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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2015 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 2015. 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 an 11% decrease in acres planted (385,000 acres) and harvested (380,000 acres) compared to 2014. The estimated statewide yield was 8,890 lbs/ac, the 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

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

	Date Planted	Date Harvested
• Butte County (RES)	05/11	09/19
• Sutter County (Lauppe)	05/05	09/24
• Yolo County (Webster)	05/08	09/30
• San Joaquin (Del Rio Partners)	04/29 (drill-seeded)	10/13

Commercial varieties included CM101, CM203, CH201, CH202, S102, M104, M205, M206, M208, M209, and L206. Thirty experimental lines and four commercial varieties (A202, CA201, M105, and M202) 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

Ten 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)	05/11	09/22
• Butte County (Larrabee)	04/27	09/15
• Colusa County (Dennis)	05/11	10/03
• Yuba County (Matthews)	05/09	10/12

The advanced test included commercial varieties CM101, CM203, CH201, CH202, S102, M205, M206, M208, M209, and L206. Thirty preliminary lines and six commercial varieties (CT202, A202, A301, M105, M202, and M402) 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

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

	Date Planted	Date Harvested
• Butte County (RES)	05/13	09/30
• Glenn County (Wiley)	05/08	10/21
• Sutter County (Tucker)	05/06	09/28

Advanced commercial varieties included CH201, CH202, M205, M206, M208, M209, M402, and L206. Seven commercial varieties (Koshihikari, CM101, CM203, M105, M202, M401, and A202) and eight experimental lines 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 140 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

(≤ 80 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 (2011-2015) is presented in Table 8.

Grain yields in the advanced tests averaged 8,900 lbs/ac overall, 9,290 lbs/ac at Biggs-RES, 9,810 lbs/ac at Sutter, 7,670 lbs/ac at Yolo and 8,840 lbs/ac at San Joaquin (Tables 3-7). Over all

locations, the three highest yielding entries on average were advanced short grain line 10Y2043, CM203, and advanced long grain 12Y20 (10,070, 9,960, and 9,390 lbs/ac respectively). Top yielding commercial varieties M209, M206, M104, and M205 ranked fifth, sixth, ninth, and tenth respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 9,620 to 5,950 lbs/ac (Table 3).

The three highest yielding advanced trial entries at the cooler San Joaquin site were M206, CM203, and M104 (9,970, 9,770, and 9,650 lbs/ac). The medium-grain 12Y113 was the highest yielding preliminary line cultivar (9,400 lbs/ac) in the San Joaquin trial.

Average grain moisture at harvest and the number of days to 50% heading increased slightly and % lodging decreased 40% in 2015 as compared to 2014. Seedling vigor and plant height were essentially the same as in 2014.

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 M104, the very early standard. An average of the very early tests, over the last 5 years, shows that M206, L206, M202, S102, and CM101 yielded 102%, 97%, 95%, 93%, and 85% (respectively) of the standard variety M104. Over the 5-year period and across locations, M206 was the highest yielding variety at 9,420 lbs/ac followed by L206 and M202 at 8,960 lbs/ac, and 8,730 lbs/ac respectively (Table 8).

SUMMARY OF THE EARLY RICE VARIETY TESTS

(81-90 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 (2011-2015) is found in Table 14.

Yields in the advanced line tests averaged 9,620 lbs/ac overall, 9,660 lbs/ac at the RES, 8,780 lbs/ac at Butte, 10,210 lbs/ac at Colusa and 9,830 lbs/ac at Yuba (Tables 9-13). The three highest yielding advanced test entries were the short grain line 10Y2043, long grain line 14Y1006, and CM203 (11,330, 11,170, and 10,380 lbs/ac respectively) when averaged over four locations in 2015 (Table 9). The yield of commercial varieties L206, M209, M206, and M208, ranked eighth, ninth, tenth, and thirteenth over all locations (Table 9).

Average days to 50% heading ranged from 79 days at Biggs to 86 days at the Colusa County site. The commercial standard M206 headed at 77 days at Biggs and 83 days at Colusa and Yuba. The average yield of M105 increased 8.2% compared to 2014. Thirteen experimental lines averaged significantly higher yields than M105 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 M202, the early standard. An average of the early tests, over the last 5 years, shows that L206, M206, M205, M105, and S102 yielded 110%, 109%, 107%, 105%, and 97% (respectively) of the standard variety M202. L206 was the highest yielding commercial variety (9,560 lbs/ac) followed by M206 (9,470 lbs/ac).

SUMMARY OF THE INTERMEDIATE-LATE RICE VARIETY TESTS (*> 90 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 low yields and an exceptionally 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 (2011-2015) is found in Table 19.

Average yields in the advanced tests were 9,390 lbs/ac overall, 9,260 lbs/ac at the RES and 9,530 lbs/ac at Glenn (Tables 15-17). The 2015 advanced over location average yield was 130 lbs/ac (2.4%) less than the 2014 average. The average yield at the RES decreased 960 lbs/ac and increased 710 lbs/ac at Glenn compared to the 2014 season. The advanced long grain entry 12Y20 was the highest yielding entry overall (10,140 lbs/ac). M209 was the highest yielding commercial variety (9,790 lbs/ac), ranking fourth overall. L206 and M206 were the next highest yielding commercial varieties across locations, ranking fifth and sixth respectively (Table 15).

Average days to 50% heading decreased five days and lodging decreased 7% compared to 2014. At 107 days, M401 required 5 more days than M402 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 in 2014.

Averaged over the last 5 years and across locations, L206 (9,490 lbs/ac) is the highest yielding commercial variety. M205 and M402 yielded 106% and 99%, respectively, of the yield of the standard variety M202 on average over the last 5 years (Table 19).

