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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2014 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 2014. 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.

Field preparations were completed early, however reduced water availability resulted in a 24% decrease in acres planted (433,000 acres) and harvested (428,000 acres) compared to 2013. The estimated statewide yield was 8,580 lbs/ac, the third highest average yield on record. Field preparation was completed earlier than normal due to a relatively dry spring. Planting was also completed earlier than normal, however several areas experienced delayed water deliveries this year resulting in large areas being planted in a short period of time. Relatively dry weather resulted in a timely harvest, high yields and good grain quality.

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/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 commercial varieties and seven advanced breeding lines were evaluated in the advanced test at each of the following locations.

	Date Planted	Date Harvested
• Butte County (RES)	05/12	09/28
• Sutter County (Lauppe)	05/22	10/13
• Yolo County (Webster)	05/13	10/03
• San Joaquin (Del Rio Partners)	05/08 (drill-seeded)	10/14

Commercial varieties included Calmochi-101, Calhkari-201, Calhkari-202, S-102, M-104, M-202, M-205, M-206, and L-206. Thirty experimental lines and six commercial varieties (A-202, CA-201, M-105, M-203, M208, and M-402) 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 eight advanced lines and were evaluated in the advanced test at each of the following locations.

	Date Planted	Date Harvested
• Butte County (RES)	05/13	09/30
• Butte County (Larrabee)	05/14	10/10
• Colusa County (Dennis)	05/18	10/12
• Yuba County (Matthews)	05/16	10/11

The advanced test included commercial varieties Calmochi-101, Calhkari-201, Calhkari-202, S-102, M-202, M-205, M-206, and L-206. Thirty-one preliminary lines and eight commercial varieties (Calhkari-201, Calmati-202, A-201, A-202, M-105, M-203, M-208, and M-402) 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

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

	Date Planted	Date Harvested
• Butte County (RES)	05/14	10/06
• Glenn County (Wiley)	05/05	10/21
• Sutter County (Tucker)	05/12	10/02

Commercial varieties included Calhkari-201, Calhkari-202, M-202, M-205, M-206, M-402, and L-206. Eighteen experimental lines and seven commercial varieties (Koshihikari, Calmati-202, Calmochi-101, M-105, M-203, M-401, M-208, and A-202) 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 county tests were harvested with the UCD ALMACO combine. The plots at the RES were harvested with the new RES ALMACO combine. The harvest areas for plots harvested by the UCD ALMACO and new RES ALMACO combines were 156.7 and 140 ft² respectively. The plot lengths at San Joaquin were variable due to trimming the alleyways. 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 (2010-2014) is presented in Table 8.

Grain yields in the advanced tests averaged 9,330 lbs/ac overall, 8,530 lbs/ac at Biggs-RES, 9,210 lbs/ac at Sutter, 9,420 lbs/ac at Yolo and 9,010 lbs/ac at San Joaquin (Tables 3-7). Over all locations, the three highest yielding entries on average were advanced medium grain lines 08Y3269, 11Y2022, and 12Y113 (9,670, 9,630, and 9,620 lbs/ac respectively). Top yielding commercial varieties M-206, M-205, M-104, and L-206 ranked fifth, seventh, ninth, and eleventh respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 10,320 to 6,160 lbs/ac (Table 3).

Short grain cultivar 09Y2141, M-104, and medium grain 11Y2022 were the three highest yielding advanced trial entries at the cooler San Joaquin site (Table 7). The medium-grain preliminary line 13Y3052 was the highest yielding cultivar (10,030 lbs/ac) in the San Joaquin trial.

Average grain moisture at harvest and the number of days to 50% heading decreased slightly and % lodging increased 20% in 2014 as compared to 2013. Seedling vigor and plant height were essentially the same as in 2013.

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-206, L-206, M-202, S-102, and Calmochi-101 yielded 103%, 98%, 96%, 94%, and 89% (respectively) of the standard variety M-104. Over the 5-year period and across locations, M-206 was the highest yielding variety at 9,320 lbs/ac followed by L-206 and M-202 at 8,940 lbs/ac, and 8,710 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. 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 (2010-2014) is found in Table 14.

Yields in the advanced line tests averaged 8,790 lbs/ac overall, 8,510 lbs/ac at the RES, 9,060 lbs/ac at Butte, 8,940 lbs/ac at Colusa and 8,650 lbs/ac at Yuba (Tables 9-13). The three highest yielding entries in the advanced test were the long grain lines 13Y1073, 11Y1005, and 11Y1008 (9,900, 9,630, and 9,610 lbs/ac respectively) when averaged over four locations in 2014 (Table 9). The yield of commercial varieties M-206, L-206, M-205, and M-202, ranked seventh, eighth, ninth, and twelfth over all locations (Table 9).

Average days to 50% heading ranged from 82 days at Biggs and Butte to 86 days at the slightly cooler Yuba County site. The commercial standard M-206 headed at 80 days at Biggs and 84 days

at Yuba. The average yield of M-105 decreased 3.3% compared to 2013. Nine experimental lines averaged significantly higher yields than M-105 in the Preliminary tests.

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-206, M-206, M-105, and S-102 yielded 107%, 107%, 107%, 104%, and 96% (respectively) of the standard variety M-202. L-206 was the highest yielding commercial variety (9,560 lbs/ac) followed by M-206 (9,540 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 two location combined yield summary is given in Table 15. The Sutter data was not included in the over location summary due to severe lodging that resulted in erratic yield estimates and a high yield cv. 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 (2010-2014) is found in Table 19.

Average yields in the advanced tests were 9,520 lbs/ac overall, 10,220 lbs/ac at the RES, 8,820 lbs/ac at Glenn and 8,590 lbs/ac at Sutter (Tables 15-18). The 2014 advanced over location average yield was 50 lbs/ac (7.3%) greater than the 2013 average. The average yields at the RES, Glenn, and Sutter increased 660, 200, and 170 lbs/ac respectively compared to the 2013 season. The advanced medium premium quality grain entry 11Y2183 was the highest yielding entry overall (10,350 lbs/ac). M-205 was the highest yielding commercial variety (9,730 lbs/ac), ranking fifth overall. L-206 and M-402 were the next highest yielding commercial varieties across locations, ranking sixth and seventh respectively (Table 15).

Average days to 50% heading decreased four days and lodging decreased 5% compared to 2013. At 113 days, Koshihikari required 5 more days than M-401 to reach the 50% heading date among all varieties averaged across all locations (Table 15). Seedling vigor and plant height were essentially the same as last year.

Averaged over the last 5 years and across locations, L-206 (9,510 lbs/ac) is the highest yielding commercial variety. M-205 and M-402 yielded 105% and 98%, 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 - 2014

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 on 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.
Calamyow-201 ^{5,6}	Early ⁴	2009	6.2	4.2	Low amylose content (≈6-7%), opaque 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 CT-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. 2014 County Weather Data - Daily Maximums and Minimums (°F). Temperatures collected in field at each site with HOBOware temperature stations. *

	RES (All tests)		Butte (Early)		Colusa (Early)		Yuba (Early)		Sutter (Very Early)		Yolo (Very Early)		San Joaquin (Very Early)		Glenn (Late)		Sutter (Late)	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May 01																		
May 02																		
May 03																		
May 04																		
May 05																55	68	
May 06																52	76	
May 07																51	76	
May 08																56	71	
May 09													74		51	76		
May 10													51	75	50	71		
May 11													50	83	56	81		
May 12													42	89	55	87	86	
May 13											91		47	93	59	90	58	92
May 14						94					58	95	53	97	58	94	62	96
May 15					64	92					58	94	53	98	62	93	66	95
May 16					63	89		89			54	91	50	92	59	90	57	93
May 17					60	83	61	82			56	83	52	81	57	83	58	85
May 18	59	78	60	78	66	79	60	80			57	80	58	80	61	79	58	80
May 19	57	74	57	75	57	75	57	75			56	77	56	76	57	75	56	77
May 20	54	72	54	73	55	77	56	73			52	75	53	74	54	76	54	76
May 21	55	85	56	85	58	85	58	85			51	86	49	84	57	86	55	85
May 22	62	89	59	88	61	90	61	89		88	55	88	52	85	61	91	56	88
May 23	63	90	62	89	63	91	62	89	58	92	57	92	55	91	66	91	56	94
May 24	68	92	66	93	70	92	66	91	64	91	63	93	60	92	69	92	62	93
May 25	67	96	69	96	68	95	67	94	63	94	61	95	57	96	66	94	61	96
May 26	66	90	67	90	68	91	67	90	64	91	62	92	59	93	63	90	62	93
May 27	63	86	63	86	61	87	64	87	60	88	58	87	57	88	62	86	58	88
May 28	58	78	56	78	57	79	58	78	58	80	57	79	51	82	55	79	57	79
May 29	60	84	60	84	62	85	59	84	58	85	61	85	49	87	63	84	62	86
May 30	59	83	60	83	58	83	61	83	59	81	55	84	47	84	57	83	54	84
May 31	54	84	55	84	53	85	53	85	52	85	49	85	46	86	54	84	51	86
Jun 01	60	88	61	88	60	88	61	90	60	89	55	89	43	91	59	87	57	90
Jun 02	62	87	63	87	61	87	62	86	58	82	57	87	51	81	60	86	56	87
Jun 03	54	85	56	85	53	84	54	86	53	84	51	85	51	85	55	83	52	85
Jun 04	64	95	64	95	64	96	63	94	59	94	57	95	45	94	62	95	58	95
Jun 05	67	91	68	91	67	93	67	93	62	93	61	94	57	93	65	90	59	95
Jun 06	66	92	66	91	65	94	64	92	59	93	55	90	59	93	55	90	59	93
Jun 07	65	95	67	94	65	98	64	96	59	96	59	95	54	92	67	94	57	95
Jun 08	73	98	73	94	72	96	68	94	67	97	68	96	59	100	71	97	67	96
Jun 09	69	100	68	96	68	97	68	97	70	101	66	99	61	102	64	94	67	101
Jun 10	71	97	72	92	72	94	69	96	66	97	70	95	61	90	70	92	66	95
Jun 11	61	83	61	82	61	85	61	84	59	81	59	86	58	79	60	84	59	84
Jun 12	55	81	55	80	55	82	55	82	55	82	55	82	54	78	55	81	55	82
Jun 13	58	83	57	81	57	83	58	83	57	84	55	83	57	84	54	84	57	83
Jun 14	61	84	58	82	59	84	58	83	60	84	62	84	56	85	61	85	63	84
Jun 15	60	81	59	80	58	81	60	82	58	81	56	83	54	80	57	81	55	82
Jun 16	58	78	57	78	57	77	58	78	57	75	56	78	55	73	55	79	55	77
Jun 17	56	81	54	78	55	80	56	80	54	80	54	80	54	82	54	80	54	80
Jun 18	56	88	54	89	58	87	56	86	58	88	60	87	54	87	57	86	58	88
Jun 19	60	88	57	89	60	85	61	89	60	88	57	87	53	88	57	85	57	87
Jun 20	61	90	58	90	61	87	60	91	62	89	59	90	59	87	58	88	57	89
Jun 21	61	87	59	87	59	85	61	90	61	85	59	87	57	81	59	86	58	86
Jun 22	58	86	59	87	58	85	57	88	58	86	55	87	53	85	58	85	56	86
Jun 23	58	88	61	87	58	86	57	91	57	87	56	88	54	86	60	86	56	88
Jun 24	64	89	66	89	63	91	62	91	61	87	59	90	61	84	64	89	61	87
Jun 25	63	85	64	82	62	85	61	82	62	79	60	84	63	77	64	85	60	82
Jun 26	62	81	62	79	62	80	63	83	61	79	64	81	61	76	63	79	62	79
Jun 27	62	86	63	83	61	84	62	86	60	84	59	87	58	80	62	83	60	86
Jun 28	62	87	62	86	60	87	63	88	60	88	59	86	59	84	61	85	59	86
Jun 29	64	96	66	93	64	94	64	95	61	92	58	94	60	91	64	91	61	91
Jun 30	65	96	65	98	65	99	67	97	66	98	62	97	62	94	65	97	64	97
Jul 01	67	90	68	88	66	89	67	92	63	84	62	90	60	83	66	88	63	88
Jul 02	62	89	64	89	60	88	61	89	56	88	56	88	56	84	62	88	56	88
Jul 03	63	88	64	88	63	87	62	89	59	91	60	89	59	86	63	87	60	88
Jul 04	62	91	65	88	62	87	62	91	58	89	59	89	58	86	63	87	58	88
Jul 05	58	92	60	89	57	88	58	93	55	89	56	87	58	89	55	89		
Jul 06	61	96	62	93	62	94	61	93	59	93	58	91	55	88	62	91	58	91
Jul 07	67	90	67	90	68	85	65	92	61	86	62	88	59	87	67	88	63	85
Jul 08	71	97	71	95	70	92	71	98	66	90	67	90	61	88	71	96	66	91
Jul 09	64	91	67	90	63	88	65	90	61	86	60	88	58	82	64	88	60	88
Jul 10	63	87	62	88	61	85	65	89	61	82	61	85	58	78	62	86	60	85
Jul 11	64	88	64	89	63	86	64	91	61	82	62	85	59	78	63	86	62	84
Jul 12	60	88	61	90	59	87	61	88	59	86	58	87	59	82	60	87	58	87
Jul 13	63	97	63	98	62	93	62	98	60	94	60	92	58	88	63	93	59	91
Jul 14	68	96	67	98	68	94	69	100	68	94	68	94	63	95	66	94	66	94
Jul 15	67	87	66	89	66	92	68	93	67	89	64	90	63	84	65	89	63	89
Jul 16	67	85	67	89	66	86	65	86	65	84	65	87	63	77	65	84	64	87
Jul 17	63	84	64	87	63	83	62	85	61	81	62	84	61	77	63	84	61	84
Jul 18	60	85	61	89	60	83	60	86	59	83	59	85	60	78	61	83	59	85
Jul 19	62	90	64	93	62	86	61	93	60	86	59	87	59	85	62	86	60	86
Jul 20	63	81	63	83	62	80	63	83	63	76	62	81	64	74	63	81	61	78
Jul 21	65	86	63	87	64	84	65	87	64	83	65	85	63	77	64	90	64	85
Jul 22	62	84	62	86	61	83	61	92	61	84	61	84	61	80	61	84	60	85
Jul 23	60	84	60	87	58	85	59	88	59	85	58	82	60	82	59	83	57	84
Jul 24	62	93	59	96	61	92	61	93	62	90	60	86	59	88	61	90	61	86
Jul 25	61	100	59	101	59	98	61	101	61	96	58	93	59	94	58	101	60	98
Jul 26	63	97	61	101	61	99	61	102	63	94	60	91	59	94	61	93	62	97
Jul 27	68	96	66	99	65	97	66	98	66	91	65	93	65	90	66	100	65	95
Jul 28	65	90	64	92	63	86	63	90	61	84	61	88	60	86	64	88	62	89
Jul 29	65	92	62	97	63	92	63	95	61	93	61	93	61	89	64	90	62	95
Jul 30	66	94	64	96	64	90	65	98	64	90	62	91	63	92	64	91	63	

Table 2. 2014 County Weather Data - Daily Maximums and Minimums (°F). (continued)

