (1)	36 (5)
09Y2174	MPQ	9410 (22)	21.4 (18)	4.9 (16)	87 (17)	85 (31)	42 (29)
08Y1115	LA	9290 (23)	17.0 (29)	4.8 (30)	85 (8)	1 (1)	33 (1)
12Y135	LJ	8860 (24)	21.4 (19)	4.9 (12)	91 (27)	1 (1)	38 (9)
M401	MPQ	8630 (25)	30.6 (1)	4.9 (1)	101 (32)	1 (1)	39 (14)
11Y106	LJ	8320 (26)	24.0 (6)	4.7 (32)	89 (25)	1 (1)	46 (32)
12Y137	LB	7840 (27)	17.1 (28)	4.9 (16)	80 (1)	1 (1)	40 (20)
12Y133	LJ	7770 (28)	23.0 (7)	4.9 (12)	98 (31)	1 (1)	36 (4)
12Y138	LB	7760 (29)	15.5 (32)	4.9 (12)	86 (16)	1 (1)	38 (10)
CT202	LB	7150 (30)	16.6 (31)	4.9 (16)	88 (22)	1 (1)	33 (1)
11Y158	LB	6710 (31)	19.1 (24)	4.9 (16)	93 (30)	1 (1)	34 (3)
KOSH	SPQ	5180 (32)	19.1 (25)	4.9 (1)	92 (28)	90 (32)	44 (31)
MEAN		9880	21.1	4.9	87	6	39
CV		3.2	6.2	0.9	1	19.5	2.3
LSD (.05)		640	2.7	0.1	2	3	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; B = Basmati; A = aromatic; J = Jasmine;

SR = Stem Rot resistance.

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. 2012 Glenn Late Advanced Rice Variety Trial

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)
06Y575	L	8800 (1)	15.7 (6)	5.0 (1)	90 (6)	1 (1)	40 (8)
M402	MPQ	8260 (2)	18.9 (3)	5.0 (1)	94 (8)	2 (6)	37 (6)
M205	M	8220 (3)	19.3 (2)	5.0 (1)	89 (5)	1 (1)	35 (4)
09Y2176	MPQ	8120 (4)	17.8 (4)	5.0 (1)	90 (6)	1 (1)	38 (7)
CH201	SWX	8000 (5)	15.5 (8)	5.0 (1)	88 (3)	3 (8)	34 (3)
CH202	SPQ	7970 (6)	16.0 (5)	5.0 (1)	83 (2)	2 (6)	31 (2)
L206	L	7680 (7)	15.5 (7)	5.0 (1)	82 (1)	1 (1)	31 (1)
M202	M	7660 (8)	19.4 (1)	5.0 (1)	88 (3)	1 (1)	36 (5)
MEAN		8090	17.3	5.0	88	2	35
CV		3.3	4.8		0.6	108.2	4.1
LSD (.05)		400	1.2		1		2