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Table 1. Characteristics of Public California Rice Varieties-2016

CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2016					
Grain Type	Maturity	Year Seed Widely Available	Stem Rot Score ¹	Seedling Vigor ²	Comments
Short Grain					
S102 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					
M104 ^{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.
M105 ^{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.
M205 ^{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.
M206 ^{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.
M208 ^{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.
M209 ^{6,7}	Early	2015	4.9	4.9	Very high yield potential. Heads 5-6 days later than M-206. Has improved stem rot and aggregate sheath spot compared to M-206 and M-208. Judged to be superior in grain quality. Production practices comparable to M-206. Avoid late planting and cool production areas to reduce blanking.
Long Grains					
L206 ^{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					
M401	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.
M402 ^{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	5.0	<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.
Calhikari-202 ^{5,6,7}	Early	2012	4.8	4.8	<i>Premium quality</i> short grain developed for the Japanese premium short-grain market. Similar to CH-201 in most characteristics but has higher grain and head rice yields and improved milling quality. Not recommended for cold locations. Cold temperatures delay 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.
Calmochi-203 ^{5,6,7}	Early ⁴	2015	5.3	4.9	Glutinous (sweet, waxy) rice. Less blanking resistance than CA-101. Has glabrous (smooth) hulls. shape. Yields significantly higher, has larger seed and matures later than CA-101. Not adapted to cool temperature areas.
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.
A202 ^{6,7}	Early ⁴	2014	4.6	4.7	An aromatic smooth hulled long grain with very high yield potential and high head rice yield. Improved seedling vigor and similar lodging compared to A-301. Susceptible to blanking and should not be grown in cool areas. Is a replacement for A-301 and is well adapted for organic production systems.
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 3. 2015 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							
10Y2043	S	10070 (1)	10790 (1)	11120 (2)	9260 (1)	9100 (9)	19.4 (8)	4.8 (15)	88 (7)	28 (16)	35 (5)		
CM203	SWX	9960 (2)	10610 (2)	11130 (1)	8340 (3)	9770 (2)	20.5 (1)	5.0 (3)	87 (6)	23 (13)	38 (17)		
12Y20	L	9390 (3)	9740 (4)	10880 (3)	8670 (2)	8260 (13)	18.1 (11)	5.0 (6)	91 (15)	1 (1)	37 (16)		
11Y2022	MPQ	9320 (4)	9960 (3)	10320 (5)	7600 (10)	9390 (6)	19.6 (5)	4.9 (14)	89 (10)	1 (1)	37 (11)		
M209	M	9220 (5)	9460 (8)	10490 (4)	7700 (9)	9210 (8)	19.9 (4)	5.0 (6)	91 (16)	2 (6)	36 (7)		
M206	M	9180 (6)	9350 (10)	9900 (9)	7490 (12)	9970 (1)	19.5 (6)	5.0 (6)	87 (4)	4 (8)	37 (13)		
12Y113	MB	9150 (7)	9590 (5)	10030 (7)	7570 (11)	9400 (4)	20.0 (3)	5.0 (6)	89 (11)	11 (11)	37 (15)		
12Y3097	MB	9000 (8)	9470 (7)	9970 (8)	7170 (13)	9390 (5)	19.4 (7)	4.8 (16)	87 (5)	3 (7)	36 (10)		
M104	M	8970 (9)	8580 (14)	9520 (12)	8150 (5)	9650 (3)	18.0 (12)	5.0 (3)	82 (1)	8 (10)	35 (6)		
M205	M	8820 (10)	9400 (9)	9790 (11)	7870 (7)	8210 (14)	20.2 (2)	5.0 (12)	93 (17)	1 (1)	34 (2)		
M208	MB	8780 (11)	9090 (11)	10200 (6)	8050 (6)	7790 (16)	18.5 (10)	5.0 (3)	90 (13)	6 (9)	37 (14)		
S102	S	8720 (12)	9520 (6)	9190 (14)	6940 (16)	9240 (7)	16.3 (17)	5.0 (12)	84 (2)	25 (15)	36 (8)		
L206	L	8720 (13)	8910 (12)	9820 (10)	7740 (8)	8400 (12)	17.4 (15)	5.0 (6)	88 (8)	1 (1)	33 (1)		
11Y1005	L	8420 (14)	8870 (13)	9370 (13)	8150 (4)	7290 (17)	17.8 (14)	5.0 (2)	90 (14)	1 (1)	37 (12)		
CH201	SPQ	8190 (15)	8560 (15)	8510 (15)	7150 (14)	8540 (11)	17.9 (13)	5.0 (1)	90 (12)	24 (14)	34 (3)		
CH202	SPQ	7900 (16)	8180 (16)	8470 (16)	7060 (15)	7890 (15)	19.1 (9)	4.6 (17)	88 (9)	45 (17)	34 (4)		
CM101	SWX	7560 (17)	7940 (17)	7990 (17)	5560 (17)	8750 (10)	17.4 (16)	5.0 (6)	86 (3)	22 (12)	36 (9)		
MEAN		8900	9290	9810	7670	8840	18.8	4.9	88	12	36		
CV		5.1	5.8	4.3	5.1	5.1	5.1	1.7	1.2	104.7	3.9		
LSD (.05)		320	760	590	560	640	0.7	0.1	1	9	1		