	RES		Butte (Early)		Colusa (Early)		Yuba (Early)		Sutter (Very Early)		Yolo (Very Early)		San Joaquin (Very Early)		Glenn (Late)		Sutter (Late)			
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max		
Sep 01	59	94	55	96	59	93	58	90	58	97	56	93	58	89	58	97	57	91		
Sep 02	61	91	56	90	58	92	58	89	58	86	56	90	58	88	58	93	56	87		
Sep 03	58	93	53	94	57	89	55	89	55	93	52	89	56	86	57	90	54	88		
Sep 04	57	93	51	94	54	91	56	88	55	93	53	89	56	88	53	96	54	87		
Sep 05	58	89	51	93	54	90	54	88	55	91	52	86	57	85	54	91	53	86		
Sep 06	58	91	52	91	55	90	55	89	55	91	52	88	56	86	55	91	54	85		
Sep 07	55	90	49	91	53	89	53	87	53	89	49	86	54	86	53	94	52	85		
Sep 08	54	84	48	86	52	83	53	81	52	80	47	85	54	78	52	84	50	84		
Sep 09	52	85	47	88	51	86	49	83	50	83	48	84	51	82	51	89	49	84		
Sep 10	52	92	50	91	53	88	51	87	50	90	50	92	49	91	52	93	50	89		
Sep 11	53	96	51	95	53	92	53	90	52	93	50	93	51	88	53	96	52	92		
Sep 12	56	95	52	95	54	92	53	92	53	93	51	91	51	91	55	98	52	92		
Sep 13	61	98	54	95	56	93	57	93	56	96	55	94	54	91	56	99	56	94		
Sep 14	60	92	54	93	57	90	56	89	55	92	54	89	55	91	56	90	55	90		
Sep 15	60	93	55	90	56	89	57	89	56	85	55	90	57	85	56	90	56	94		
Sep 16			51	88	52	85	56	85	54	84	49	90	51	85	61	86	51	87		
Sep 17			51	87	53	85	54	88	53	86	52	90	52	90	53	85	52	90		
Sep 18			62	87	58	83	66	84	58	82	61	87	58	85	59	84	57	85		
Sep 19			52	90	53	90	55	81	54	85	53	90	57	83	55	93	53	85		
Sep 20			54	89	55	85	56	87	55	84	55	90	55	85	57	87	56	87		
Sep 21			59	83	59	81	62	80	60	76	58	80	60	79	61	83	59	80		
Sep 22			52	89	53	87	54	87	54	86	51	90	58	86	57	87	52	87		
Sep 23			53	90	51	85	58	88	55	86	51	92	54	86	54	85	54	90		
Sep 24			61	87	61	85	61	86	58	84	55	89	60	85	56	82	58	88		
Sep 25			56	73	59	73	59	72	58	71	59	77	57	72	60	73	59	74		
Sep 26			49	80	50	80	51	74	49	79	52	82	49	77	53	81	53	77		
Sep 27			50	80	48	79	54	78	53	78	50	80	53	78	50	81	51	77		
Sep 28			51	73	50	69	55	72	52	72	53	72	50	70	53	71	53	72		
Sep 29			47	83	47	81	49	81	48	82	46	85	48	83	50	80	49	82		
Sep 30			51	85	49	83	53	82	53	81	49	84	51	80	51	81	51	82		
Oct 01			50	83	48	81	53	83	49	83	58	81	50	85	52	78	56	83		
Oct 02			41	91	41	90	44	87	42	86	41	87	42	89	43	87	43	94		
Oct 03			43	93	43	93	48	92	45	92	45	89	44	94	44	91				
Oct 04			46	95	45	94	49	92	45	94			43	94	46	96				
Oct 05			46	96	46	97	49	93	47	93			44	94	48	96				
Oct 06			46	98	47	95	51	92	49	93			45	90	47	101				
Oct 07			47	97	48	95	51	93	49	95			45	91	48	99				
Oct 08			46	97	47	93	48	93	46	94			45	95	47	94				
Oct 09			45	92	44	89	49	88	45	90			49	90	45	89				
Oct 10			45	93	45	89	50	87	45	89			50	86	46	89				
Oct 11					45	89	51	90	49	88			48	89	47	90				
Oct 12					63	99			51	89			48	89	54	84				
Oct 13									44	91			41	91	45	90				
Oct 14													45	91	42	70				
Oct 15															51	73				
Oct 16																44	76			
Oct 17																	43	73		
Oct 18																	50	84		
Oct 19																	46	81		
Oct 20																	46	77		
Oct 21																	40	73		
Oct 22																				
Oct 23																				
Oct 24																				
Oct 25																				
Oct 26																				
Oct 27																				
Oct 28																				
Oct 29																				
Oct 30																				
Oct 31																				

* temperatures for each location (except the RES) begin on the planting date and end on the day of harvest.

Table 3. 2014 Four Location Very Early Rice Variety Trials

Advanced Lines and Varieties												
Variety	Grain Type	Over All Ave Grain Yield at 14% Moisture		Single Location Yields				Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre	Biggs	Sutter	Yolo	San Joaquin						
08Y3269	M	9670 (1)	10070 (1)	9310 (8)	9960 (3)	9350 (6)	17.6 (7)	5.0 (7)	91 (13)	16 (4)	38 (11)	
11Y2022	MPQ	9630 (2)	9540 (5)	10020 (2)	9370 (11)	9590 (3)	17.9 (5)	4.9 (12)	85 (10)	34 (10)	39 (14)	
12Y113	MB	9620 (3)	9750 (3)	9650 (5)	9540 (9)	9550 (4)	18.5 (3)	5.0 (7)	88 (11)	45 (14)	39 (15)	
11Y1005	L	9570 (4)	9560 (4)	9860 (3)	10080 (1)	8770 (11)	15.5 (13)	4.9 (10)	85 (9)	3 (2)	40 (16)	
M206	M	9520 (5)	9200 (7)	9710 (4)	9770 (6)	9390 (5)	17.6 (8)	4.9 (10)	85 (7)	41 (12)	39 (13)	
11Y1008	L	9500 (6)	9220 (6)	10130 (1)	9630 (7)	9010 (7)	15.9 (12)	4.8 (16)	85 (8)	11 (3)	37 (8)	
M205	M	9380 (7)	9770 (2)	9170 (10)	9780 (5)	8810 (10)	17.8 (6)	4.9 (13)	94 (15)	21 (7)	37 (5)	
09Y2141	SWX	9350 (8)	8470 (10)	9300 (9)	9870 (4)	9740 (1)	18.5 (4)	5.0 (2)	81 (4)	41 (13)	38 (12)	
M104	M	9240 (9)	8150 (11)	9510 (6)	9610 (8)	9680 (2)	16.1 (10)	5.0 (6)	80 (2)	37 (11)	37 (7)	
09Y2179	S	9050 (10)	9020 (8)	8190 (15)	10040 (2)	8950 (8)	20.2 (1)	5.0 (5)	94 (15)	1 (1)	38 (10)	
L206	L	8860 (11)	8580 (9)	9440 (7)	8760 (15)	8660 (12)	15.3 (14)	4.9 (14)	84 (6)	20 (6)	35 (1)	
CH202	SPQ	8710 (12)	7930 (12)	8630 (14)	9340 (12)	8930 (9)	16.9 (9)	4.9 (15)	83 (5)	64 (16)	36 (2)	
M202	M	8620 (13)	7330 (14)	9060 (11)	9450 (10)	8650 (13)	19.1 (2)	5.0 (1)	93 (14)	20 (5)	38 (9)	
S102	S	8470 (14)	7640 (13)	8770 (13)	8980 (13)	8480 (14)	14.2 (16)	5.0 (2)	79 (1)	34 (9)	37 (6)	
CH201	SPQ	7870 (15)	5720 (16)	8840 (12)	8800 (14)	8110 (16)	16.1 (10)	4.9 (9)	88 (12)	51 (15)	36 (3)	
CM101	SWX	7580 (16)	6540 (15)	7780 (16)	7580 (16)	8440 (15)	14.3 (15)	5.0 (2)	80 (3)	32 (8)	36 (4)	
MEAN		9030	8530	9210	9420	9010	17	4.9	86	29	37	
CV		5.1	4.9	5.1	6.7	3.5	7.4	1.5	0.9	54.9	3.3	
LSD (.05)		320	600	670	910	450	0.9	0.1	1	11	1	
Preliminary Lines and Varieties												
10Y2043	S	10320 (1)	10210 (1)	10730 (1)	10670 (1)	9650 (12)	14.7 (35)	4.9 (34)	81 (5)	62 (35)	36 (3)	
13Y1073	L	9970 (2)	9850 (2)	9810 (5)	10240 (7)	9960 (2)	14.5 (36)	5.0 (12)	85 (17)	8 (5)	36 (4)	
11Y3326	M	9570 (3)	8410 (15)	9960 (4)	10000 (12)	9890 (3)	16.5 (20)	4.9 (19)	84 (11)	39 (25)	39 (29)	
12Y3097	MB	9530 (4)	9190 (4)	8910 (27)	10520 (3)	9490 (19)	16.8 (14)	4.9 (29)	85 (12)	32 (18)	37 (12)	
11Y3672	M	9500 (5)	8990 (5)	9330 (19)	10070 (9)	9600 (15)	17.0 (10)	5.0 (12)	86 (21)	15 (11)	38 (18)	
M105	M	9470 (6)	7680 (29)	10380 (2)	10150 (8)	9660 (11)	16.2 (25)	4.9 (19)	81 (3)	38 (24)	38 (20)	
11Y3606	M	9430 (7)	8420 (14)	9710 (8)	10320 (6)	9280 (23)	16.9 (12)	5.0 (5)	84 (10)	34 (21)	37 (11)	
13Y3046	M	9410 (8)	8090 (22)	9730 (6)	10070 (10)	9750 (6)	15.7 (30)	4.9 (29)	82 (6)	54 (33)	38 (25)	
12Y2174	MPQ	9400 (9)	8880 (8)	9280 (20)	9720 (16)	9710 (10)	16.5 (17)	5.0 (5)	91 (30)	18 (12)	39 (31)	
13Y3150	M	9390 (10)	7950 (24)	9680 (9)	10450 (4)	9460 (20)	15.8 (28)	4.9 (19)	87 (23)	9 (6)	38 (17)	
08Y3126	M	9340 (11)	8570 (12)	9590 (13)	9490 (19)	9710 (9)	17.7 (6)	4.9 (19)	85 (19)	35 (22)	39 (30)	
13Y3093	M	9340 (12)	8360 (16)	8940 (26)	10330 (5)	9730 (7)	16.6 (16)	5.0 (12)	85 (16)	9 (6)	37 (7)	
13Y3192	M	9290 (13)	7990 (23)	9630 (10)	10600 (2)	8940 (32)	15.6 (31)	4.9 (19)	89 (28)	33 (20)	38 (16)	
12Y2163	MPQ	9280 (14)	8790 (9)	9200 (22)	9790 (15)	9350 (21)	17.1 (9)	4.9 (19)	93 (35)	7 (4)	37 (8)	
13Y3071	M	9280 (15)	8220 (21)	9430 (15)	9880 (13)	9590 (16)	15.8 (29)	4.9 (29)	83 (8)	32 (17)	38 (19)	
13Y3043	M	9270 (16)	8270 (20)	9620 (11)	9540 (18)	9640 (13)	16.5 (19)	5.0 (12)	81 (4)	24 (14)	37 (10)	
13Y2015	S	9230 (17)	8310 (19)	9360 (17)	9660 (17)	9610 (14)	18.3 (2)	4.9 (36)	87 (22)	18 (12)	37 (13)	
13Y3012	M	9210 (18)	8970 (6)	9980 (3)	8190 (31)	9720 (8)	16.3 (24)	5.0 (5)	80 (1)	40 (27)	38 (24)	
13Y3036	M	9160 (19)	7830 (26)	9410 (16)	9880 (14)	9540 (17)	16.1 (26)	4.9 (19)	83 (9)	48 (31)	37 (9)	
13Y1037	LSR	9150 (20)	9280 (3)	9720 (7)	9090 (21)	8530 (34)	15.4 (33)	5.0 (5)	87 (24)	1 (1)	39 (33)	
13Y3052	M	9040 (21)	8700 (10)	9060 (24)	8400 (29)	10030 (1)	16.5 (18)	5.0 (12)	82 (6)	39 (26)	38 (26)	
12Y2108	MPQ	9000 (22)	8930 (7)	8760 (31)	8460 (28)	9850 (4)	16.9 (13)	4.9 (19)	91 (32)	27 (15)	40 (34)	
12Y2104	MPQ	8930 (23)	7910 (25)	8830 (29)	10020 (11)	8950 (31)	17.7 (5)	4.9 (19)	92 (33)	1 (1)	38 (23)	
13Y3216	MB	8890 (24)	7650 (30)	9340 (18)	9280 (20)	9270 (25)	17.7 (4)	5.0 (5)	86 (20)	45 (29)	38 (15)	
A202	LA	8850 (25)	8670 (11)	9600 (12)	8580 (26)	8530 (35)	16.3 (23)	5.0 (5)	88 (26)	15 (10)	37 (14)	
11Y3403	M	8830 (26)	8340 (18)	9150 (23)	8820 (23)	8990 (30)	16.0 (27)	4.9 (19)	85 (12)	1 (1)	35 (1)	
M208	MB	8590 (27)	7780 (27)	8520 (32)	8770 (24)	9280 (24)	16.3 (22)	5.0 (12)	91 (30)	28 (16)	39 (32)	
13Y3213	MB	8480 (28)	8350 (17)	9450 (14)	6630 (36)	9500 (18)	17.4 (7)	4.9 (33)	85 (15)	48 (31)	39 (28)	
12Y2167	SPQ	8480 (29)	7730 (28)	8150 (33)	8850 (22)	9180 (27)	19.1 (1)	5.0 (5)	88 (27)	14 (9)	38 (21)	
13Y3215	MB	8410 (30)	7330 (31)	9030 (25)	8070 (32)	9240 (26)	17.8 (3)	5.0 (12)	87 (24)	55 (34)	40 (35)	
M402	MPQ	8400 (31)	8500 (13)	7830 (34)	8270 (30)	9000 (29)	16.7 (15)	5.0 (2)	99 (36)	35 (23)	39 (27)	
09Y2064	SWX	8380 (32)	6220 (34)	9240 (21)	8740 (25)	9330 (22)	16.5 (21)	4.9 (29)	85 (12)	13 (8)	36 (5)	
M203	MPQ	8060 (33)	7130 (32)	6790 (36)	8540 (27)	9780 (5)	16.9 (11)	5.0 (1)	90 (29)	45 (28)	42 (36)	
11Y2223	S	7910 (34)	6460 (33)	8840 (38)	7700 (33)	8630 (33)	15.5 (32)	4.9 (35)	80 (2)	33 (19)	36 (6)	
13Y3220	MPQ	7720 (35)	6060 (35)	8770 (30)	6960 (34)	9070 (28)	17.3 (8)	5.0 (3)	92 (34)	68 (36)	38 (22)	
CA201	SLA	6160 (36)	4150 (36)	7240 (35)	6880 (35)	6380 (36)	14.8 (34)	5.0 (3)	85 (18)	46 (30)	35 (2)	
MEAN		8920	8120	9190	9090	9330	16.5	4.9	86	30	38	
CV		5.5	6.7	5.5	6.5	3.8	5.3	1.1	1.5	78.2	3.8	
LSD (.05)		490	1100	1020	1250	730	0.9	0.1	1	23	1	