Preliminary Lines and Varieties

M401	MPQ	10030 (1)	19.0 (1)	5.0 (1)	97 (32)	99 (32)	44 (30)
10Y3703	M	9490 (2)	18.4 (4)	5.0 (1)	88 (14)	1 (1)	37 (16)
11Y106	LJ	9420 (3)	13.6 (30)	5.0 (1)	91 (24)	6 (27)	46 (31)
12Y135	LJ	9360 (4)	14.1 (27)	5.0 (1)	93 (29)	1 (1)	37 (17)
11Y2183	MPQ	9360 (5)	18.4 (5)	5.0 (1)	92 (25)	1 (1)	39 (25)
09Y3502	M	8620 (6)	18.0 (7)	5.0 (1)	89 (20)	1 (1)	38 (23)
10Y3690	M	8500 (7)	18.2 (6)	5.0 (1)	88 (14)	1 (1)	36 (13)
10Y3507	M	8450 (8)	17.5 (10)	5.0 (1)	86 (3)	1 (1)	35 (9)
10Y3737	M	8430 (9)	17.6 (9)	5.0 (1)	88 (14)	1 (1)	35 (9)
10Y3773	M	8430 (10)	17.5 (10)	5.0 (1)	88 (14)	1 (1)	36 (14)
10Y2081	MPQ	8360 (11)	16.5 (17)	5.0 (1)	87 (4)	1 (1)	38 (22)
09Y2173	MPQ	8310 (12)	16.8 (14)	5.0 (1)	92 (25)	26 (30)	42 (29)
10Y3717	M	8300 (13)	17.1 (13)	5.0 (1)	90 (23)	16 (28)	40 (28)
09Y2174	MPQ	8280 (14)	16.5 (16)	5.0 (1)	87 (4)	21 (29)	38 (24)
12Y130	LSR	8280 (15)	14.9 (20)	5.0 (1)	87 (4)	1 (1)	37 (19)
10Y2120	MPQ	8270 (16)	18.8 (2)	5.0 (1)	89 (20)	1 (1)	37 (19)
08Y3314	M	8270 (17)	17.8 (8)	5.0 (1)	87 (4)	1 (1)	35 (11)
10Y3789	M	8230 (18)	18.6 (3)	5.0 (1)	87 (4)	1 (1)	37 (17)
12Y132	L	8110 (19)	14.2 (24)	5.0 (1)	88 (14)	1 (1)	40 (27)
12Y133	LJ	8100 (20)	14.5 (22)	5.0 (1)	93 (29)	1 (1)	35 (8)
12Y131	L	7980 (21)	14.5 (23)	5.0 (1)	87 (4)	1 (1)	38 (21)
10Y3661	M	7920 (22)	17.4 (12)	5.0 (1)	87 (4)	1 (1)	34 (7)
A201	LA	7640 (23)	14.8 (21)	5.0 (1)	89 (20)	1 (1)	33 (4)
12Y139	LA	7620 (24)	14.2 (24)	5.0 (1)	88 (14)	1 (1)	33 (4)
10Y3748	M	7340 (25)	16.7 (15)	5.0 (1)	87 (4)	1 (1)	35 (11)
10Y3247	M	7210 (26)	16.5 (17)	5.0 (1)	83 (1)	1 (1)	34 (6)
KOSH	SPQ	6850 (27)	16.1 (19)	5.0 (1)	95 (31)	97 (31)	46 (32)
08Y1115	LA	6830 (28)	14.1 (26)	5.0 (1)	85 (2)	1 (1)	31 (2)
12Y138	LB	5910 (29)	12.7 (32)	5.0 (1)	92 (25)	1 (1)	36 (14)
12Y137	LB	5900 (30)	13.0 (31)	5.0 (1)	87 (4)	1 (1)	39 (25)
CT202	LB	5500 (31)	13.8 (29)	5.0 (1)	87 (4)	1 (1)	31 (1)
11Y158	LB	5360 (32)	13.9 (28)	5.0 (1)	92 (25)	1 (1)	32 (3)
MEAN		7960	16.1	5.0	89	9	37
CV		6.4	3.6			92.6	4.3
LSD (.05)		1050	1.2			17	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; B = Basmati; A = aromatic; J = Jasmine;

SR = Stem Rot resistance.

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. 2012 Sutter Late Advanced Rice Variety Trial

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)
06Y575	L	10080 (1)	22.8 (5)	5.0 (1)	92 (7)	3 (4)	44 (7)
L206	L	9890 (2)	19.8 (8)	5.0 (1)	84 (3)	7 (6)	38 (2)
M202	M	9690 (3)	25.0 (4)	5.0 (1)	86 (4)	1 (1)	42 (6)
M205	M	9630 (4)	27.5 (3)	5.0 (1)	90 (5)	1 (1)	42 (5)
CH201	SWX	9280 (5)	20.0 (7)	5.0 (1)	84 (2)	3 (3)	39 (3)
CH202	SPQ	9130 (6)	20.6 (6)	5.0 (1)	81 (1)	7 (7)	38 (1)
M402	MPQ	9040 (7)	29.1 (2)	5.0 (1)	104 (8)	3 (4)	41 (4)
09Y2176	MPQ	8080 (8)	31.6 (1)	5.0 (1)	92 (6)	25 (8)	44 (8)
MEAN		9350	24.5	5.0	89	6	41
CV		4.3	3.4		1.4	96.8	2.4
LSD (.05)		600	1.2		2	9	1