Preliminary Lines and Varieties

14Y1006	L	9620 (1)	10290 (2)	11340 (1)	8660 (2)	8170 (28)	16.9 (29)	4.9 (20)	88 (12)	1 (1)	36 (12)
14Y2007	S	9550 (2)	9000 (10)	10970 (2)	8630 (3)	9590 (4)	19.3 (5)	4.6 (33)	88 (14)	3 (25)	36 (13)
13Y2031	SPQ	9400 (3)	10030 (4)	10540 (5)	8590 (4)	8450 (25)	18.4 (16)	4.9 (17)	87 (9)	40 (34)	37 (27)
14Y2039	SWX	9350 (4)	10440 (1)	10190 (14)	7450 (22)	9320 (6)	18.1 (20)	4.9 (20)	92 (29)	10 (31)	37 (31)
14Y1066	L	9210 (5)	8990 (12)	10300 (12)	8800 (1)	8760 (19)	18.0 (21)	4.9 (22)	93 (31)	1 (1)	36 (14)
14Y1104	S	9170 (6)	9120 (9)	10870 (3)	8080 (8)	8600 (21)	17.1 (28)	5.0 (2)	93 (32)	1 (1)	37 (27)
14Y3126	M	9140 (7)	9880 (5)	10450 (7)	7090 (30)	9140 (10)	18.6 (10)	5.0 (2)	88 (14)	1 (1)	37 (22)
14Y3094	M	9140 (8)	8910 (14)	10220 (13)	8450 (5)	8960 (15)	18.3 (17)	4.9 (28)	90 (21)	7 (30)	36 (16)
14Y3055	MB	9120 (9)	8730 (17)	10330 (11)	7700 (15)	9700 (2)	16.5 (33)	5.0 (2)	85 (2)	1 (1)	36 (19)
14Y2008	S	9090 (10)	8990 (11)	10640 (4)	7600 (19)	9130 (11)	19.1 (6)	4.7 (32)	89 (16)	1 (1)	36 (11)
14Y2018	SPQ	9060 (11)	9330 (7)	10510 (6)	7970 (11)	8420 (27)	19.7 (3)	4.0 (34)	85 (4)	1 (1)	34 (3)
11Y3326	M	9000 (12)	8970 (13)	10110 (19)	7710 (14)	9210 (9)	17.6 (25)	4.8 (30)	88 (11)	1 (1)	37 (29)
14Y2138	SWX	9000 (13)	8870 (16)	10420 (8)	7610 (18)	9080 (13)	18.6 (11)	4.9 (28)	91 (25)	18 (32)	37 (24)
13Y3131	M	8970 (14)	8480 (23)	10380 (9)	7310 (26)	9710 (1)	18.1 (19)	5.0 (2)	91 (25)	5 (28)	39 (32)
14Y3052	MB	8910 (15)	8570 (21)	10150 (16)	7970 (10)	8950 (16)	16.8 (31)	5.0 (9)	85 (5)	1 (1)	37 (25)
13Y3046	M	8860 (16)	8580 (20)	9730 (30)	7440 (24)	9670 (3)	17.1 (27)	5.0 (12)	85 (3)	3 (23)	37 (26)
13Y3123	M	8830 (17)	8370 (27)	9920 (23)	8050 (9)	8990 (14)	18.5 (12)	5.0 (2)	90 (18)	7 (29)	37 (23)
12Y2165	MPQ	8810 (18)	10150 (3)	9400 (33)	8090 (7)	7590 (32)	20.8 (2)	5.0 (12)	99 (34)	2 (21)	40 (34)
14Y2096	S	8750 (19)	8670 (18)	10150 (17)	7270 (27)	8930 (17)	19.7 (4)	5.0 (12)	91 (24)	1 (1)	35 (8)
M105	M	8740 (20)	8150 (28)	10350 (10)	7210 (28)	9260 (7)	18.4 (13)	4.9 (22)	84 (1)	2 (21)	35 (7)
13Y3052	M	8740 (21)	8450 (24)	9840 (26)	7560 (20)	9110 (12)	18.4 (13)	4.9 (25)	86 (7)	1 (1)	37 (21)
14Y1061	Lsr	8730 (22)	8610 (19)	10160 (15)	7700 (16)	8460 (24)	19.1 (7)	5.0 (2)	92 (30)	1 (1)	39 (33)
14Y1078	L	8690 (23)	8900 (15)	9700 (31)	8360 (6)	7810 (29)	17.5 (26)	5.0 (9)	91 (25)	1 (1)	36 (18)
14Y3047	M	8660 (24)	7940 (31)	10070 (21)	7190 (29)	9430 (5)	16.9 (30)	4.8 (31)	87 (8)	1 (1)	36 (17)
14Y2110	SLA	8640 (25)	9460 (6)	9950 (22)	7510 (21)	7650 (31)	22.4 (1)	4.9 (26)	97 (33)	1 (1)	36 (10)
13Y3181	M	8610 (26)	8130 (29)	9840 (28)	7760 (13)	8700 (20)	18.8 (9)	4.9 (22)	92 (28)	1 (1)	36 (15)
14Y3137	MB	8600 (27)	8370 (26)	9820 (29)	7360 (25)	8870 (18)	17.6 (23)	5.0 (12)	90 (20)	1 (1)	37 (30)
15Y19	L	8590 (28)	8450 (25)	9840 (27)	7660 (17)	8420 (26)	16.6 (32)	5.0 (2)	86 (6)	3 (23)	35 (6)
13Y3150	M	8510 (29)	8560 (22)	10120 (18)	6880 (33)	8470 (23)	17.6 (24)	4.9 (26)	91 (23)	1 (1)	35 (4)
13Y3146	M	8460 (30)	7810 (33)	9910 (24)	6890 (32)	9250 (8)	18.1 (18)	5.0 (12)	89 (17)	1 (1)	35 (5)
A202	LA	8400 (31)	8110 (30)	9910 (25)	7840 (12)	7750 (30)	18.4 (15)	5.0 (1)	91 (22)	1 (1)	35 (8)
M202	M	8230 (32)	7830 (32)	9460 (32)	7070 (31)	8590 (22)	17.9 (22)	4.9 (17)	90 (19)	3 (25)	36 (19)
13Y2130	SPQ	8150 (33)	9290 (8)	10090 (20)	7450 (23)	5750 (33)	18.9 (8)	5.0 (9)	88 (12)	5 (27)	34 (2)
CA201	SLA	5950 (34)	6160 (34)	7010 (34)	5330 (34)	5300 (34)	16.3 (34)	4.9 (17)	87 (9)	21 (33)	34 (1)
MEAN		8780	8780	10080	7650	8620	18.2	4.9	89	4	36
CV		5.3	5.3	2.9	6.1	6.7	5.4	3.1	1	182	4
LSD (.05)		460	950	600	950	1170	1	0.2	1	8	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic; MB = medium blast resistant; Sr = stem rot resistant;