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic; MB = medium blast resistant; SLA = short grain low amulose;

SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 4. 2014 Biggs Very Early Rice Variety Trials

<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	10070 (1)	18.1 (3)	4.8 (9)	84 (13)	1 (1)	38 (14)
M205	M	9770 (2)	18.3 (2)	4.7 (13)	86 (15)	1 (1)	37 (10)
12Y113	MB	9750 (3)	18.3 (1)	4.8 (9)	82 (12)	1 (1)	37 (11)
11Y1005	L	9560 (4)	15.3 (11)	4.8 (11)	80 (10)	1 (1)	41 (16)
11Y2022	MPQ	9540 (5)	17.5 (5)	4.7 (13)	80 (9)	1 (1)	39 (15)
11Y1008	L	9220 (6)	15.2 (12)	4.7 (13)	79 (7)	1 (1)	36 (9)
M206	M	9200 (7)	15.9 (9)	4.8 (11)	79 (7)	1 (1)	37 (12)
09Y2179	S	9020 (8)	17.4 (6)	4.9 (6)	87 (16)	1 (1)	36 (8)
L206	L	8580 (9)	14.9 (14)	4.7 (16)	77 (4)	1 (1)	33 (1)
09Y2141	SWX	8470 (10)	16.9 (7)	4.9 (2)	77 (4)	13 (14)	36 (7)
M104	M	8150 (11)	16.4 (8)	4.8 (7)	75 (2)	6 (12)	35 (5)
CH202	SPQ	7930 (12)	15.4 (10)	4.8 (7)	77 (6)	63 (16)	35 (6)
S102	S	7640 (13)	12.0 (16)	4.9 (2)	75 (3)	3 (11)	35 (4)
M202	M	7330 (14)	18.0 (4)	5.0 (1)	84 (14)	1 (1)	38 (13)
CM101	SWX	6540 (15)	13.2 (15)	4.9 (2)	74 (1)	8 (13)	34 (3)
CH201	SPQ	5720 (16)	15.0 (13)	4.9 (2)	82 (11)	25 (15)	34 (2)
MEAN		8530	16.1	4.8	80	8	36
CV		4.9	10.8	1.8	1	140.7	3.7
LSD (.05)		600	2.5	0.1	1	16	2
<i>Preliminary Lines and Varieties</i>							
10Y2043	S	10210 (1)	13.5 (35)	4.8 (13)	76 (3)	11 (29)	33 (3)
13Y1073	L	9850 (2)	16.1 (30)	4.8 (13)	80 (20)	1 (1)	35 (7)
13Y1037	LSR	9280 (3)	15.1 (33)	4.9 (5)	80 (23)	1 (1)	38 (28)
12Y3097	MB	9190 (4)	16.7 (17)	4.7 (30)	80 (20)	1 (1)	36 (17)
11Y3672	M	8990 (5)	16.6 (21)	4.8 (13)	79 (13)	1 (1)	37 (24)
13Y3012	M	8970 (6)	16.2 (27)	4.9 (5)	76 (3)	1 (1)	37 (23)
12Y2108	MPQ	8930 (7)	19.2 (5)	4.8 (21)	84 (31)	1 (1)	40 (35)
12Y2174	MPQ	8880 (8)	17.9 (8)	4.9 (5)	84 (31)	1 (1)	40 (35)
12Y2163	MPQ	8790 (9)	18.0 (7)	4.8 (21)	86 (35)	1 (1)	36 (20)
13Y3052	M	8700 (10)	16.6 (22)	4.8 (13)	77 (7)	1 (1)	38 (25)
A202	LA	8670 (11)	15.5 (32)	4.9 (5)	82 (28)	1 (1)	38 (29)
08Y3126	M	8570 (12)	17.4 (12)	4.9 (5)	79 (13)	1 (1)	36 (17)
M402	MPQ	8500 (13)	19.1 (6)	5.0 (2)	101 (36)	1 (1)	38 (29)
11Y3606	M	8420 (14)	17.0 (14)	4.9 (5)	78 (9)	1 (1)	35 (10)
11Y3326	M	8410 (15)	16.7 (19)	4.8 (21)	78 (10)	1 (1)	36 (16)
13Y3093	M	8360 (16)	16.7 (19)	4.8 (13)	79 (13)	1 (1)	34 (6)
13Y3213	MB	8350 (17)	17.5 (11)	4.7 (35)	79 (13)	6 (26)	38 (31)
11Y3403	M	8340 (18)	16.1 (31)	4.8 (21)	79 (13)	1 (1)	34 (5)
13Y2015	S	8310 (19)	17.6 (10)	4.7 (30)	80 (23)	1 (1)	36 (21)
13Y3043	M	8270 (20)	16.6 (22)	4.8 (13)	76 (3)	6 (26)	35 (12)
13Y3071	M	8220 (21)	16.7 (17)	4.7 (30)	77 (7)	1 (1)	35 (7)
13Y3046	M	8090 (22)	17.1 (13)	4.7 (30)	76 (6)	35 (33)	35 (10)
13Y3192	M	7990 (23)	16.2 (27)	4.8 (21)	81 (25)	1 (1)	36 (15)
13Y3150	M	7950 (24)	16.3 (26)	4.8 (21)	79 (13)	1 (1)	35 (12)
12Y2104	MPQ	7910 (25)	19.4 (4)	4.8 (21)	85 (33)	1 (1)	39 (33)
13Y3036	M	7830 (26)	16.1 (29)	4.8 (21)	78 (10)	20 (31)	36 (17)
M208	MB	7780 (27)	16.4 (24)	4.8 (13)	82 (28)	1 (1)	39 (34)
12Y2167	SPQ	7730 (28)	17.7 (9)	4.9 (5)	82 (26)	1 (1)	35 (9)
M105	M	7680 (29)	16.8 (16)	4.8 (21)	75 (2)	6 (26)	36 (21)
13Y3216	MB	7650 (30)	19.9 (3)	4.9 (5)	80 (20)	11 (29)	35 (14)
13Y3215	MB	7330 (31)	22.2 (1)	4.8 (13)	82 (26)	21 (32)	38 (27)
M203	MPQ	7130 (32)	16.3 (25)	5.0 (1)	83 (30)	35 (33)	38 (26)
11Y2223	S	6460 (33)	12.8 (36)	4.7 (35)	74 (1)	1 (1)	33 (1)
09Y2064	SWX	6220 (34)	17.0 (15)	4.7 (30)	79 (12)	1 (1)	34 (4)
13Y3220	MPQ	6060 (35)	21.8 (2)	4.9 (3)	85 (34)	45 (35)	38 (31)
CA201	SLA	4150 (36)	14.4 (34)	4.9 (3)	79 (13)	45 (35)	33 (2)
MEAN		8120	17.0	4.8	80	7	36
CV		6.7	6.6	1.5	0.7	160.4	4.2
LSD (.05)		1100	2.3	0.1	1	24	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic;

MB = medium blast resistant; SLA = short grain low amaloise; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 5. 2014 Sutter Very Early Rice Variety Trials

<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)
11Y1008	L	10130 (1)	13.3 (10)	5.0 (1)	80 (6)	38 (5)	36 (5)
11Y2022	MPQ	10020 (2)	14.1 (6)	5.0 (1)	81 (9)	74 (8)	38 (10)
11Y1005	L	9860 (3)	12.7 (14)	5.0 (1)	81 (10)	10 (2)	39 (16)
M206	M	9710 (4)	14.8 (4)	5.0 (1)	80 (8)	92 (9)	38 (11)
12Y113	MB	9650 (5)	12.6 (15)	5.0 (1)	85 (11)	97 (10)	39 (14)
M104	M	9510 (6)	13.9 (7)	5.0 (1)	75 (2)	97 (11)	38 (11)
L206	L	9440 (7)	12.6 (16)	5.0 (1)	80 (7)	58 (7)	35 (1)
08Y3269	M	9310 (8)	13.8 (8)	5.0 (1)	88 (12)	30 (3)	37 (9)
09Y2141	SWX	9300 (9)	16.3 (2)	5.0 (1)	74 (1)	99 (13)	39 (15)
M205	M	9170 (10)	13.3 (11)	5.0 (1)	91 (14)	35 (4)	37 (7)
M202	M	9060 (11)	14.9 (3)	5.0 (1)	92 (15)	44 (6)	36 (4)
CH201	SPQ	8840 (12)	13.1 (13)	5.0 (1)	88 (12)	98 (12)	36 (3)
S102	S	8770 (13)	13.7 (9)	5.0 (1)	75 (2)	99 (13)	37 (8)
CH202	SPQ	8630 (14)	14.5 (5)	4.9 (16)	79 (5)	99 (13)	35 (2)
09Y2179	S	8190 (15)	19.3 (1)	5.0 (1)	94 (16)	1 (1)	38 (13)
CM101	SWX	7780 (16)	13.1 (12)	5.0 (1)	76 (4)	99 (13)	37 (6)
MEAN		9210	14.1	5.0	82	67	37
CV		5.1	4	0.8	0.7	27.1	3.5
LSD (.05)		670	0.8		1	26	2
<i>Preliminary Lines and Varieties</i>							
10Y2043	S	10730 (1)	13.1 (21)	5.0 (1)	78 (7)	99 (29)	35 (2)
M105	M	10380 (2)	13.3 (16)	5.0 (1)	77 (5)	97 (27)	39 (32)
13Y3012	M	9980 (3)	13.3 (18)	5.0 (1)	75 (1)	99 (29)	39 (32)
11Y3326	M	9960 (4)	13.2 (20)	5.0 (1)	79 (9)	88 (26)	39 (26)
13Y1073	L	9810 (5)	11.7 (34)	5.0 (1)	82 (17)	31 (7)	35 (1)
13Y3046	M	9730 (6)	13.0 (22)	5.0 (1)	76 (3)	99 (29)	38 (21)
13Y1037	LSR	9720 (7)	13.6 (8)	5.0 (1)	84 (24)	1 (1)	38 (22)
11Y3606	M	9710 (8)	13.3 (14)	5.0 (1)	79 (11)	85 (24)	38 (19)
13Y3150	M	9680 (9)	12.8 (25)	5.0 (1)	84 (19)	11 (5)	39 (26)
13Y3192	M	9630 (10)	12.7 (27)	5.0 (1)	87 (30)	70 (17)	37 (13)
13Y3043	M	9620 (11)	13.4 (12)	5.0 (1)	76 (3)	48 (11)	37 (18)
A202	LA	9600 (12)	13.6 (8)	5.0 (1)	85 (28)	55 (15)	36 (6)
08Y3126	M	9590 (13)	13.6 (10)	5.0 (1)	81 (14)	73 (20)	39 (32)
13Y3213	MB	9450 (14)	12.3 (31)	5.0 (1)	81 (14)	99 (29)	38 (23)
13Y3071	M	9430 (15)	12.3 (31)	5.0 (1)	78 (7)	75 (21)	39 (30)
13Y3036	M	9410 (16)	12.8 (25)	5.0 (1)	79 (9)	85 (24)	37 (8)
13Y2015	S	9360 (17)	16.4 (2)	5.0 (1)	85 (27)	40 (8)	39 (26)
13Y3216	MB	9340 (18)	12.5 (30)	5.0 (1)	82 (16)	80 (23)	37 (12)
11Y3672	M	9330 (19)	12.8 (24)	5.0 (1)	84 (24)	45 (9)	37 (8)
12Y2174	MPQ	9280 (20)	12.9 (23)	5.0 (1)	84 (19)	60 (16)	37 (13)
09Y2064	SWX	9240 (21)	14.0 (5)	5.0 (1)	84 (19)	50 (12)	37 (8)
12Y2163	MPQ	9200 (22)	13.2 (19)	5.0 (1)	84 (19)	6 (4)	36 (7)
11Y3403	M	9150 (23)	14.1 (4)	5.0 (1)	80 (12)	1 (1)	36 (3)
13Y3052	M	9060 (24)	13.4 (12)	5.0 (1)	77 (6)	99 (29)	39 (26)
13Y3215	MB	9030 (25)	11.6 (35)	5.0 (1)	84 (19)	99 (29)	39 (31)
13Y3093	M	8940 (26)	13.3 (14)	5.0 (1)	83 (18)	25 (6)	37 (8)
12Y3097	MB	8910 (27)	13.5 (11)	5.0 (1)	80 (12)	70 (19)	37 (15)
11Y2223	S	8840 (28)	13.7 (7)	5.0 (1)	75 (2)	99 (29)	37 (15)
12Y2104	MPQ	8830 (29)	14.8 (3)	5.0 (1)	88 (34)	1 (1)	36 (4)
13Y3220	MPQ	8770 (30)	11.5 (36)	5.0 (1)	88 (32)	99 (29)	38 (19)
12Y2108	MPQ	8760 (31)	12.6 (28)	5.0 (1)	90 (35)	75 (21)	37 (15)
M208	MB	8520 (32)	13.3 (16)	5.0 (1)	87 (29)	70 (17)	38 (23)
12Y2167	SPQ	8150 (33)	17.5 (1)	5.0 (1)	87 (30)	46 (10)	40 (35)
M402	MPQ	7830 (34)	11.9 (33)	5.0 (1)	96 (36)	97 (27)	38 (23)
CA201	SLA	7240 (35)	12.6 (29)	5.0 (1)	84 (24)	50 (12)	36 (4)
M203	MPQ	6790 (36)	13.9 (6)	5.0 (1)	88 (32)	55 (14)	44 (36)
MEAN		9190	13.3	5.0	82	63	38
CV		5.5	3.8		2.2	49.9	3.1
LSD (.05)		1020	1		4	64	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic;

MB = medium blast resistant; SLA = short grain low amaloise; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 6. 2014 Yolo Very Early Rice Variety Trials