Preliminary Lines and Varieties

12Y131	L	9860 (1)	21.3 (26)	5.0 (1)	86 (1)	6 (16)	42 (14)
12Y135	LJ	9850 (2)	22.3 (22)	5.0 (1)	91 (24)	1 (1)	41 (8)
10Y3690	M	9500 (3)	25.4 (16)	5.0 (1)	89 (11)	6 (16)	41 (9)
10Y3789	M	9470 (4)	28.3 (9)	5.0 (1)	89 (15)	1 (1)	43 (21)
10Y3703	M	9270 (5)	30.2 (6)	5.0 (1)	89 (11)	50 (28)	44 (22)
12Y130	LSR	9080 (6)	21.8 (25)	5.0 (1)	87 (4)	3 (13)	42 (12)
10Y3717	M	9080 (7)	28.6 (8)	5.0 (1)	91 (24)	1 (1)	43 (17)
12Y139	LA	9070 (8)	22.6 (21)	5.0 (1)	89 (15)	6 (16)	43 (18)
10Y3507	M	8790 (9)	27.3 (14)	5.0 (1)	87 (4)	5 (15)	44 (22)
A201	LA	8770 (10)	22.6 (20)	5.0 (1)	93 (27)	1 (1)	42 (11)
10Y3737	M	8740 (11)	27.9 (10)	5.0 (1)	90 (18)	1 (1)	42 (15)
12Y132	L	8630 (12)	22.0 (24)	5.0 (1)	87 (4)	6 (16)	44 (27)
10Y3748	M	8580 (13)	22.7 (18)	4.9 (31)	87 (4)	16 (21)	44 (24)
09Y2173	MPQ	8510 (14)	31.3 (3)	5.0 (1)	96 (30)	75 (29)	46 (30)
10Y3773	M	8500 (15)	27.4 (13)	5.0 (1)	88 (9)	3 (13)	39 (4)
12Y133	LJ	8420 (16)	22.7 (19)	5.0 (1)	103 (31)	1 (1)	38 (1)
12Y138	LB	8410 (17)	19.3 (31)	5.0 (1)	91 (24)	1 (1)	42 (15)
09Y3502	M	8370 (18)	29.2 (7)	5.0 (1)	90 (19)	20 (22)	44 (27)
CT202	LB	8170 (19)	18.9 (32)	5.0 (1)	86 (1)	1 (1)	39 (3)
10Y2120	MPQ	8040 (20)	27.7 (11)	5.0 (1)	90 (19)	45 (26)	44 (25)
11Y2183	MPQ	7850 (21)	31.4 (2)	5.0 (1)	93 (27)	35 (25)	41 (10)
10Y3247	M	7800 (22)	25.3 (17)	5.0 (1)	87 (8)	8 (20)	40 (7)
09Y2174	MPQ	7720 (23)	27.1 (15)	5.0 (1)	88 (9)	97 (31)	45 (29)
10Y3661	M	7550 (24)	27.7 (12)	4.9 (31)	89 (11)	26 (23)	39 (4)
12Y137	LB	7440 (25)	19.3 (30)	5.0 (1)	89 (11)	1 (1)	43 (20)
08Y1115	LA	7350 (26)	20.6 (27)	5.0 (1)	90 (19)	1 (1)	39 (2)
M401	MPQ	7200 (27)	33.9 (1)	5.0 (1)	111 (32)	1 (1)	44 (25)
08Y3314	M	7160 (28)	31.2 (4)	5.0 (1)	90 (19)	33 (24)	42 (12)
11Y158	LB	7040 (29)	20.2 (28)	5.0 (1)	89 (15)	1 (1)	40 (6)
10Y2081	MPQ	6540 (30)	31.0 (5)	5.0 (1)	90 (19)	95 (30)	43 (18)
11Y106	LJ	6290 (31)	19.6 (29)	5.0 (1)	86 (1)	48 (27)	47 (31)
KOSH	SPQ	4440 (32)	22.2 (23)	5.0 (1)	94 (29)	99 (32)	51 (32)
MEAN		8170	25.3	5.0	90	22	43
CV		7.7	4.1	1.1	0.6	94.6	3.6
LSD (.05)		1280	2.1		1	42	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; B = Basmati; A = aromatic; J = Jasmine;

SR = Stem Rot resistance.