SLA = short grain low amylase.

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. 2015 Biggs Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest (%)	Seeding Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre	Moisture					
10Y2043	S	10790 (1)	18.9 (3)	4.8 (15)	79 (12)	18 (11)	34 (3)	
CM203	SWX	10610 (2)	19.4 (2)	4.9 (3)	77 (9)	38 (15)	37 (12)	
11Y2022	MPQ	9960 (3)	19.5 (1)	4.8 (15)	78 (11)	1 (1)	38 (14)	
12Y20	L	9740 (4)	16.8 (10)	4.9 (6)	81 (16)	1 (1)	39 (17)	
12Y113	MB	9590 (5)	18.1 (8)	4.9 (6)	76 (5)	8 (8)	36 (9)	
S102	S	9520 (6)	13.8 (17)	4.9 (12)	75 (2)	48 (16)	36 (8)	
12Y3097	MB	9470 (7)	18.3 (6)	4.8 (17)	76 (6)	8 (7)	37 (10)	
M209	M	9460 (8)	18.4 (5)	4.9 (6)	78 (10)	3 (6)	36 (7)	
M205	M	9400 (9)	17.4 (9)	4.9 (12)	81 (16)	1 (1)	35 (5)	
M206	M	9350 (10)	18.6 (4)	4.9 (6)	76 (4)	13 (9)	38 (13)	
M208	MB	9090 (11)	16.6 (11)	4.9 (3)	79 (12)	21 (12)	38 (16)	
L206	L	8910 (12)	15.9 (14)	4.9 (6)	76 (7)	1 (1)	32 (1)	
11Y1005	L	8870 (13)	14.7 (16)	5.0 (2)	81 (15)	1 (1)	37 (10)	
M104	M	8580 (14)	16.0 (13)	4.9 (3)	71 (1)	13 (9)	33 (2)	
CH201	SPQ	8560 (15)	15.2 (15)	5.0 (1)	79 (14)	23 (13)	34 (4)	
CH202	SPQ	8180 (16)	18.1 (7)	4.9 (12)	77 (8)	80 (17)	36 (6)	
CM101	SWX	7940 (17)	16.5 (12)	4.9 (6)	75 (3)	35 (14)	38 (15)	
MEAN		9290	17.2	4.9	77	18	36	
CV		5.8	6.4	1.4	1.5	81.4	5.3	
LSD (.05)		760	1.6	0.1	2	21	3	