<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)
11Y1005	L	10080 (1)	17.8 (13)	5.0 (1)	85 (6)	1 (1)	43 (11)
09Y2179	S	10040 (2)	20.9 (9)	5.0 (1)	86 (9)	1 (1)	42 (9)
08Y3269	M	9960 (3)	20.9 (8)	5.0 (1)	93 (15)	30 (6)	43 (14)
09Y2141	SWX	9870 (4)	22.5 (5)	5.0 (1)	82 (4)	50 (11)	43 (12)
M205	M	9780 (5)	21.2 (6)	5.0 (1)	95 (16)	45 (10)	41 (6)
M206	M	9770 (6)	22.6 (4)	5.0 (1)	85 (7)	69 (13)	43 (13)
11Y1008	L	9630 (7)	19.5 (11)	4.7 (16)	86 (11)	3 (3)	40 (4)
M104	M	9610 (8)	17.2 (14)	5.0 (1)	80 (3)	43 (9)	40 (5)
12Y113	MB	9540 (9)	24.7 (2)	5.0 (1)	89 (13)	81 (15)	44 (16)
M202	M	9450 (10)	24.8 (1)	5.0 (1)	93 (14)	33 (7)	43 (10)
11Y2022	MPQ	9370 (11)	23.0 (3)	5.0 (1)	85 (7)	61 (12)	43 (14)
CH202	SPQ	9340 (12)	21.0 (7)	4.9 (13)	82 (4)	93 (16)	39 (2)
S102	S	8980 (13)	16.3 (15)	5.0 (1)	78 (1)	33 (8)	41 (7)
CH201	SPQ	8800 (14)	20.9 (10)	4.9 (13)	87 (12)	80 (14)	41 (8)
L206	L	8760 (15)	17.9 (12)	4.9 (15)	86 (9)	21 (4)	38 (1)
CM101	SWX	7580 (16)	16.1 (16)	5.0 (1)	79 (2)	21 (4)	39 (2)
MEAN		9420	20.5	5.0	86	41	41
CV		6.7	8.1	1.9	1	58.2	2.7
LSD (.05)		910	2.4	0.1	1	34	2
<i>Preliminary Lines and Varieties</i>							
10Y2043	S	10670 (1)	17.8 (32)	4.8 (36)	81 (3)	65 (27)	40 (6)
13Y3192	M	10600 (2)	18.1 (30)	5.0 (1)	89 (26)	62 (25)	44 (30)
12Y3097	MB	10520 (3)	20.1 (14)	5.0 (1)	85 (11)	55 (23)	41 (9)
13Y3150	M	10450 (4)	18.1 (29)	5.0 (1)	88 (23)	25 (12)	42 (14)
13Y3093	M	10330 (5)	20.2 (11)	5.0 (1)	85 (11)	11 (8)	40 (6)
11Y3606	M	10320 (6)	21.5 (4)	5.0 (1)	85 (11)	50 (20)	42 (22)
13Y1073	L	10240 (7)	15.6 (36)	5.0 (1)	86 (16)	1 (1)	41 (9)
M105	M	10150 (8)	18.8 (25)	5.0 (1)	81 (3)	48 (19)	42 (18)
11Y3672	M	10070 (9)	21.2 (6)	5.0 (1)	87 (19)	13 (10)	42 (18)
13Y3046	M	10070 (10)	18.2 (28)	5.0 (1)	83 (8)	80 (29)	44 (29)
12Y2104	MPQ	10020 (11)	20.1 (13)	5.0 (1)	93 (32)	1 (1)	42 (18)
11Y3326	M	10000 (12)	20.4 (8)	5.0 (1)	89 (24)	65 (27)	44 (33)
13Y3071	M	9880 (13)	19.6 (19)	5.0 (1)	84 (10)	50 (20)	42 (24)
13Y3036	M	9880 (14)	20.6 (7)	5.0 (1)	84 (9)	85 (30)	41 (12)
12Y2163	MPQ	9790 (15)	20.2 (12)	5.0 (1)	98 (36)	20 (11)	42 (14)
12Y2174	MPQ	9720 (16)	19.6 (20)	5.0 (1)	94 (34)	11 (8)	44 (32)
13Y2015	S	9660 (17)	20.0 (15)	4.9 (35)	86 (16)	30 (13)	38 (1)
13Y3043	M	9540 (18)	20.4 (8)	5.0 (1)	81 (3)	41 (17)	40 (3)
08Y3126	M	9490 (19)	21.3 (5)	5.0 (1)	87 (19)	65 (26)	43 (28)
13Y3216	MB	9280 (20)	22.3 (2)	5.0 (1)	87 (19)	90 (32)	42 (24)
13Y1037	LSR	9090 (21)	16.7 (35)	5.0 (1)	89 (24)	1 (1)	41 (9)
12Y2167	SPQ	8850 (22)	22.3 (1)	5.0 (1)	92 (31)	8 (7)	43 (27)
11Y3403	M	8820 (23)	17.2 (34)	5.0 (1)	86 (16)	1 (1)	39 (2)
M208	MB	8770 (24)	19.1 (22)	5.0 (1)	93 (32)	40 (16)	44 (30)
09Y2064	SWX	8740 (25)	18.0 (31)	5.0 (1)	83 (7)	1 (1)	40 (4)
A202	LA	8580 (26)	18.9 (24)	5.0 (1)	90 (28)	1 (1)	41 (13)
M203	MPQ	8540 (27)	19.3 (21)	5.0 (1)	91 (29)	90 (32)	49 (36)
12Y2108	MPQ	8460 (28)	19.6 (18)	5.0 (1)	91 (30)	31 (14)	45 (34)
13Y3052	M	8400 (29)	19.6 (17)	5.0 (1)	82 (6)	55 (22)	42 (14)
M402	MPQ	8270 (30)	19.7 (16)	5.0 (1)	97 (35)	43 (18)	42 (22)
13Y3012	M	8190 (31)	20.2 (10)	5.0 (1)	81 (1)	60 (24)	42 (18)
13Y3215	MB	8070 (32)	18.9 (23)	5.0 (1)	87 (19)	99 (36)	46 (35)
11Y2223	S	7700 (33)	18.4 (27)	5.0 (1)	81 (1)	31 (14)	40 (4)
13Y3220	MPQ	6960 (34)	18.8 (26)	5.0 (1)	89 (26)	97 (35)	43 (26)
CA201	SLA	6880 (35)	17.7 (33)	5.0 (1)	85 (11)	90 (32)	40 (8)
13Y3213	MB	6630 (36)	21.5 (3)	5.0 (1)	85 (11)	85 (30)	42 (14)
MEAN		9090	19.4	5.0	87	44	42
CV		6.5	6	1.4	1.7	71	4.3
LSD (.05)		1250	2.4		3	64	4

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic;

MB = medium blast resistant; SLA = short grain low amaloose; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 7. 2014 San Joaquin Very Early Rice Variety Trials

<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	9740 (1)	18.4 (5)	5.0 (1)	90 (3)	1 (1)	35 (10)
M104	M	9680 (2)	17.0 (8)	5.0 (1)	89 (1)	1 (1)	34 (8)
11Y2022	MPQ	9590 (3)	17.1 (7)	5.0 (1)	96 (10)	1 (1)	35 (10)
12Y113	MB	9550 (4)	18.5 (4)	5.0 (1)	97 (12)	1 (1)	37 (15)
M206	M	9390 (5)	16.9 (9)	5.0 (1)	94 (8)	1 (1)	36 (12)
08Y3269	M	9350 (6)	17.5 (6)	5.0 (1)	101 (13)	1 (1)	34 (6)
11Y1008	L	9010 (7)	15.7 (13)	5.0 (14)	94 (8)	1 (1)	36 (14)
09Y2179	S	8950 (8)	23.4 (1)	5.0 (1)	108 (16)	1 (1)	36 (12)
CH202	SPQ	8930 (9)	16.8 (10)	4.8 (16)	92 (6)	1 (1)	32 (2)
M205	M	8810 (10)	18.6 (3)	4.9 (15)	104 (15)	1 (1)	33 (4)
11Y1005	L	8770 (11)	16.3 (11)	5.0 (1)	93 (7)	1 (1)	38 (16)
L206	L	8660 (12)	15.9 (12)	5.0 (1)	92 (5)	1 (1)	33 (3)
M202	M	8650 (13)	18.9 (2)	5.0 (1)	102 (14)	1 (1)	34 (6)
S102	S	8480 (14)	14.8 (16)	5.0 (1)	89 (1)	1 (1)	35 (9)
CM101	SWX	8440 (15)	15.0 (15)	5.0 (1)	91 (4)	1 (1)	33 (5)
CH201	SPQ	8110 (16)	15.6 (14)	5.0 (1)	96 (10)	1 (1)	32 (1)
MEAN		9010	17.3	5.0	95	1	35
CV		3.5	3	1.1	1		3.2
LSD (.05)		450	0.7	0.1	1		2
<i>Preliminary Lines and Varieties</i>							
13Y3052	M	10030 (1)	16.4 (16)	5.0 (1)	92 (6)	1 (1)	36 (20)
13Y1073	L	9960 (2)	14.7 (32)	5.0 (1)	93 (8)	1 (1)	32 (1)
11Y3326	M	9890 (3)	15.6 (27)	5.0 (1)	93 (8)	1 (1)	36 (25)
12Y2108	MPQ	9850 (4)	16.2 (20)	5.0 (1)	102 (33)	1 (1)	37 (32)
M203	MPQ	9780 (5)	18.1 (6)	5.0 (1)	101 (29)	1 (1)	38 (35)
13Y3046	M	9750 (6)	14.4 (36)	5.0 (1)	92 (7)	1 (1)	36 (30)
13Y3093	M	9730 (7)	16.2 (21)	5.0 (1)	93 (12)	1 (1)	35 (15)
13Y3012	M	9720 (8)	15.4 (30)	5.0 (1)	90 (1)	1 (1)	35 (11)
08Y3126	M	9710 (9)	18.3 (4)	4.9 (34)	96 (23)	1 (1)	37 (32)
12Y2174	MPQ	9710 (10)	15.7 (25)	5.0 (1)	101 (29)	1 (1)	36 (18)
M105	M	9660 (11)	15.6 (26)	5.0 (1)	90 (2)	1 (1)	35 (12)
10Y2043	S	9650 (12)	14.4 (34)	5.0 (1)	91 (4)	75 (36)	34 (4)
13Y3043	M	9640 (13)	15.5 (29)	5.0 (1)	91 (3)	1 (1)	36 (25)
13Y2015	S	9610 (14)	19.1 (1)	4.9 (34)	96 (24)	1 (1)	36 (25)
11Y3672	M	9600 (15)	17.5 (7)	5.0 (1)	95 (19)	1 (1)	36 (22)
13Y3071	M	9590 (16)	14.6 (33)	5.0 (1)	93 (8)	1 (1)	36 (30)
13Y3036	M	9540 (17)	15.1 (31)	5.0 (1)	93 (8)	1 (1)	35 (10)
13Y3213	MB	9500 (18)	18.2 (5)	5.0 (1)	95 (19)	1 (1)	36 (25)
12Y3097	MB	9490 (19)	17.0 (12)	5.0 (1)	94 (15)	1 (1)	35 (15)
13Y3150	M	9460 (20)	16.2 (22)	5.0 (1)	98 (26)	1 (1)	36 (25)
12Y2163	MPQ	9350 (21)	17.0 (11)	5.0 (1)	106 (35)	1 (1)	34 (6)
09Y2064	SWX	9330 (22)	16.9 (13)	5.0 (1)	94 (15)	1 (1)	34 (8)
11Y3606	M	9280 (23)	15.8 (24)	5.0 (1)	94 (15)	1 (1)	34 (6)
M208	MB	9280 (24)	16.4 (18)	5.0 (1)	101 (28)	1 (1)	35 (12)
13Y3216	MB	9270 (25)	16.4 (18)	5.0 (1)	95 (19)	1 (1)	36 (22)
13Y3215	MB	9240 (26)	18.4 (3)	5.0 (1)	98 (27)	1 (1)	37 (34)
12Y2167	SPQ	9180 (27)	19.0 (2)	5.0 (1)	94 (15)	1 (1)	35 (15)
13Y3220	MPQ	9070 (28)	17.2 (8)	5.0 (1)	106 (35)	30 (35)	34 (9)
M402	MPQ	9000 (29)	16.0 (23)	5.0 (1)	102 (33)	1 (1)	36 (18)
11Y3403	M	8990 (30)	16.8 (14)	5.0 (1)	93 (12)	1 (1)	32 (1)
12Y2104	MPQ	8950 (31)	16.7 (15)	5.0 (1)	101 (29)	1 (1)	36 (22)
13Y3192	M	8940 (32)	15.5 (28)	5.0 (1)	101 (29)	1 (1)	35 (12)
11Y2223	S	8630 (33)	17.1 (10)	4.9 (36)	91 (4)	1 (1)	36 (20)
13Y1037	LSR	8530 (34)	16.4 (17)	5.0 (1)	97 (25)	1 (1)	40 (36)
A202	LA	8530 (35)	17.2 (9)	5.0 (1)	95 (22)	1 (1)	34 (4)
CA201	SLA	6380 (36)	14.4 (35)	5.0 (1)	93 (12)	1 (1)	33 (3)
MEAN		9330	16.4	5.0	96	4	35
CV		3.8	2.7	1	0.6	150.5	3.2
LSD (.05)		730	0.9		1	12	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic;

MB = medium blast resistant; SLA = short grain low amaloise; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 8. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2010-2014)

Location	Year	M-104	M-202	M-206	Calmochi 101	S-102	L-206
Biggs (RES)	2010	-	10470	11290	9470	9380	10200
	2011*	-	-	-	-	-	-
	2012	10260	10050	10420	8500	9370	10020
	2013	9710	8380	8610	8580	9120	9970
	2014	8150	7330	9200	6540	7640	8580
Location Mean		9373	9058	9880	8273	8878	9693
Sutter	2010	8270	6520	7890	9500	9360	8050
	2011*	-	-	-	-	-	-
	2012	8990	8810	9320	7500	8470	9570
	2013	9510	9990	9710	8340	9300	9700
	2014	9510	9060	9710	7780	8770	9440
Location Mean		9070	8595	9158	8280	8975	9190
Yolo	2010	8050	7890	8210	7190	7520	8230
	2011	10020	9590	10230	9320	9050	9490
	2012	9610	8930	9900	7450	8400	9060
	2013	9420	9260	9790	7830	8380	9000
	2014	9610	9450	9770	7580	8980	8760
Location Mean		9342	9024	9580	7874	8466	8908
San Joaquin	2010	8360	7760	7560	8070	7950	8170
	2011	8800	9090	9330	7850	7760	8340
	2012	8460	7490	8990	7880	8180	7570
	2013	8140	8140	8410	7680	7960	8180
	2014	9680	8650	9390	8440	8480	8660
Location Mean		8688	8226	8736	7984	8066	8184
Loc/Years Mean		9091	8714	9318	8083	8559	8944
Yield % M-104		100.0	95.9	102.5	88.9	94.2	98.4
Number of Tests		17	18	18	18	18	18

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

Table 9. 2014 Four Location Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain Yield at 14% Moisture lbs/acre	Single Location Yields				Ave Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
			Biggs	Butte	Colusa	Yuba					
13Y1073	L	9900 (1)	10330 (1)	9450 (6)	9670 (3)	10120 (2)	14.1 (14)	4.9 (11)	82 (9)	9 (5)	38 (4)
11Y1005	L	9630 (2)	9280 (5)	8660 (12)	9760 (1)	10810 (1)	13.9 (15)	4.9 (9)	80 (5)	5 (2)	41 (16)
11Y1008	L	9610 (3)	9000 (8)	9680 (3)	9720 (2)	10050 (3)	14.2 (13)	4.9 (15)	81 (7)	5 (3)	40 (14)
12Y113	MB	9530 (4)	9600 (4)	10040 (1)	9650 (4)	8820 (8)	18.1 (4)	4.9 (10)	83 (10)	55 (11)	40 (13)
08Y3269	M	9300 (5)	9670 (3)	9140 (8)	9600 (6)	8800 (9)	18.0 (7)	5.0 (5)	88 (13)	10 (6)	40 (8)
11Y2183	MPQ	9270 (6)	9710 (2)	8930 (11)	9530 (7)	8920 (7)	19.0 (1)	4.9 (16)	92 (16)	12 (7)	39 (7)
M206	M	9270 (7)	9240 (6)	9610 (5)	9280 (10)	8950 (6)	17.1 (8)	5.0 (2)	81 (8)	46 (10)	40 (12)
L206	L	9250 (8)	8640 (10)	9730 (2)	9380 (8)	9260 (4)	13.6 (16)	4.9 (13)	80 (4)	42 (9)	36 (1)
M205	M	9190 (9)	9140 (7)	9140 (7)	9370 (9)	9120 (5)	18.0 (6)	5.0 (3)	90 (14)	5 (3)	38 (5)
09Y2179	S	8920 (10)	8760 (9)	8950 (10)	9640 (5)	8330 (10)	19.0 (2)	5.0 (5)	90 (15)	1 (1)	40 (11)
09Y2141	SWX	8570 (11)	8310 (11)	9650 (4)	8310 (12)	8010 (11)	18.9 (3)	5.0 (5)	79 (3)	72 (13)	41 (15)
M202	M	8030 (12)	7010 (14)	8360 (14)	8720 (11)	8010 (12)	18.1 (5)	5.0 (5)	88 (12)	19 (8)	40 (10)
CH202	SPQ	7920 (13)	7580 (12)	9120 (9)	7590 (15)	7370 (14)	16.9 (9)	4.9 (13)	80 (6)	87 (16)	38 (3)
S102	S	7850 (14)	7320 (13)	8570 (13)	8080 (13)	7420 (13)	14.5 (12)	5.0 (3)	77 (1)	71 (12)	40 (9)
CH201	SPQ	7390 (15)	6220 (16)	8310 (15)	7740 (14)	7290 (15)	16.0 (10)	5.0 (1)	86 (11)	84 (15)	37 (2)
CM101	SWX	7040 (16)	6400 (15)	7570 (16)	7070 (16)	7120 (16)	14.5 (11)	4.9 (12)	78 (2)	76 (14)	39 (6)
MEAN		8790	8510	9060	8940	8650	16.5	4.9	83	37	39
CV		5	4.5	3.1	5.7	6.4	6.7	1.2	1.7	47.1	3.5
LSD (.05)		310	540	400	730	790	0.8	0	1	12	1