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. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/
Late Rice Varieties by Location and Year (2008-2012)

Location	Year	M-205	M-402	M-202	L-206
Biggs (RES)	2008	10950	9220	10310	10740
	2009	9290	9110	8300	9950
	2010	11030	8240	10430	11610
	2011	10270	9200	9160	9990
	2012	11210	10260	11090	11180
Location Mean		10550	9206	9858	10694
Glenn	2008	8440	7240	8300	8710
	2009	10120	10610	9230	10440
	2010	9210	9360	7970	8340
	2011	9550	9820	9030	8900
	2012	8220	8260	7660	7680
Location Mean		9108	9058	8438	8814
Sutter	2008	8430	9180	8780	7830
	2009	8180	8010	7080	7470
	2010	9190	9300	10500	9390
	2011	9310	8000	9010	9780
	2012	9630	9040	9690	9890
Location Mean		8948	8706	9012	8872
Loc/Years Mean		9535	8990	9103	9460
Yield % M-202		104.8	98.8	100	103.9
Number of Tests		15	15	15	15

Table 20. 2012 Twitchell Island Large Plot Variety Test

Four varieties: CM101, S102, M104, and M206

Three replications, RCB

Drill Seeded 5-18-2012, Harvested 11-07-2012

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)
S102	S	8060 (1)	18.8 (4)	4.6 (4)	100 (1)	1 (1)	33 (4)
M104	M	8040 (2)	21.0 (3)	5.0 (1)	103 (2)	1 (1)	33 (3)
CM101	S	7160 (3)	21.5 (1)	4.8 (3)	105 (3)	1 (1)	29 (1)
M206	M	6960 (4)	21.2 (2)	5.0 (1)	110 (4)	1 (1)	32 (2)
MEAN		7550	20.6	4.9	105	1	32
CV		6.8	27.9	6.3	1.1		6.8
LSD (.05)					2		

S = short; M = medium; L = long.

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 21. 2012 Twitchell Island Small Plot Cold Tolerance Variety Test

Drill Seeded 5-18-2012, Harvested 11-07-2012

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)
M105	M	8250 (1)	22.3 (11)	5.0 (1)	106 (4)	1 (1)	33 (17)
S102	S	8060 (2)	18.1 (17)	5.0 (1)	109 (6)	1 (1)	32 (12)
09Y2141	SWX	7920 (3)	22.0 (13)	5.0 (1)	106 (3)	1 (1)	33 (14)
M104	M	7630 (4)	23.2 (9)	5.0 (1)	109 (7)	1 (1)	32 (13)
08Y3126	M	7480 (5)	24.9 (7)	5.0 (1)	112 (10)	1 (1)	31 (10)
M206	M	7440 (6)	25.4 (6)	5.0 (1)	113 (11)	1 (1)	33 (15)
06Y575	L	7430 (7)	22.1 (12)	5.0 (1)	115 (13)	1 (1)	33 (18)
11Y1044	L	7180 (8)	18.7 (16)	5.0 (1)	111 (8)	1 (1)	30 (6)
CM101	S	6930 (9)	17.3 (18)	4.8 (18)	105 (1)	1 (1)	31 (9)
09Y2179	S	6720 (10)	23.0 (10)	5.0 (1)	105 (2)	1 (1)	33 (16)
CH202	SPQ	6630 (11)	19.9 (14)	5.0 (1)	108 (5)	1 (1)	30 (7)
L206	L	6130 (12)	19.5 (15)	5.0 (1)	111 (9)	1 (1)	26 (1)
08Y3310	M	5190 (13)	29.3 (4)	4.9 (17)	122 (16)	1 (1)	28 (2)
M202	M	4650 (14)	27.8 (5)	5.0 (1)	121 (15)	1 (1)	31 (11)
09Y3887	M	3990 (15)	30.6 (2)	5.0 (1)	120 (14)	1 (1)	29 (4)
08Y3269	M	3640 (16)	32.5 (1)	5.0 (1)	122 (17)	1 (1)	31 (8)
CH201	SPQ	3520 (17)	23.8 (8)	5.0 (1)	114 (12)	1 (1)	29 (3)
M205	M	2990 (18)	29.9 (3)	5.0 (1)	124 (18)	1 (1)	29 (5)
MEAN		6210	23.9	5.0	113	1	31
CV		10.8	3.7	2	3.6		4.4
LSD (.05)		950	1.3		6		2

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

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.