Preliminary Lines and Varieties

14Y2039	SWX	10440 (1)	17.9 (11)	4.7 (33)	83 (31)	1 (1)	37 (26)
14Y1006	L	10290 (2)	16.7 (22)	4.9 (11)	79 (16)	1 (1)	35 (18)
12Y2165	MPQ	10150 (3)	18.8 (5)	4.8 (18)	86 (33)	1 (1)	39 (34)
13Y2031	SPQ	10030 (4)	18.6 (8)	4.9 (3)	79 (19)	55 (34)	37 (25)
14Y3126	M	9880 (5)	17.8 (12)	4.9 (3)	76 (6)	1 (1)	37 (29)
14Y2110	SLA	9460 (6)	20.7 (1)	4.8 (18)	89 (34)	1 (1)	34 (5)
14Y2018	SPQ	9330 (7)	17.5 (16)	4.6 (34)	76 (6)	1 (1)	33 (3)
13Y2130	SPQ	9290 (8)	14.2 (33)	4.9 (11)	76 (6)	1 (1)	31 (1)
14Y1104	S	9120 (9)	15.7 (30)	4.9 (3)	83 (31)	1 (1)	38 (30)
14Y2007	S	9000 (10)	18.8 (4)	4.8 (18)	79 (19)	1 (1)	35 (13)
14Y2008	S	8990 (11)	18.2 (9)	4.8 (18)	80 (23)	1 (1)	34 (7)
14Y1066	L	8990 (12)	17.1 (19)	4.9 (9)	81 (28)	1 (1)	36 (21)
11Y3326	M	8970 (13)	17.6 (13)	4.9 (11)	76 (6)	1 (1)	35 (13)
14Y3094	M	8910 (14)	17.6 (15)	4.8 (18)	78 (14)	1 (1)	35 (13)
14Y1078	L	8900 (15)	17.6 (14)	4.8 (17)	81 (27)	1 (1)	35 (18)
14Y2138	SWX	8870 (16)	18.7 (6)	4.8 (18)	82 (30)	16 (32)	36 (23)
14Y3055	MB	8730 (17)	15.5 (32)	4.9 (3)	73 (1)	1 (1)	36 (22)
14Y2096	S	8670 (18)	19.5 (2)	4.8 (18)	81 (28)	1 (1)	37 (26)
14Y1061	Lsr	8610 (19)	17.2 (18)	4.9 (11)	80 (23)	1 (1)	38 (31)
13Y3046	M	8580 (20)	16.5 (25)	4.8 (18)	73 (1)	6 (28)	35 (18)
14Y3052	MB	8570 (21)	16.1 (29)	4.9 (11)	74 (4)	1 (1)	39 (33)
13Y3150	M	8560 (22)	16.5 (25)	4.8 (28)	80 (21)	1 (1)	35 (10)
13Y3131	M	8480 (23)	19.1 (3)	4.9 (3)	80 (21)	1 (1)	37 (28)
13Y3052	M	8450 (24)	17.0 (20)	4.8 (18)	76 (6)	1 (1)	33 (4)
15Y19	L	8450 (25)	16.6 (23)	4.9 (9)	74 (3)	1 (1)	34 (9)
14Y3137	MB	8370 (26)	16.4 (27)	5.0 (2)	77 (12)	1 (1)	38 (32)
13Y3123	M	8370 (27)	16.9 (21)	4.9 (3)	78 (14)	16 (32)	35 (13)
M105	M	8150 (28)	18.7 (7)	4.8 (28)	76 (6)	6 (28)	35 (11)
13Y3181	M	8130 (29)	17.4 (17)	4.8 (28)	81 (26)	1 (1)	35 (17)
A202	LA	8110 (30)	16.3 (28)	5.0 (1)	79 (16)	1 (1)	35 (11)
14Y3047	M	7940 (31)	15.5 (31)	4.8 (28)	75 (5)	1 (1)	34 (7)
M202	M	7830 (32)	16.6 (23)	4.9 (11)	80 (23)	11 (30)	36 (23)
13Y3146	M	7810 (33)	18.0 (10)	4.8 (18)	78 (13)	1 (1)	34 (6)
CA201	SLA	6160 (34)	13.6 (34)	4.8 (28)	79 (16)	15 (31)	32 (2)
MEAN		8780	17.3	4.8	79	4	36
CV		5.3	5.1	1.4	1.4	131.9	5.3
LSD (.05)		950	1.8	0.1	2	12	4

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. 2015 Sutter Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest (%)	Seeding Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre						
CM203	SWX	11130 (1)		24.1 (4)	5.0 (1)	88 (9)	42 (12)	41 (17)
10Y2043	S	11120 (2)		22.5 (9)	4.9 (15)	87 (5)	92 (16)	37 (5)
12Y20	L	10880 (3)		19.4 (16)	5.0 (1)	91 (14)	1 (1)	40 (15)
M209	M	10490 (4)		24.0 (6)	5.0 (1)	92 (16)	1 (1)	37 (7)
11Y2022	MPQ	10320 (5)		23.8 (7)	4.9 (15)	88 (10)	1 (1)	39 (11)
M208	MB	10200 (6)		20.2 (13)	5.0 (1)	87 (5)	1 (1)	39 (14)
12Y113	MB	10030 (7)		25.9 (1)	5.0 (1)	90 (13)	28 (11)	40 (15)
12Y3097	MB	9970 (8)		24.3 (2)	4.7 (17)	88 (8)	1 (1)	38 (10)
M206	M	9900 (9)		24.0 (5)	5.0 (1)	87 (7)	1 (1)	39 (12)
L206	L	9820 (10)		19.6 (15)	5.0 (1)	88 (10)	1 (1)	34 (1)
M205	M	9790 (11)		24.2 (3)	5.0 (1)	94 (17)	1 (1)	37 (4)
M104	M	9520 (12)		20.9 (11)	5.0 (1)	83 (1)	16 (10)	37 (5)
11Y1005	L	9370 (13)		20.2 (12)	5.0 (1)	89 (12)	1 (1)	39 (13)
S102	S	9190 (14)		19.1 (17)	5.0 (1)	85 (2)	48 (13)	38 (9)
CH201	SPQ	8510 (15)		20.9 (10)	5.0 (1)	91 (14)	71 (15)	36 (3)
CH202	SPQ	8470 (16)		22.8 (8)	5.0 (1)	87 (4)	99 (17)	35 (2)
CM101	SWX	7990 (17)		20.2 (14)	5.0 (1)	85 (3)	50 (14)	38 (8)
MEAN		9810		22.1	5.0	88	27	38
CV		4.3		5.8	1.1	1.6	73.8	3.4
LSD (.05)		590		1.8	0.1	2	28	2