Preliminary Lines and Varieties

13Y1156	LA	9990 (1)	10020 (3)	9410 (10)	9600 (2)	10940 (1)	14.4 (36)	5.0 (8)	85 (13)	8 (23)	38 (8)
12Y2175	MPQ	9980 (2)	10550 (2)	9740 (4)	9790 (1)	9850 (7)	17.0 (19)	4.9 (31)	89 (34)	3 (16)	41 (36)
10Y2043	S	9660 (3)	10950 (1)	10520 (1)	8970 (15)	8210 (27)	16.2 (25)	4.9 (14)	79 (3)	93 (39)	38 (11)
13Y3131	M	9590 (4)	9740 (7)	9350 (13)	9150 (8)	10100 (2)	17.5 (12)	4.9 (14)	86 (18)	3 (15)	41 (33)
13Y3146	M	9500 (5)	9550 (9)	9360 (12)	9220 (5)	9890 (6)	17.3 (15)	5.0 (11)	85 (15)	16 (29)	39 (16)
13Y1059	L	9500 (6)	9660 (8)	9430 (9)	9360 (3)	9560 (11)	15.0 (29)	5.0 (11)	84 (11)	1 (1)	40 (28)
13Y3176	M	9470 (7)	9790 (6)	8860 (24)	9170 (7)	10050 (4)	17.1 (17)	4.9 (19)	87 (30)	1 (1)	38 (13)
10Y3737	M	9370 (8)	9270 (13)	9500 (7)	9070 (11)	9630 (10)	17.4 (13)	4.8 (38)	88 (32)	7 (22)	39 (17)
13Y3156	M	9300 (9)	9460 (12)	9670 (5)	9040 (12)	9040 (18)	17.4 (14)	4.9 (19)	90 (35)	1 (1)	38 (9)
13Y1106	L	9190 (10)	8280 (24)	9370 (11)	9130 (9)	10000 (5)	14.5 (35)	4.9 (19)	83 (9)	13 (26)	38 (10)
11Y3655	M	9190 (11)	8820 (20)	9770 (2)	8990 (14)	9170 (17)	17.9 (8)	5.0 (8)	88 (33)	2 (14)	38 (12)
11Y2182	MPQ	9170 (12)	9480 (11)	8950 (22)	9260 (4)	8990 (20)	19.1 (4)	4.9 (31)	91 (37)	1 (1)	39 (23)
A202	LA	9170 (13)	9810 (5)	8660 (27)	9180 (6)	9020 (19)	15.8 (27)	5.0 (11)	85 (15)	6 (21)	40 (31)
M208	MB	9150 (14)	9070 (14)	9120 (17)	8640 (17)	9780 (8)	16.5 (23)	5.0 (4)	86 (22)	8 (25)	39 (21)
13Y3177	M	9150 (15)	9030 (15)	9200 (16)	8290 (25)	10090 (3)	17.1 (16)	4.9 (19)	85 (13)	4 (18)	39 (18)
13Y3193	M	9090 (16)	9820 (4)	8940 (23)	8920 (16)	8700 (21)	17.8 (9)	4.9 (19)	91 (36)	1 (1)	38 (4)
13Y1132	LJ	9040 (17)	9520 (10)	8970 (20)	8280 (26)	9370 (13)	14.9 (30)	4.9 (19)	87 (29)	1 (1)	38 (6)
13Y3181	M	9040 (18)	9010 (16)	8740 (26)	8990 (13)	9410 (12)	16.8 (20)	4.9 (19)	85 (17)	1 (1)	40 (29)
13P358	LJ	8920 (19)	8990 (17)	8990 (19)	8480 (20)	9220 (14)	16.3 (24)	4.9 (19)	87 (25)	4 (17)	40 (32)
10Y3703	M	8880 (20)	8910 (19)	9760 (3)	8590 (18)	8270 (26)	18.6 (6)	4.9 (36)	87 (27)	14 (28)	40 (30)
13Y3158	M	8850 (21)	8770 (21)	8590 (28)	8340 (23)	9710 (9)	16.1 (26)	5.0 (8)	87 (27)	1 (1)	38 (5)
M105	M	8830 (22)	8570 (23)	9070 (18)	9100 (10)	8590 (22)	16.7 (22)	4.9 (19)	78 (2)	39 (31)	39 (19)
A201	LA	8750 (23)	8090 (28)	9490 (8)	8250 (28)	9190 (15)	14.1 (37)	4.9 (14)	81 (7)	13 (26)	39 (25)
11Y2230	SPQ	8520 (24)	8220 (26)	9590 (6)	8430 (21)	7830 (28)	20.5 (2)	5.0 (1)	87 (25)	75 (33)	39 (15)
12Y2107	SWX	8460 (25)	7550 (31)	8540 (29)	8570 (19)	9180 (16)	17.7 (10)	4.9 (30)	83 (8)	21 (30)	39 (24)
M402	MPQ	8380 (26)	8690 (22)	8220 (33)	8320 (24)	8290 (24)	21.3 (1)	5.0 (1)	102 (39)	1 (1)	39 (22)
11Y2160	SWX	8200 (27)	7160 (33)	8960 (21)	8410 (22)	8270 (25)	17.0 (18)	4.9 (14)	80 (5)	60 (32)	39 (14)
13P296	LJ	8040 (28)	7230 (32)	8230 (32)	8200 (29)	8500 (23)	14.7 (34)	5.0 (4)	84 (10)	1 (1)	43 (38)
11Y106	LJ	7940 (29)	8980 (18)	8500 (30)	7860 (30)	6430 (35)	14.7 (32)	4.6 (39)	86 (19)	4 (18)	42 (37)
09Y2122	S	7900 (30)	7710 (30)	9350 (14)	7430 (35)	7130 (32)	17.7 (11)	4.9 (19)	80 (4)	78 (35)	41 (35)
13Y3224	MPQ	7800 (31)	7110 (34)	8780 (25)	7800 (31)	7510 (30)	18.3 (7)	4.9 (33)	86 (21)	86 (38)	41 (34)
M203	MPQ	7720 (32)	7750 (29)	9340 (15)	7760 (32)	6030 (37)	18.8 (5)	5.0 (4)	84 (12)	77 (34)	44 (39)
12Y133	LJ	7710 (33)	8240 (25)	7990 (35)	8260 (27)	6320 (36)	16.7 (21)	4.9 (19)	97 (38)	1 (1)	37 (1)
13Y1117	LA	7560 (34)	6520 (37)	8430 (31)	7660 (33)	7620 (29)	13.6 (38)	4.9 (33)	87 (30)	1 (1)	39 (20)
12Y1178	LJ	7460 (35)	8180 (27)	7070 (38)	7450 (34)	7120 (33)	15.7 (28)	4.9 (37)	86 (19)	1 (1)	40 (27)
13Y3223	MPQ	7290 (36)	6710 (35)	8050 (34)	7230 (36)	7170 (31)	19.6 (3)	4.9 (33)	86 (24)	83 (36)	40 (26)
CA201	SLA	6440 (37)	4950 (39)	7660 (36)	6220 (37)	6940 (34)	14.7 (31)	4.9 (14)	81 (6)	84 (37)	38 (7)
CT202	LB	6280 (38)	6310 (38)	7210 (37)	6150 (38)	5460 (38)	13.5 (39)	5.0 (4)	86 (22)	5 (20)	37 (3)
12Y1054	LB	6040 (39)	6710 (36)	6750 (39)	5520 (39)	5160 (39)	14.7 (33)	5.0 (3)	76 (1)	8 (24)	37 (2)
MEAN		8580	8540	8880	8390	8510	16.7	4.9	86	21	39
CV		4.3	2.8	4.1	4.4	5.6	5.4	1.4	2.4	74.9	3.2
LSD (.05)		370	480	740	740	970	0.9	0.1	2	16	1

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic; MB=medium blast resistant; SLA= short low amaloise; 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.

Table 10. 2014 Biggs Early Rice Variety Trials

<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)
13Y1073	L	10330 (1)	15.0 (10)	4.7 (12)	79 (6)	1 (1)	35 (5)
11Y2183	MPQ	9710 (2)	18.1 (1)	4.8 (5)	91 (16)	1 (1)	36 (7)
08Y3269	M	9670 (3)	17.0 (5)	4.8 (5)	87 (12)	6 (8)	39 (15)
12Y113	MB	9600 (4)	17.6 (3)	4.8 (11)	83 (10)	60 (13)	38 (14)
11Y1005	L	9280 (5)	14.3 (11)	4.8 (10)	78 (5)	1 (1)	39 (16)
M206	M	9240 (6)	16.8 (6)	4.9 (2)	80 (8)	55 (12)	37 (11)
M205	M	9140 (7)	17.7 (2)	4.8 (4)	89 (15)	1 (1)	37 (9)
11Y1008	L	9000 (8)	14.3 (12)	4.6 (16)	79 (7)	1 (1)	36 (7)
09Y2179	S	8760 (9)	17.1 (4)	4.8 (5)	89 (14)	1 (1)	38 (13)
L206	L	8640 (10)	13.9 (13)	4.7 (14)	78 (4)	18 (9)	33 (2)
09Y2141	SWX	8310 (11)	15.3 (8)	4.8 (5)	77 (3)	50 (11)	37 (10)
CH202	SPQ	7580 (12)	15.2 (9)	4.7 (14)	80 (9)	85 (16)	33 (1)
S102	S	7320 (13)	12.4 (15)	4.9 (2)	75 (1)	70 (15)	36 (6)
M202	M	7010 (14)	16.2 (7)	4.8 (5)	88 (13)	1 (1)	38 (12)
CM101	SWX	6400 (15)	10.5 (16)	4.7 (13)	76 (2)	45 (10)	35 (4)
CH201	SPQ	6220 (16)	12.8 (14)	5.0 (1)	84 (11)	68 (14)	34 (3)
MEAN		8510	15.3	4.8	82	29	36
CV		4.5	7.4	2.1	2.1	40.8	3.2
LSD (.05)		540	1.6	0.1	2	17	2
<i>Preliminary Lines and Varieties</i>							
10Y2043	S	10950 (1)	12.0 (38)	4.8 (14)	75 (2)	97 (39)	35 (5)
12Y2175	MPQ	10550 (2)	17.1 (9)	4.6 (33)	86 (30)	11 (25)	40 (37)
13Y1156	LA	10020 (3)	14.9 (26)	4.8 (10)	80 (9)	18 (30)	36 (12)
13Y3193	M	9820 (4)	17.4 (7)	4.7 (20)	87 (34)	1 (1)	37 (21)
A202	LA	9810 (5)	14.6 (27)	4.8 (11)	82 (18)	23 (31)	40 (36)
13Y3176	M	9790 (6)	16.3 (19)	4.7 (20)	84 (23)	1 (1)	38 (25)
13Y3131	M	9740 (7)	16.7 (13)	4.8 (14)	82 (14)	1 (1)	39 (31)
13Y1059	L	9660 (8)	15.3 (24)	4.8 (13)	80 (9)	1 (1)	38 (27)
13Y3146	M	9550 (9)	16.8 (12)	4.8 (11)	82 (14)	11 (25)	37 (18)
13Y1132	LJ	9520 (10)	14.5 (28)	4.7 (30)	83 (21)	1 (1)	37 (14)
11Y2182	MPQ	9480 (11)	17.9 (1)	4.6 (33)	89 (36)	1 (1)	37 (17)
13Y3156	M	9460 (12)	16.7 (13)	4.7 (20)	87 (33)	1 (1)	36 (10)
10Y3737	M	9270 (13)	16.9 (10)	4.3 (39)	87 (34)	1 (1)	38 (27)
M208	MB	9070 (14)	16.9 (10)	4.9 (4)	83 (19)	1 (1)	37 (22)
13Y3177	M	9030 (15)	16.6 (15)	4.7 (20)	82 (14)	11 (25)	37 (14)
13Y3181	M	9010 (16)	16.1 (21)	4.7 (20)	81 (13)	1 (1)	38 (27)
13P358	LJ	8990 (17)	15.5 (23)	4.7 (28)	83 (19)	13 (29)	40 (35)
11Y106	LJ	8980 (18)	15.2 (25)	4.6 (35)	89 (37)	1 (1)	42 (39)
10Y3703	M	8910 (19)	17.7 (3)	4.8 (14)	85 (27)	1 (1)	38 (30)
11Y3655	M	8820 (20)	17.4 (5)	4.9 (7)	86 (32)	1 (1)	37 (18)
13Y3158	M	8770 (21)	16.4 (18)	4.9 (7)	84 (25)	1 (1)	35 (5)
M402	MPQ	8690 (22)	17.5 (4)	5.0 (1)	107 (39)	1 (1)	38 (25)
M105	M	8570 (23)	16.5 (17)	4.7 (20)	75 (2)	11 (25)	36 (10)
13Y1106	L	8280 (24)	14.5 (29)	4.7 (20)	80 (12)	1 (1)	36 (8)
12Y133	LJ	8240 (25)	16.2 (20)	4.7 (28)	94 (38)	1 (1)	34 (3)
11Y2230	SPQ	8220 (26)	16.6 (16)	5.0 (1)	82 (14)	35 (32)	37 (14)
12Y1178	LJ	8180 (27)	15.7 (22)	4.6 (32)	84 (26)	1 (1)	38 (23)
A201	LA	8090 (28)	14.0 (35)	4.8 (14)	79 (6)	1 (1)	36 (7)
M203	MPQ	7750 (29)	17.2 (8)	4.9 (4)	83 (22)	60 (37)	42 (38)
09Y2122	S	7710 (30)	13.3 (37)	4.7 (20)	78 (5)	50 (35)	39 (33)
12Y2107	SWX	7550 (31)	13.4 (36)	4.7 (30)	79 (6)	6 (24)	38 (24)
13P296	LJ	7230 (32)	14.2 (31)	4.9 (6)	80 (8)	1 (1)	39 (34)
11Y2160	SWX	7160 (33)	14.1 (32)	4.8 (14)	76 (4)	55 (36)	36 (9)
13Y3224	MPQ	7110 (34)	17.4 (5)	4.6 (36)	86 (30)	45 (34)	39 (31)
13Y3223	MPQ	6710 (35)	17.8 (2)	4.6 (36)	85 (28)	35 (32)	37 (18)
12Y1054	LB	6710 (36)	14.4 (30)	4.9 (3)	68 (1)	1 (1)	33 (1)
13Y1117	LA	6520 (37)	14.1 (33)	4.5 (38)	85 (29)	1 (1)	36 (12)
CT202	LB	6310 (38)	14.0 (34)	4.9 (7)	84 (24)	1 (1)	33 (2)
CA201	SLA	4950 (39)	11.1 (39)	4.8 (14)	80 (9)	80 (38)	35 (4)
MEAN		8540	15.6	4.7	83	15	37
CV		2.8	6.5	2.5	1.3	52.1	2.8
LSD (.05)		480	2	0.2	2	16	2