Preliminary Lines and Varieties

14Y1006	L	11340 (1)		18.2 (32)	4.9 (24)	88 (14)	1 (1)	38 (11)
14Y2007	S	10970 (2)		21.2 (9)	4.4 (33)	87 (8)	11 (26)	37 (3)
14Y1104	S	10870 (3)		18.4 (31)	5.0 (1)	93 (29)	1 (1)	39 (20)
14Y2008	S	10640 (4)		20.1 (21)	5.0 (1)	88 (12)	1 (1)	37 (6)
13Y2031	SPQ	10540 (5)		20.9 (12)	5.0 (1)	87 (6)	99 (34)	40 (25)
14Y2018	SPQ	10510 (6)		21.6 (7)	4.0 (34)	87 (8)	1 (1)	36 (2)
14Y3126	M	10450 (7)		20.7 (13)	5.0 (1)	90 (19)	1 (1)	39 (17)
14Y2138	SWX	10420 (8)		20.6 (15)	4.8 (28)	91 (21)	36 (31)	38 (16)
13Y3131	M	10380 (9)		19.9 (22)	5.0 (1)	95 (32)	16 (29)	40 (28)
M105	M	10350 (10)		22.7 (3)	5.0 (1)	85 (1)	1 (1)	39 (22)
14Y3055	MB	10330 (11)		18.7 (29)	5.0 (1)	86 (4)	1 (1)	39 (22)
14Y1066	L	10300 (12)		19.6 (26)	4.9 (24)	92 (26)	1 (1)	37 (6)
14Y3094	M	10220 (13)		22.3 (4)	4.6 (30)	92 (26)	26 (30)	41 (31)
14Y2039	SWX	10190 (14)		20.4 (17)	5.0 (1)	92 (23)	36 (31)	39 (22)
14Y1061	Lsr	10160 (15)		19.8 (24)	5.0 (1)	92 (26)	1 (1)	42 (34)
14Y3052	MB	10150 (16)		18.6 (30)	5.0 (1)	86 (2)	1 (1)	38 (14)
14Y2096	S	10150 (17)		21.1 (10)	5.0 (1)	89 (16)	1 (1)	37 (9)
13Y3150	M	10120 (18)		19.9 (23)	4.8 (28)	91 (20)	1 (1)	37 (9)
11Y3326	M	10110 (19)		20.4 (16)	4.5 (31)	88 (14)	1 (1)	40 (28)
13Y2130	SPQ	10090 (20)		19.0 (28)	5.0 (1)	87 (8)	15 (28)	38 (11)
14Y3047	M	10070 (21)		19.1 (27)	4.5 (32)	88 (12)	1 (1)	40 (27)
14Y2110	SLA	9950 (22)		24.9 (2)	4.9 (24)	97 (33)	1 (1)	37 (6)
13Y3123	M	9920 (23)		22.0 (5)	5.0 (1)	93 (30)	11 (26)	40 (25)
13Y3146	M	9910 (24)		21.8 (6)	5.0 (1)	89 (17)	1 (1)	37 (3)
A202	LA	9910 (25)		20.4 (19)	5.0 (1)	92 (23)	1 (1)	37 (5)
13Y3052	M	9840 (26)		21.5 (8)	5.0 (1)	87 (8)	1 (1)	40 (30)
15Y19	L	9840 (27)		17.3 (33)	5.0 (1)	86 (2)	10 (25)	38 (14)
13Y3181	M	9840 (28)		21.0 (11)	4.9 (24)	93 (30)	1 (1)	39 (17)
14Y3137	MB	9820 (29)		19.8 (25)	5.0 (1)	91 (21)	1 (1)	39 (17)
13Y3046	M	9730 (30)		20.6 (14)	5.0 (1)	87 (6)	6 (23)	41 (33)
14Y1078	L	9700 (31)		20.4 (18)	5.0 (1)	92 (23)	1 (1)	39 (21)
M202	M	9460 (32)		20.2 (20)	4.9 (23)	89 (17)	1 (1)	38 (11)
12Y2165	MPQ	9400 (33)		25.7 (1)	5.0 (1)	101 (34)	6 (23)	41 (32)
CA201	SLA	7010 (34)		17.2 (34)	5.0 (1)	86 (4)	65 (33)	36 (1)
MEAN		10080		20.5	4.9	90	10	39
CV		2.9		6.1	4.8	0.7	134.6	3
LSD (.05)		600		2.5	0.5	1	29	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. 2015 Yolo Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre						
10Y2043	S	9260 (1)		21.3 (4)	5.0 (1)	83 (7)	1 (1)	35 (7)
12Y20	L	8670 (2)		21.2 (6)	5.0 (1)	85 (13)	1 (1)	37 (12)
CM203	SWX	8340 (3)		22.4 (1)	5.0 (1)	84 (9)	1 (1)	39 (17)
11Y1005	L	8150 (4)		21.0 (7)	5.0 (1)	85 (13)	1 (1)	38 (14)
M104	M	8150 (5)		20.6 (8)	5.0 (1)	75 (1)	1 (1)	34 (4)
M208	MB	8050 (6)		20.5 (10)	5.0 (1)	85 (13)	1 (1)	38 (15)
M205	M	7870 (7)		21.8 (2)	5.0 (1)	87 (17)	1 (1)	34 (3)
L206	L	7740 (8)		20.3 (13)	5.0 (1)	84 (9)	1 (1)	33 (1)
M209	M	7700 (9)		21.2 (5)	5.0 (1)	85 (13)	1 (1)	36 (8)
11Y2022	MPQ	7600 (10)		20.2 (14)	5.0 (1)	84 (8)	1 (1)	36 (9)
12Y113	MB	7570 (11)		21.6 (3)	5.0 (1)	85 (12)	1 (1)	39 (16)
M206	M	7490 (12)		20.3 (11)	5.0 (1)	81 (3)	1 (1)	36 (10)
12Y3097	MB	7170 (13)		20.3 (12)	4.9 (17)	83 (5)	1 (1)	37 (11)
CH201	SPQ	7150 (14)		20.6 (9)	5.0 (1)	84 (9)	1 (1)	35 (5)
CH202	SPQ	7060 (15)		20.0 (15)	5.0 (1)	83 (5)	1 (1)	34 (2)
S102	S	6940 (16)		18.7 (17)	5.0 (1)	79 (2)	1 (1)	37 (13)
CM101	SWX	5560 (17)		19.5 (16)	5.0 (1)	82 (4)	1 (1)	35 (6)
MEAN		7670		20.7	5.0	83	1	36
CV		5.1		3.5	0.8	0.7		2.9
LSD (.05)		560		1	0.1	1		2