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

MB=medium blast resistant; LA=long aromatic; SLA=short 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. 2014 Butte Early Rice Variety Trials

<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)
12Y113	MB	10040 (1)	15.1 (8)	5.0 (1)	81 (9)	64 (14)	41 (13)
L206	L	9730 (2)	13.2 (12)	5.0 (1)	80 (8)	54 (12)	38 (1)
11Y1008	L	9680 (3)	12.8 (15)	5.0 (1)	78 (3)	1 (1)	40 (11)
09Y2141	SWX	9650 (4)	15.9 (3)	5.0 (1)	78 (5)	45 (11)	41 (16)
M206	M	9610 (5)	14.9 (9)	5.0 (1)	79 (7)	33 (10)	41 (15)
13Y1073	L	9450 (6)	13.2 (14)	5.0 (1)	81 (9)	1 (1)	38 (4)
M205	M	9140 (7)	15.2 (6)	5.0 (1)	87 (13)	1 (1)	38 (1)
08Y3269	M	9140 (8)	15.2 (5)	5.0 (1)	84 (11)	1 (1)	38 (6)
CH202	SPQ	9120 (9)	14.4 (10)	5.0 (1)	79 (6)	68 (15)	39 (8)
09Y2179	S	8950 (10)	16.7 (2)	5.0 (1)	90 (16)	1 (1)	40 (9)
11Y2183	MPQ	8930 (11)	16.7 (1)	5.0 (1)	89 (15)	1 (1)	38 (4)
11Y1005	L	8660 (12)	12.3 (16)	5.0 (1)	77 (2)	1 (1)	41 (14)
S102	S	8570 (13)	13.7 (11)	5.0 (1)	76 (1)	20 (9)	40 (9)
M202	M	8360 (14)	15.1 (7)	5.0 (1)	87 (13)	1 (1)	40 (12)
CH201	SPQ	8310 (15)	15.3 (4)	5.0 (1)	86 (12)	94 (16)	38 (3)
CM101	SWX	7570 (16)	13.2 (13)	5.0 (1)	78 (4)	61 (13)	39 (7)
MEAN		9060	14.6	5.0	82	28	39
CV		3.1	3.3		0.8	70	3.1
LSD (.05)		400	0.7		1	28	2
<i>Preliminary Lines and Varieties</i>							
10Y2043	S	10520 (1)	14.6 (9)	5.0 (1)	79 (3)	78 (35)	37 (4)
11Y3655	M	9770 (2)	14.7 (7)	5.0 (1)	87 (35)	6 (25)	38 (7)
10Y3703	M	9760 (3)	14.6 (8)	5.0 (1)	85 (30)	10 (26)	41 (32)
12Y2175	MPQ	9740 (4)	13.5 (21)	5.0 (1)	86 (32)	1 (1)	41 (34)
13Y3156	M	9670 (5)	13.9 (18)	5.0 (1)	87 (34)	1 (1)	40 (29)
11Y2230	SPQ	9590 (6)	16.2 (2)	5.0 (1)	84 (21)	97 (36)	38 (10)
10Y3737	M	9500 (7)	13.9 (17)	5.0 (1)	83 (15)	26 (29)	39 (16)
A201	LA	9490 (8)	11.9 (36)	5.0 (1)	81 (8)	1 (1)	41 (33)
13Y1059	L	9430 (9)	12.1 (33)	5.0 (1)	81 (8)	1 (1)	40 (24)
13Y1156	LA	9410 (10)	12.0 (34)	5.0 (1)	82 (12)	11 (28)	39 (19)
13Y1106	L	9370 (11)	12.8 (28)	5.0 (1)	82 (11)	1 (1)	40 (22)
13Y3146	M	9360 (12)	14.5 (11)	5.0 (1)	84 (21)	1 (1)	39 (18)
13Y3131	M	9350 (13)	14.3 (14)	5.0 (1)	84 (21)	3 (23)	41 (31)
09Y2122	S	9350 (14)	15.5 (4)	5.0 (1)	80 (5)	65 (34)	40 (24)
M203	MPQ	9340 (15)	13.9 (18)	5.0 (1)	81 (10)	97 (36)	44 (38)
13Y3177	M	9200 (16)	14.8 (6)	5.0 (1)	83 (15)	5 (24)	39 (14)
M208	MB	9120 (17)	12.9 (27)	5.0 (1)	84 (21)	31 (31)	40 (22)
M105	M	9070 (18)	13.7 (20)	5.0 (1)	77 (2)	36 (32)	40 (24)
13P358	LJ	8990 (19)	12.7 (30)	5.0 (1)	84 (25)	1 (1)	41 (34)
13Y1132	LJ	8970 (20)	11.7 (38)	5.0 (1)	85 (30)	1 (1)	38 (9)
11Y2160	SWX	8960 (21)	14.3 (13)	5.0 (1)	79 (3)	30 (30)	40 (27)
11Y2182	MPQ	8950 (22)	14.8 (5)	5.0 (1)	86 (32)	1 (1)	40 (21)
13Y3193	M	8940 (23)	14.0 (16)	5.0 (1)	89 (37)	1 (1)	38 (6)
13Y3176	M	8860 (24)	13.4 (24)	5.0 (1)	84 (25)	1 (1)	38 (5)
13Y3224	MPQ	8780 (25)	14.5 (11)	5.0 (1)	83 (14)	99 (38)	42 (36)
13Y3181	M	8740 (26)	14.2 (15)	5.0 (1)	83 (15)	1 (1)	39 (12)
A202	LA	8660 (27)	13.3 (25)	5.0 (1)	84 (25)	1 (1)	41 (30)
13Y3158	M	8590 (28)	13.2 (26)	5.0 (1)	84 (25)	1 (1)	37 (3)
12Y2107	SWX	8540 (29)	14.6 (9)	5.0 (1)	80 (5)	1 (1)	39 (14)
11Y106	LJ	8500 (30)	12.3 (31)	5.0 (1)	84 (25)	10 (26)	42 (36)
13Y1117	LA	8430 (31)	11.8 (37)	5.0 (1)	87 (35)	1 (1)	39 (12)
13P296	LJ	8230 (32)	12.2 (32)	5.0 (1)	83 (15)	1 (1)	45 (39)
M402	MPQ	8220 (33)	18.5 (1)	5.0 (1)	99 (39)	1 (1)	39 (16)
13Y3223	MPQ	8050 (34)	15.6 (3)	5.0 (1)	83 (15)	99 (38)	40 (27)
12Y133	LJ	7990 (35)	13.5 (22)	5.0 (1)	93 (38)	1 (1)	37 (2)
CA201	SLA	7660 (36)	13.4 (23)	5.0 (1)	80 (5)	60 (33)	39 (19)
CT202	LB	7210 (37)	11.5 (39)	5.0 (1)	83 (15)	1 (1)	38 (7)
12Y1178	LJ	7070 (38)	12.8 (29)	5.0 (1)	82 (12)	1 (1)	38 (10)
12Y1054	LB	6750 (39)	12.0 (35)	5.0 (1)	73 (1)	1 (1)	37 (1)
MEAN		8880	13.7	5.0	83	20	40
CV		4.1	5.3		1	62.9	2.7
LSD (.05)		740	1.5		2	26	2

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic; MB=medium blast resistant; SLA= short low amalose; 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.

Table 12. 2014 Colusa Early Rice Variety Trials

<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)
11Y1005	L	9760 (1)	12.7 (16)	5.0 (1)	81 (5)	1 (1)	41 (15)
11Y1008	L	9720 (2)	13.6 (13)	4.9 (15)	83 (8)	1 (1)	41 (14)
13Y1073	L	9670 (3)	12.9 (15)	5.0 (1)	84 (10)	1 (1)	38 (5)
12Y113	MB	9650 (4)	17.7 (4)	5.0 (1)	83 (8)	23 (11)	40 (12)
09Y2179	S	9640 (5)	18.1 (3)	5.0 (1)	85 (11)	1 (1)	40 (13)
08Y3269	M	9600 (6)	16.9 (8)	5.0 (1)	90 (14)	1 (1)	40 (9)
11Y2183	MPQ	9530 (7)	19.4 (2)	4.7 (16)	94 (16)	1 (1)	39 (6)
L206	L	9380 (8)	13.0 (14)	5.0 (1)	83 (6)	1 (1)	35 (1)
M205	M	9370 (9)	17.5 (6)	5.0 (1)	90 (15)	1 (1)	37 (2)
M206	M	9280 (10)	15.7 (12)	5.0 (1)	83 (7)	6 (10)	39 (8)
M202	M	8720 (11)	17.2 (7)	5.0 (1)	86 (13)	3 (9)	39 (7)
09Y2141	SWX	8310 (12)	21.3 (1)	5.0 (1)	80 (4)	97 (14)	42 (16)
S102	S	8080 (13)	16.2 (10)	5.0 (14)	77 (1)	96 (13)	40 (11)
CH201	SPQ	7740 (14)	16.4 (9)	5.0 (1)	85 (12)	74 (12)	38 (3)
CH202	SPQ	7590 (15)	17.5 (5)	5.0 (1)	80 (3)	98 (15)	38 (4)
CM101	SWX	7070 (16)	16.1 (11)	5.0 (1)	79 (2)	98 (15)	40 (9)
MEAN		8940	16.4	5.0	84	31	39
CV		5.7	4.3	1.5	1.2	32	4.2
LSD (.05)		730	1	0.1	1	14	2
<i>Preliminary Lines and Varieties</i>							
12Y2175	MPQ	9790 (1)	14.9 (27)	5.0 (1)	90 (33)	1 (1)	42 (35)
13Y1156	LA	9600 (2)	13.1 (35)	5.0 (1)	87 (21)	1 (1)	37 (3)
13Y1059	L	9360 (3)	13.5 (33)	5.0 (1)	86 (12)	1 (1)	40 (24)
11Y2182	MPQ	9260 (4)	18.4 (6)	5.0 (1)	90 (33)	1 (1)	40 (28)
13Y3146	M	9220 (5)	16.4 (18)	5.0 (1)	87 (20)	50 (30)	39 (14)
A202	LA	9180 (6)	14.3 (29)	5.0 (1)	86 (12)	1 (1)	40 (24)
13Y3176	M	9170 (7)	16.7 (13)	5.0 (1)	90 (33)	1 (1)	38 (8)
13Y3131	M	9150 (8)	15.9 (22)	5.0 (1)	86 (12)	6 (27)	39 (17)
13Y1106	L	9130 (9)	13.1 (34)	5.0 (1)	83 (7)	1 (1)	38 (8)
M105	M	9100 (10)	15.4 (25)	5.0 (1)	78 (2)	60 (33)	38 (8)
10Y3737	M	9070 (11)	16.5 (15)	5.0 (1)	90 (31)	1 (1)	39 (12)
13Y3156	M	9040 (12)	16.5 (15)	5.0 (1)	91 (37)	1 (1)	38 (11)
13Y3181	M	8990 (13)	16.2 (19)	5.0 (1)	86 (18)	1 (1)	41 (34)
11Y3655	M	8990 (14)	16.9 (12)	5.0 (1)	89 (29)	1 (1)	40 (24)
10Y2043	S	8970 (15)	16.0 (21)	5.0 (1)	78 (3)	99 (36)	40 (19)
13Y3193	M	8920 (16)	16.9 (11)	5.0 (1)	89 (29)	1 (1)	38 (6)
M208	MB	8640 (17)	16.4 (17)	5.0 (1)	86 (18)	1 (1)	39 (17)
10Y3703	M	8590 (18)	17.6 (7)	4.8 (37)	87 (21)	1 (1)	39 (14)
12Y2107	SWX	8570 (19)	18.8 (4)	5.0 (1)	86 (12)	6 (27)	40 (29)
13P358	LJ	8480 (20)	15.7 (23)	5.0 (1)	87 (21)	1 (1)	40 (19)
11Y2230	SPQ	8430 (21)	21.6 (2)	5.0 (1)	90 (31)	75 (34)	40 (23)
11Y2160	SWX	8410 (22)	17.3 (9)	5.0 (1)	82 (6)	55 (32)	39 (14)
13Y3158	M	8340 (23)	15.6 (24)	5.0 (1)	88 (27)	1 (1)	40 (19)
M402	MPQ	8320 (24)	23.4 (1)	5.0 (1)	99 (39)	1 (1)	40 (24)
13Y3177	M	8290 (25)	16.0 (20)	5.0 (1)	86 (12)	1 (1)	40 (29)
13Y1132	LJ	8280 (26)	14.8 (28)	5.0 (1)	91 (36)	1 (1)	37 (1)
12Y133	LJ	8260 (27)	16.6 (14)	5.0 (1)	97 (38)	1 (1)	38 (6)
A201	LA	8250 (28)	12.9 (36)	5.0 (1)	83 (8)	1 (1)	40 (19)
13P296	LJ	8200 (29)	13.8 (32)	5.0 (1)	85 (11)	1 (1)	43 (39)
11Y106	LJ	7860 (30)	13.9 (30)	3.7 (39)	85 (10)	1 (1)	42 (37)
13Y3224	MPQ	7800 (31)	17.4 (8)	5.0 (1)	86 (12)	99 (36)	41 (33)
M203	MPQ	7760 (32)	17.1 (10)	5.0 (1)	84 (9)	50 (30)	42 (37)
13Y1117	LA	7660 (33)	12.4 (37)	5.0 (1)	88 (27)	1 (1)	41 (32)
12Y1178	LJ	7450 (34)	13.8 (31)	4.8 (37)	87 (21)	1 (1)	42 (35)
09Y2122	S	7430 (35)	20.1 (3)	5.0 (1)	80 (4)	99 (36)	41 (31)
13Y3223	MPQ	7230 (36)	18.5 (5)	5.0 (1)	87 (21)	99 (36)	39 (13)
CA201	SLA	6220 (37)	15.1 (26)	5.0 (1)	80 (5)	97 (35)	38 (4)
CT202	LB	6150 (38)	11.8 (39)	5.0 (1)	87 (21)	1 (1)	38 (4)
12Y1054	LB	5520 (39)	12.0 (38)	5.0 (1)	72 (1)	21 (29)	37 (1)
MEAN		8390	16.0	5.0	86	22	40
CV		4.4	4.2	1.3	1.1	78	3.6
LSD (.05)		740	1.4	0.1	2	34	3

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic;

MB=medium blast resistant; SLA= short low amalose; 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.

Table 13. 2014 Yuba Early Rice Variety Trials

<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)
11Y1005	L	10810 (1)	16.4 (12)	5.0 (1)	85 (9)	15 (2)	45 (15)
13Y1073	L	10120 (2)	15.4 (15)	5.0 (1)	84 (8)	33 (5)	41 (4)
11Y1008	L	10050 (3)	16.0 (13)	5.0 (1)	84 (7)	18 (3)	44 (14)
L206	L	9260 (4)	14.1 (16)	5.0 (1)	81 (2)	97 (11)	39 (1)
M205	M	9120 (5)	21.7 (7)	5.0 (1)	93 (14)	18 (3)	42 (7)
M206	M	8950 (6)	21.0 (8)	5.0 (1)	84 (5)	90 (10)	42 (10)
11Y2183	MPQ	8920 (7)	22.0 (5)	5.0 (1)	95 (15)	47 (7)	42 (6)
12Y113	MB	8820 (8)	21.9 (6)	5.0 (1)	85 (9)	72 (9)	42 (7)
08Y3269	M	8800 (9)	22.9 (4)	5.0 (1)	92 (13)	33 (5)	42 (9)
09Y2179	S	8330 (10)	24.0 (1)	5.0 (1)	97 (16)	1 (1)	42 (11)
09Y2141	SWX	8010 (11)	23.0 (3)	5.0 (1)	82 (4)	97 (11)	45 (16)
M202	M	8010 (12)	23.7 (2)	5.0 (1)	90 (12)	71 (8)	42 (12)
S102	S	7420 (13)	15.7 (14)	5.0 (1)	79 (1)	99 (14)	43 (13)
CH202	SPQ	7370 (14)	20.5 (9)	5.0 (1)	84 (6)	98 (13)	41 (4)
CH201	SPQ	7290 (15)	19.7 (10)	5.0 (1)	89 (11)	99 (14)	40 (2)
CM101	SWX	7120 (16)	18.3 (11)	5.0 (1)	81 (2)	99 (14)	41 (3)
MEAN		8650	19.8	5.0	86	62	42
CV		6.4	8.6		2.1	40.6	3.1
LSD (.05)		790	2.4		3	36	2
<i>Preliminary Lines and Varieties</i>							
13Y1156	LA	10940 (1)	17.7 (34)	5.0 (1)	90 (18)	1 (1)	39 (6)
13Y3131	M	10100 (2)	23.0 (10)	5.0 (1)	92 (26)	1 (1)	43 (36)
13Y3177	M	10090 (3)	21.2 (22)	5.0 (1)	89 (13)	1 (1)	40 (17)
13Y3176	M	10050 (4)	21.9 (17)	5.0 (1)	92 (28)	1 (1)	40 (12)
13Y1106	L	10000 (5)	17.7 (36)	5.0 (1)	89 (13)	50 (28)	39 (5)
13Y3146	M	9890 (6)	21.5 (19)	5.0 (1)	88 (11)	1 (1)	39 (10)
12Y2175	MPQ	9850 (7)	22.4 (12)	5.0 (1)	96 (35)	1 (1)	40 (23)
M208	MB	9780 (8)	19.8 (28)	5.0 (1)	92 (26)	1 (1)	40 (12)
13Y3158	M	9710 (9)	19.3 (30)	5.0 (1)	92 (28)	1 (1)	39 (8)
10Y3737	M	9630 (10)	22.3 (14)	5.0 (1)	92 (28)	1 (1)	39 (10)
13Y1059	L	9560 (11)	18.9 (31)	5.0 (1)	88 (12)	1 (1)	41 (28)
13Y3181	M	9410 (12)	20.7 (24)	5.0 (1)	91 (23)	1 (1)	41 (28)
13Y1132	LJ	9370 (13)	18.4 (33)	5.0 (1)	91 (23)	1 (1)	40 (12)
13P358	LJ	9220 (14)	21.4 (20)	5.0 (1)	93 (33)	1 (1)	41 (24)
A201	LA	9190 (15)	17.7 (35)	5.0 (1)	83 (3)	50 (28)	41 (27)
12Y2107	SWX	9180 (16)	24.2 (7)	5.0 (1)	87 (8)	73 (31)	41 (24)
11Y3655	M	9170 (17)	22.7 (11)	5.0 (1)	91 (23)	1 (1)	38 (4)
13Y3156	M	9040 (18)	22.4 (13)	5.0 (1)	95 (34)	1 (1)	37 (1)
A202	LA	9020 (19)	21.0 (23)	5.0 (1)	87 (10)	1 (1)	40 (20)
11Y2182	MPQ	8990 (20)	25.4 (5)	5.0 (1)	99 (37)	1 (1)	40 (20)
13Y3193	M	8700 (21)	23.1 (9)	5.0 (1)	98 (36)	1 (1)	38 (2)
M105	M	8590 (22)	21.2 (21)	5.0 (1)	82 (2)	50 (28)	42 (30)
13P296	LJ	8500 (23)	18.4 (32)	5.0 (1)	87 (8)	1 (1)	45 (38)
M402	MPQ	8290 (24)	25.7 (4)	5.0 (1)	101 (38)	1 (1)	40 (12)
11Y2160	SWX	8270 (25)	22.3 (15)	5.0 (1)	84 (5)	99 (33)	39 (9)
10Y3703	M	8270 (26)	24.4 (6)	5.0 (1)	92 (28)	46 (27)	42 (32)
10Y2043	S	8210 (27)	22.3 (16)	5.0 (1)	83 (3)	99 (33)	41 (24)
11Y2230	SPQ	7830 (28)	27.7 (1)	5.0 (1)	92 (28)	95 (32)	40 (17)
13Y1117	LA	7620 (29)	16.1 (39)	5.0 (1)	89 (15)	1 (1)	40 (20)
13Y3224	MPQ	7510 (30)	23.8 (8)	5.0 (1)	90 (18)	99 (33)	42 (30)
13Y3223	MPQ	7170 (31)	26.4 (3)	5.0 (1)	89 (15)	99 (33)	43 (34)
09Y2122	S	7130 (32)	21.9 (18)	5.0 (1)	82 (1)	99 (33)	44 (37)
12Y1178	LJ	7120 (33)	20.5 (26)	5.0 (1)	89 (15)	1 (1)	42 (32)
CA201	SLA	6940 (34)	19.4 (29)	5.0 (1)	84 (6)	99 (33)	40 (17)
11Y106	LJ	6430 (35)	17.5 (37)	5.0 (1)	85 (7)	6 (24)	43 (34)
12Y133	LJ	6320 (36)	20.6 (25)	5.0 (1)	102 (39)	1 (1)	38 (2)
M203	MPQ	6030 (37)	27.1 (2)	5.0 (1)	90 (18)	99 (33)	48 (39)
CT202	LB	5460 (38)	16.8 (38)	5.0 (1)	90 (18)	15 (26)	39 (6)
12Y1054	LB	5160 (39)	20.3 (27)	5.0 (1)	90 (18)	11 (25)	40 (12)
MEAN		8510	21.4	5.0	90	28	41
CV		5.6	5.2		4.1	79.3	3.6
LSD (.05)		970	2.3		8	46	3

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic;

MB=medium blast resistant; SLA= short low amalose; 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.

Table 14. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2010-2014)

Location	Year	Calhikari					Calmati		
		201	S-102	M-202	M-105	M-205	M-206	202	L-206
Biggs (RES)	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
	2013	8490	8640	7640	7820	9230	8160	5700	8420
	2014	6220	7320	7010	8570	9140	9240	6310	8640
Location Mean		8398	9018	8858	9532	10060	9684	6828	9736
Butte	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
	2013	7840	8650	7870	9640	8960	9020	6450	9390
	2014	8310	8570	8360	9070	9140	9610	7210	9730
Location Mean		8038	8210	8250	9200	8902	8966	7272	9246
Colusa	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
	2013	7840	7220	9140	9750	8930	9660	5970	10250
	2014	7740	8080	8720	9100	9370	9280	6150	9380
Location Mean		7712	8074	9350	9196	9676	9828	5472	9826
Yuba	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
	2013	8040	9280	8950	9330	9650	9750	5750	9590
	2014	7290	7420	8010	8590	9120	8950	5460	9260
Location Mean		7512	8684	9140	9254	9396	9692	5656	9436
Loc/Years Mean		7915	8497	8900	9296	9509	9543	6307	9561
Yield % M-202		88.9	95.5	100	104.4	106.8	107.2	70.9	107.4
Number of Tests		20	20	20	20	20	20	20	20

Table 15. 2014 Two Location Intermediate/Late Rice Variety Trials*

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain	Single Location Yields		Ave Grain	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield at 14% Moisture lbs/acre	Biggs	Glenn	Moisture at Harvest (%)				
11Y2183	MPQ	10350 (1)	10990 (3)	9720 (1)	17.1 (3)	4.7 (8)	91 (10)	1 (1)	40 (6)
13Y3212	MB	10180 (2)	11210 (2)	9140 (2)	16.9 (4)	4.8 (5)	85 (5)	14 (9)	40 (7)
11Y1005	L	9970 (3)	10990 (4)	8950 (3)	14.2 (10)	4.9 (3)	83 (4)	3 (5)	40 (8)
08Y3269	M	9940 (4)	11270 (1)	8610 (8)	16.4 (6)	4.7 (9)	88 (8)	1 (1)	41 (11)
M205	M	9730 (5)	10550 (6)	8910 (5)	17.4 (2)	4.6 (11)	90 (9)	1 (1)	39 (5)
L206	L	9600 (6)	10340 (7)	8870 (6)	14.7 (9)	4.8 (6)	81 (1)	10 (6)	36 (1)
M402	MPQ	9480 (7)	10040 (8)	8910 (4)	17.8 (1)	4.9 (3)	103 (11)	2 (4)	41 (10)
M206	M	9420 (8)	10570 (5)	8270 (11)	15.9 (7)	4.8 (6)	83 (3)	12 (8)	39 (4)
CH202	SPQ	8830 (9)	9050 (9)	8620 (7)	15.6 (8)	4.6 (10)	82 (2)	64 (11)	36 (2)
M202	M	8690 (10)	8870 (10)	8510 (9)	16.7 (5)	5 (1)	87 (7)	11 (7)	41 (9)
CH201	SPQ	8510 (11)	8560 (11)	8460 (10)	13.6 (11)	5 (1)	86 (6)	49 (10)	37 (3)
MEAN		9520	10220	8820	16	4.8	87	15	39
CV		4.9	4.9	5.0	5.1	4	1.4	112.8	4.2
LSD (.05)		470	720	630	0.8	0.2	1	17	2

Preliminary Lines and Varieties

12Y1022	LA	10050 (1)	10640 (2)	9460 (5)	14.2 (17)	4.9 (7)	86 (8)	1 (1)	40 (11)
13P266	LJ	9990 (2)	10090 (7)	9890 (2)	13.0 (21)	4.5 (21)	86 (11)	17 (14)	37 (3)
M208	MB	9850 (3)	10600 (3)	9100 (8)	15.1 (11)	4.7 (12)	86 (11)	3 (6)	40 (13)
12Y1176	L	9790 (4)	10460 (4)	9120 (7)	14.4 (16)	4.8 (10)	85 (5)	11 (13)	42 (21)
M401	MPQ	9730 (5)	9550 (12)	9900 (1)	22.1 (1)	4.9 (6)	108 (24)	21 (15)	43 (22)
11Y2182	MPQ	9710 (6)	10780 (1)	8650 (12)	17.2 (2)	4.3 (23)	92 (22)	6 (10)	41 (15)
09Y2141	SWX	9540 (7)	10260 (5)	8810 (10)	14.5 (14)	4.6 (18)	80 (2)	8 (11)	39 (8)
A202	LA	9490 (8)	10210 (6)	8760 (11)	14.5 (15)	5.0 (2)	85 (7)	8 (11)	40 (12)
12Y135	LJ	9250 (9)	8770 (14)	9740 (3)	15.0 (12)	5.0 (2)	92 (21)	5 (9)	38 (4)
12Y2178	SPQ	9080 (10)	9590 (11)	8570 (13)	14.6 (13)	4.7 (12)	93 (23)	23 (16)	38 (5)
11Y106	LJ	9070 (11)	9720 (9)	8420 (14)	14.1 (18)	4.7 (11)	88 (17)	43 (22)	43 (23)
13P277	LJ	9040 (12)	8490 (15)	9590 (4)	12.4 (24)	5.0 (1)	86 (9)	1 (1)	39 (7)
13Y3219	MB	8980 (13)	9900 (8)	8070 (16)	16.3 (4)	4.6 (19)	84 (4)	1 (1)	41 (17)
13Y1178	LJ	8700 (14)	8060 (19)	9330 (6)	12.8 (23)	4.6 (16)	86 (9)	3 (6)	39 (9)
M105	M	8510 (15)	9650 (10)	7370 (19)	16.0 (7)	3.7 (25)	81 (3)	35 (18)	40 (14)
13Y3224	MPQ	8510 (16)	7990 (20)	9030 (9)	16.1 (6)	3.8 (24)	86 (11)	40 (19)	41 (18)
13Y3220	MPQ	8390 (17)	8800 (13)	7980 (17)	15.5 (10)	4.8 (9)	87 (16)	43 (21)	40 (10)
13Y3223	MPQ	8090 (18)	8060 (18)	8120 (15)	15.9 (8)	4.3 (22)	87 (15)	51 (23)	41 (16)
M203	MPQ	8040 (19)	8280 (16)	7810 (18)	15.9 (9)	5.0 (2)	86 (11)	55 (24)	45 (25)
CM101	SWX	7370 (20)	8180 (17)	6570 (20)	12.1 (25)	4.7 (12)	78 (1)	40 (20)	38 (6)
13Y135	LB	6910 (21)	7330 (22)	6490 (21)	12.9 (22)	4.6 (16)	90 (19)	1 (1)	37 (2)
13Y1055	LB	6670 (22)	7590 (21)	5760 (23)	13.3 (20)	4.5 (20)	85 (5)	1 (1)	37 (1)
13P477	LB	6200 (23)	6600 (23)	5810 (22)	14.1 (19)	4.9 (7)	88 (17)	33 (17)	42 (20)
13P454	LB	5680 (24)	6200 (24)	5160 (25)	16.6 (3)	5.0 (2)	91 (20)	3 (6)	41 (19)
KOSH	SPQ	5610 (25)	5550 (25)	5660 (24)	16.2 (5)	4.7 (15)	113 (25)	95 (25)	45 (24)
MEAN		8490	8850	8130	15.0	4.6	88	22	40
CV		5.4	5.4	5.5	5.6	7.8	1.8	71.3	3.8
LSD (.05)		660	980	930	1.2	0.5	2	22	2

S=short; M=medium; L=long; PQ=premium quality; WX=waxy; A=aromatic; LB=long Basmati; J=Jasmine; MB=medium blast resistant.

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

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

Numbers in parentheses indicate relative rank in column.

* The Sutter trial was not included in this summary due to an unusually high yield cv and low yields.

Table 16. 2014 Biggs Intermediate-Late Rice Variety Trials

<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	11270 (1)	16.2 (6)	4.9 (4)	86 (8)	1 (1)	39 (11)
13Y3212	MB	11210 (2)	16.6 (4)	4.9 (4)	81 (5)	1 (1)	39 (10)
11Y2183	MPQ	10990 (3)	16.8 (3)	4.9 (4)	88 (10)	1 (1)	37 (5)
11Y1005	L	10990 (4)	13.5 (10)	4.9 (10)	79 (3)	1 (1)	37 (6)
M206	M	10570 (5)	16.5 (5)	4.9 (4)	79 (3)	23 (9)	38 (7)
M205	M	10550 (6)	16.9 (2)	4.9 (4)	87 (9)	1 (1)	36 (3)
L206	L	10340 (7)	14.3 (9)	4.9 (11)	78 (1)	1 (1)	36 (4)
M402	MPQ	10040 (8)	17.7 (1)	5.0 (1)	101 (11)	1 (1)	39 (9)
CH202	SPQ	9050 (9)	15.7 (8)	4.9 (9)	79 (2)	90 (11)	34 (1)
M202	M	8870 (10)	16.0 (7)	5.0 (2)	85 (7)	1 (1)	38 (8)
CH201	SPQ	8560 (11)	11.6 (11)	5.0 (2)	82 (6)	70 (10)	35 (2)
MEAN		10220	15.6	4.9	84	17	37
CV		4.9	6.1	1.3	1.7	72.9	3.6
LSD (.05)		720	1.4		2	18	2
<i>Preliminary Lines and Varieties</i>							
11Y2182	MPQ	10780 (1)	16.4 (4)	4.9 (21)	89 (20)	1 (1)	39 (16)
12Y1022	LA	10640 (2)	13.6 (18)	4.9 (4)	81 (5)	1 (1)	38 (12)
M208	MB	10600 (3)	15.3 (10)	4.9 (4)	84 (12)	1 (1)	38 (14)
12Y1176	L	10460 (4)	14.0 (15)	4.9 (21)	80 (4)	1 (1)	40 (23)
09Y2141	SWX	10260 (5)	12.0 (24)	5.0 (2)	75 (2)	6 (17)	37 (8)
A202	LA	10210 (6)	14.2 (13)	4.9 (4)	83 (11)	1 (1)	39 (18)
13P266	LJ	10090 (7)	12.6 (22)	4.9 (4)	81 (8)	1 (1)	36 (3)
13Y3219	MB	9900 (8)	16.5 (3)	4.9 (4)	81 (6)	1 (1)	38 (13)
11Y106	LJ	9720 (9)	13.9 (16)	4.9 (21)	85 (16)	1 (1)	40 (22)
M105	M	9650 (10)	15.5 (9)	4.9 (4)	76 (3)	40 (22)	39 (18)
12Y2178	SPQ	9590 (11)	14.2 (14)	4.9 (4)	91 (23)	45 (23)	35 (2)
M401	MPQ	9550 (12)	21.1 (1)	5.0 (2)	106 (24)	1 (1)	39 (21)
13Y3220	MPQ	8800 (13)	16.0 (6)	4.9 (4)	86 (17)	11 (19)	37 (11)
12Y135	LJ	8770 (14)	14.3 (12)	4.9 (4)	89 (22)	1 (1)	36 (5)
13P277	LJ	8490 (15)	12.5 (23)	5.0 (1)	82 (9)	1 (1)	39 (17)
M203	MPQ	8280 (16)	15.5 (8)	4.9 (4)	85 (15)	15 (21)	44 (24)
CM101	SWX	8180 (17)	9.1 (25)	4.9 (4)	74 (1)	75 (24)	36 (7)
13Y3223	MPQ	8060 (18)	16.2 (5)	4.9 (4)	84 (13)	13 (20)	38 (15)
13Y1178	LJ	8060 (19)	12.8 (20)	4.9 (21)	81 (6)	1 (1)	37 (9)
13Y3224	MPQ	7990 (20)	16.6 (2)	4.9 (4)	84 (13)	10 (18)	39 (18)
13Y1055	LB	7590 (21)	12.8 (19)	4.9 (4)	82 (9)	1 (1)	35 (1)
13Y135	LB	7330 (22)	12.6 (21)	4.9 (4)	86 (19)	1 (1)	36 (3)
13P477	LB	6600 (23)	13.6 (17)	4.9 (21)	86 (17)	1 (1)	37 (10)
13P454	LB	6200 (24)	15.1 (11)	4.9 (4)	89 (21)	1 (1)	36 (5)
KOSH	SPQ	5550 (25)	15.6 (7)	4.9 (4)	124 (25)	90 (25)	45 (25)
MEAN		8850	14.5	4.9	85	13	38
CV		5.4	4.8	0.8	2.4	110.4	3.9
LSD (.05)		980	1.4		4	29	3

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

J=Jasmine; MB=medium blast resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 17. 2014 Glenn Intermediate-Late Rice Variety Trials

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
11Y2183	MPQ	9720 (1)	17.4 (4)	4.5 (8)	94 (10)	1 (1)	43 (9)
13Y3212	MB	9140 (2)	17.1 (5)	4.7 (6)	89 (5)	28 (9)	41 (5)
11Y1005	L	8950 (3)	14.8 (11)	5.0 (1)	87 (4)	6 (6)	44 (11)
M402	MPQ	8910 (4)	18.0 (1)	4.9 (4)	106 (11)	3 (5)	43 (7)
M205	M	8910 (5)	17.9 (2)	4.3 (11)	93 (9)	1 (1)	43 (7)
L206	L	8870 (6)	15.1 (10)	4.7 (5)	85 (1)	18 (7)	36 (1)
CH202	SPQ	8620 (7)	15.6 (8)	4.3 (10)	86 (2)	38 (11)	38 (3)
08Y3269	M	8610 (8)	16.7 (6)	4.5 (9)	91 (8)	1 (1)	43 (9)
M202	M	8510 (9)	17.4 (3)	5.0 (1)	89 (5)	21 (8)	43 (6)
CH201	SPQ	8460 (10)	15.7 (7)	5.0 (1)	89 (7)	28 (9)	38 (2)
M206	M	8270 (11)	15.3 (9)	4.7 (7)	87 (3)	1 (1)	40 (4)
MEAN		8820	16.4	4.7	90	13	41
CV		5.0	4.1	5.6	1	157.9	4.7
LSD (.05)		630	1	0.4	1		3
<i>Preliminary Lines and Varieties</i>							
M401	MPQ	9900 (1)	23.1 (1)	4.9 (6)	110 (25)	40 (18)	46 (21)
13P266	LJ	9890 (2)	13.4 (22)	4.1 (21)	91 (17)	33 (17)	39 (4)
12Y135	LJ	9740 (3)	15.7 (9)	5.0 (1)	94 (21)	8 (11)	39 (4)
13P277	LJ	9590 (4)	12.3 (25)	5.0 (1)	90 (13)	1 (1)	39 (3)
12Y1022	LA	9460 (5)	14.7 (18)	4.8 (8)	90 (14)	1 (1)	42 (12)
13Y1178	LJ	9330 (6)	12.8 (24)	4.4 (15)	91 (15)	6 (7)	42 (11)
12Y1176	L	9120 (7)	14.8 (16)	4.7 (10)	89 (10)	20 (15)	44 (19)
M208	MB	9100 (8)	14.9 (15)	4.5 (12)	89 (10)	6 (7)	43 (14)
13Y3224	MPQ	9030 (9)	15.6 (11)	2.8 (24)	89 (9)	70 (20)	43 (16)
09Y2141	SWX	8810 (10)	17.1 (4)	4.3 (18)	86 (2)	11 (13)	42 (10)
A202	LA	8760 (11)	14.8 (17)	5.0 (1)	88 (6)	15 (14)	41 (8)
11Y2182	MPQ	8650 (12)	18.1 (3)	3.7 (23)	96 (23)	10 (12)	43 (14)
12Y2178	SPQ	8570 (13)	15.1 (13)	4.5 (12)	95 (22)	1 (1)	40 (6)
11Y106	LJ	8420 (14)	14.3 (20)	4.6 (11)	91 (17)	85 (22)	46 (22)
13Y3223	MPQ	8120 (15)	15.7 (10)	3.8 (22)	89 (10)	90 (23)	43 (16)
13Y3219	MB	8070 (16)	16.1 (8)	4.2 (19)	87 (3)	1 (1)	44 (18)
13Y3220	MPQ	7980 (17)	15.0 (14)	4.7 (9)	88 (6)	75 (21)	42 (12)
M203	MPQ	7810 (18)	16.3 (7)	5.0 (1)	88 (6)	95 (24)	47 (25)
M105	M	7370 (19)	16.6 (6)	2.5 (25)	87 (3)	30 (16)	42 (9)
CM101	SWX	6570 (20)	15.1 (12)	4.5 (12)	83 (1)	6 (7)	41 (7)
13Y135	LB	6490 (21)	13.2 (23)	4.4 (17)	93 (19)	1 (1)	38 (1)
13P477	LB	5810 (22)	14.5 (19)	4.9 (7)	91 (15)	65 (19)	47 (23)
13Y1055	LB	5760 (23)	13.9 (21)	4.2 (20)	87 (3)	1 (1)	38 (1)
KOSH	SPQ	5660 (24)	16.8 (5)	4.4 (15)	101 (24)	99 (25)	45 (20)
13P454	LB	5160 (25)	18.2 (2)	5.0 (1)	93 (19)	6 (7)	47 (24)
MEAN		8130	15.5	4.4	91	31	43
CV		5.5	6.3	11.7	1.1	54.6	3.7
LSD (.05)		930	2	1.1	2	35	3

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

J=Jasmine; MB=medium blast resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 18. 2014 Sutter Intermediate-Late Rice Variety Trials

<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	10010 (1)	17.5 (4)	5.0 (1)	89 (8)	99 (1)	44 (7)
L206	L	9660 (2)	12.3 (10)	5.0 (1)	82 (2)	99 (1)	42 (3)
M206	M	9270 (3)	21.6 (1)	5.0 (1)	82 (2)	99 (1)	43 (4)
M202	M	9030 (4)	17.8 (3)	5.0 (1)	88 (7)	99 (1)	45 (11)
11Y2183	MPQ	9010 (5)	16.4 (8)	5.0 (1)	95 (10)	99 (1)	43 (5)
11Y1005	L	8830 (6)	16.4 (7)	5.0 (1)	82 (4)	99 (1)	45 (10)
M205	M	8680 (7)	18.3 (2)	5.0 (1)	91 (9)	99 (1)	43 (6)
13Y3212	MB	8310 (8)	17.0 (5)	5.0 (1)	83 (5)	99 (1)	44 (7)
CH201	SPQ	7520 (9)	15.1 (9)	5.0 (1)	85 (6)	99 (1)	41 (2)
CH202	SPQ	7140 (10)	16.5 (6)	5.0 (1)	79 (1)	99 (1)	39 (1)
M402	MPQ	7020 (11)	9.7 (11)	5.0 (1)	101 (11)	99 (1)	45 (9)
MEAN		8590	16.2	5.0	87	99	43
CV		10.9	8		0.8		3.7
LSD (.05)		1350	1.9		1		2
<i>Preliminary Lines and Varieties</i>							
11Y2182	MPQ	9800 (1)	20.3 (8)	5.0 (1)	95 (21)	99 (10)	44 (6)
13P266	LJ	9670 (2)	13.4 (23)	3.8 (25)	90 (19)	85 (4)	43 (4)
09Y2141	SWX	9650 (3)	21.2 (5)	5.0 (1)	78 (2)	99 (10)	44 (7)
A202	LA	9550 (4)	19.5 (11)	5.0 (1)	87 (12)	99 (10)	44 (7)
13P277	LJ	9500 (5)	12.5 (24)	5.0 (1)	89 (18)	99 (10)	45 (13)
12Y1176	L	9480 (6)	20.6 (6)	5.0 (1)	87 (13)	90 (5)	46 (16)
12Y1022	LA	8710 (7)	19.0 (13)	5.0 (1)	88 (15)	99 (10)	46 (19)
13Y1178	LJ	8380 (8)	14.2 (22)	5.0 (1)	88 (16)	90 (6)	45 (10)
M208	MB	7890 (9)	19.3 (12)	5.0 (1)	85 (10)	99 (10)	46 (16)
M105	M	7890 (10)	25.7 (2)	5.0 (1)	79 (3)	99 (10)	42 (3)
13Y3219	MB	7850 (11)	21.6 (4)	5.0 (1)	83 (5)	99 (10)	45 (14)
12Y2178	SPQ	7830 (12)	14.6 (21)	4.4 (24)	87 (13)	99 (10)	41 (1)
12Y135	LJ	7770 (13)	22.5 (3)	5.0 (1)	96 (23)	99 (10)	45 (10)
13Y135	LB	7750 (14)	18.5 (14)	5.0 (1)	92 (20)	65 (3)	43 (5)
13Y1055	LB	7720 (15)	16.8 (17)	4.9 (23)	81 (4)	60 (2)	45 (12)
13Y3220	MPQ	6660 (16)	17.2 (16)	5.0 (1)	84 (8)	99 (10)	46 (18)
13Y3224	MPQ	6440 (17)	20.0 (9)	5.0 (1)	83 (5)	99 (10)	44 (7)
CM101	SWX	6180 (18)	16.4 (18)	5.0 (1)	77 (1)	99 (10)	41 (2)
M203	MPQ	5990 (19)	20.3 (7)	5.0 (1)	86 (11)	97 (9)	47 (21)
13Y3223	MPQ	5910 (20)	17.6 (15)	5.0 (1)	83 (5)	99 (10)	47 (20)
M401	MPQ	5530 (21)	11.6 (25)	5.0 (1)	106 (25)	99 (10)	49 (23)
11Y106	LJ	5360 (22)	15.9 (20)	5.0 (1)	84 (8)	95 (8)	46 (15)
13P477	LB	3950 (23)	19.6 (10)	5.0 (1)	88 (16)	90 (6)	51 (24)
KOSH	SPQ	3690 (24)	16.4 (19)	5.0 (1)	95 (21)	99 (10)	47 (21)
13P454	LB	2750 (25)	29.3 (1)	5.0 (1)	103 (24)	25 (1)	52 (25)
MEAN		7280	18.6	4.9	88	91	45
CV		11.4	7.6	3.5	0.9	9.4	5
LSD (.05)		1720	2.9	0.4	2	18	5

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

J=Jasmine; MB=medium blast resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 19. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/
Late Rice Varieties by Location and Year (2010-2014)

Location	Year	M-205	M-402	M-202	L-206
Biggs (RES)	2010	11030	8240	10430	11610
	2011	10270	9200	9160	9990
	2012	11210	10260	11090	11180
	2013	9730	9830	8700	9460
	2014	10550	10040	8870	10340
Location Mean		10558	9514	9650	10516
Glenn	2010	9210	9360	7970	8340
	2011	9550	9820	9030	8900
	2012	8220	8260	7660	7680
	2013	8400	8970	8270	8870
	2014	8910	8910	8510	8870
Location Mean		8858	9064	8288	8532
Sutter	2010	9190	9300	10500	9390
	2011	9310	8000	9010	9780
	2012	9630	9040	9690	9890
	2013	8540	6900	7890	8720
	2014	8680	7020	9030	9660
Location Mean		9070	8052	9224	9488
Loc/Years Mean		9495	8877	9054	9512
Yield % M-202		104.9	98.0	100	107.2
Number of Tests		15	15	15	15