Preliminary Lines and Varieties

14Y1066	L	8800 (1)		22.2 (3)	4.9 (28)	89 (29)	1 (1)	37 (25)
14Y1006	L	8660 (2)		19.8 (23)	5.0 (1)	85 (19)	1 (1)	36 (15)
14Y2007	S	8630 (3)		20.7 (13)	4.7 (33)	83 (11)	1 (1)	37 (19)
13Y2031	SPQ	8590 (4)		20.3 (20)	5.0 (1)	83 (11)	6 (34)	36 (13)
14Y3094	M	8450 (5)		19.5 (26)	5.0 (1)	84 (17)	1 (1)	37 (19)
14Y1078	L	8360 (6)		20.4 (17)	5.0 (1)	87 (28)	1 (1)	38 (27)
12Y2165	MPQ	8090 (7)		21.5 (7)	5.0 (1)	91 (31)	1 (1)	41 (34)
14Y1104	S	8080 (8)		21.0 (12)	5.0 (1)	91 (31)	1 (1)	38 (29)
13Y3123	M	8050 (9)		20.7 (15)	5.0 (1)	83 (11)	1 (1)	37 (19)
14Y3052	MB	7970 (10)		17.5 (34)	5.0 (1)	80 (4)	1 (1)	36 (10)
14Y2018	SPQ	7970 (11)		21.5 (9)	4.7 (33)	75 (1)	1 (1)	34 (5)
A202	LA	7840 (12)		21.5 (8)	5.0 (1)	85 (22)	1 (1)	35 (8)
13Y3181	M	7760 (13)		21.2 (10)	5.0 (1)	85 (22)	1 (1)	36 (13)
11Y3326	M	7710 (14)		19.1 (29)	5.0 (1)	83 (10)	1 (1)	38 (27)
14Y3055	MB	7700 (15)		18.2 (33)	5.0 (1)	80 (3)	1 (1)	36 (10)
14Y1061	Lsr	7700 (16)		22.9 (2)	5.0 (1)	90 (30)	1 (1)	40 (32)
15Y19	L	7660 (17)		19.7 (24)	5.0 (1)	84 (17)	1 (1)	35 (8)
14Y2138	SWX	7610 (18)		20.4 (19)	5.0 (1)	85 (22)	1 (1)	36 (15)
14Y2008	S	7600 (19)		21.7 (5)	5.0 (1)	85 (19)	1 (1)	37 (25)
13Y3052	M	7560 (20)		21.6 (6)	4.8 (32)	81 (6)	1 (1)	36 (12)
14Y2110	SLA	7510 (21)		23.7 (1)	4.9 (28)	93 (34)	1 (1)	36 (15)
14Y2039	SWX	7450 (22)		19.3 (28)	5.0 (1)	91 (31)	1 (1)	39 (31)
13Y2130	SPQ	7450 (23)		20.7 (14)	5.0 (1)	82 (7)	1 (1)	34 (2)
13Y3046	M	7440 (24)		18.8 (32)	5.0 (1)	80 (4)	1 (1)	37 (19)
14Y3137	MB	7360 (25)		20.5 (16)	4.9 (28)	85 (19)	1 (1)	39 (30)
13Y3131	M	7310 (26)		20.2 (21)	5.0 (1)	85 (22)	1 (1)	41 (33)
14Y2096	S	7270 (27)		21.8 (4)	5.0 (1)	86 (27)	1 (1)	34 (4)
M105	M	7210 (28)		19.0 (30)	5.0 (1)	78 (2)	1 (1)	34 (3)
14Y3047	M	7190 (29)		19.4 (27)	4.9 (28)	83 (11)	1 (1)	37 (24)
14Y3126	M	7090 (30)		21.0 (11)	5.0 (1)	82 (7)	1 (1)	36 (15)
M202	M	7070 (31)		20.4 (18)	5.0 (1)	84 (16)	1 (1)	37 (19)
13Y3146	M	6890 (32)		19.0 (30)	5.0 (1)	83 (11)	1 (1)	35 (6)
13Y3150	M	6880 (33)		20.1 (22)	5.0 (1)	85 (22)	1 (1)	35 (7)
CA201	SLA	5330 (34)		19.7 (25)	5.0 (1)	82 (9)	1 (1)	33 (1)
MEAN		7650		20.4	5.0	84	1	37
CV		6.1		3.7	1.9	1.1	96.4	3.7
LSD (.05)		950		1.5	0.2	2		3

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

MB = medium blast resistant; SLA = short grain low amalose; 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. 2015 San Joaquin Very Early Rice Variety Trials

Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest (%)	Seeding Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre	Moisture (%)					
M206	M	9970 (1)	15.1 (7)	5.0 (1)	103 (8)	1 (1)	35 (16)	
CM203	SWX	9770 (2)	16.1 (4)	5.0 (1)	100 (3)	13 (17)	36 (17)	
M104	M	9650 (3)	14.3 (14)	5.0 (1)	98 (1)	1 (1)	34 (15)	
12Y113	MB	9400 (4)	14.5 (13)	5.0 (1)	107 (14)	6 (16)	34 (14)	
12Y3097	MB	9390 (5)	14.9 (11)	5.0 (1)	102 (6)	1 (1)	33 (10)	
11Y2022	MPQ	9390 (6)	14.6 (12)	5.0 (1)	105 (12)	1 (1)	33 (8)	
S102	S	9240 (7)	13.5 (16)	5.0 (1)	99 (2)	3 (15)	33 (7)	
M209	M	9210 (8)	16.2 (3)	5.0 (1)	110 (16)	1 (1)	33 (11)	
10Y2043	S	9100 (9)	15.0 (9)	4.6 (16)	101 (5)	1 (1)	32 (3)	
CM101	SWX	8750 (10)	13.4 (17)	5.0 (1)	100 (4)	1 (1)	34 (12)	
CH201	SPQ	8540 (11)	14.9 (10)	5.0 (1)	105 (9)	1 (1)	33 (5)	
L206	L	8400 (12)	13.8 (15)	5.0 (1)	103 (7)	1 (1)	31 (1)	
12Y20	L	8260 (13)	15.1 (8)	5.0 (1)	105 (10)	1 (1)	34 (12)	
M205	M	8210 (14)	17.6 (1)	5.0 (1)	112 (17)	1 (1)	32 (2)	
CH202	SPQ	7890 (15)	15.3 (5)	3.4 (17)	106 (13)	1 (1)	33 (6)	
M208	MB	7790 (16)	16.6 (2)	5.0 (1)	109 (15)	1 (1)	32 (3)	
11Y1005	L	7290 (17)	15.1 (6)	5.0 (1)	105 (10)	1 (1)	33 (8)	
MEAN		8840	15.1	4.9	104	2	33	
CV		5.1	3.5	2.6	0.7	233.5	3.8	
LSD (.05)		640	0.8	0.2	1		2	
<i>Preliminary Lines and Varieties</i>								
13Y3131	M	9710 (1)	13.2 (28)	5.0 (1)	106 (18)	1 (1)	36 (33)	
14Y3055	MB	9700 (2)	13.8 (21)	5.0 (1)	100 (2)	1 (1)	35 (21)	
13Y3046	M	9670 (3)	12.7 (32)	5.0 (1)	101 (4)	1 (1)	35 (25)	
14Y2007	S	9590 (4)	16.4 (6)	4.4 (32)	105 (15)	1 (1)	35 (21)	
14Y3047	M	9430 (5)	13.5 (24)	5.0 (1)	101 (4)	1 (1)	34 (20)	
14Y2039	SWX	9320 (6)	14.7 (13)	5.0 (1)	104 (13)	1 (1)	35 (21)	
M105	M	9260 (7)	13.3 (26)	4.9 (29)	99 (1)	1 (1)	33 (5)	
13Y3146	M	9250 (8)	13.7 (22)	5.0 (1)	106 (18)	1 (1)	34 (10)	
11Y3326	M	9210 (9)	13.2 (29)	5.0 (1)	104 (13)	1 (1)	36 (29)	
14Y3126	M	9140 (10)	14.9 (11)	5.0 (1)	107 (20)	1 (1)	34 (16)	
14Y2008	S	9130 (11)	16.5 (5)	4.0 (33)	103 (10)	1 (1)	34 (10)	
13Y3052	M	9110 (12)	13.5 (25)	5.0 (1)	101 (6)	1 (1)	36 (32)	
14Y2138	SWX	9080 (13)	14.7 (14)	4.9 (29)	108 (22)	21 (34)	36 (30)	
13Y3123	M	8990 (14)	14.6 (15)	5.0 (1)	105 (15)	1 (1)	35 (28)	
14Y3094	M	8960 (15)	13.7 (22)	5.0 (1)	108 (22)	1 (1)	33 (3)	
14Y3052	MB	8950 (16)	14.9 (12)	5.0 (1)	102 (9)	1 (1)	34 (16)	
14Y2096	S	8930 (17)	16.4 (7)	5.0 (1)	109 (33)	1 (1)	33 (3)	
14Y3137	MB	8870 (18)	13.9 (19)	5.0 (1)	109 (31)	1 (1)	34 (14)	
14Y1066	L	8760 (19)	13.3 (27)	5.0 (1)	108 (26)	1 (1)	33 (7)	
13Y3181	M	8700 (20)	15.4 (9)	5.0 (1)	108 (22)	1 (1)	34 (19)	
14Y1104	S	8600 (21)	13.2 (30)	5.0 (1)	107 (21)	1 (1)	34 (14)	
M202	M	8590 (22)	14.3 (17)	5.0 (1)	108 (26)	1 (1)	35 (25)	
13Y3150	M	8470 (23)	14.0 (18)	5.0 (1)	108 (26)	1 (1)	32 (1)	
14Y1061	Lsr	8460 (24)	16.3 (8)	5.0 (1)	108 (26)	1 (1)	35 (25)	
13Y2031	SPQ	8450 (25)	13.8 (20)	4.9 (29)	101 (6)	1 (1)	36 (30)	
15Y19	L	8420 (26)	12.6 (33)	5.0 (1)	100 (2)	1 (1)	32 (2)	
14Y2018	SPQ	8420 (27)	18.4 (3)	2.8 (34)	103 (10)	1 (1)	33 (5)	
14Y1006	L	8170 (28)	13.0 (31)	5.0 (1)	101 (6)	1 (1)	34 (10)	
14Y1078	L	7810 (29)	11.6 (34)	5.0 (1)	106 (17)	1 (1)	33 (9)	
A202	LA	7750 (30)	15.4 (10)	5.0 (1)	108 (22)	1 (1)	34 (16)	
14Y2110	SLA	7650 (31)	20.1 (2)	5.0 (1)	109 (31)	1 (1)	35 (21)	
12Y2165	MPQ	7590 (32)	17.3 (4)	5.0 (1)	117 (34)	1 (1)	38 (34)	
13Y2130	SPQ	5750 (33)	21.6 (1)	5.0 (1)	108 (26)	1 (1)	34 (10)	
CA201	SLA	5300 (34)	14.5 (16)	5.0 (1)	103 (12)	1 (1)	33 (7)	
MEAN		8620	14.8	4.9	105	2	34	
CV		6.7	6.5	3.2	1	300.6	3.5	
LSD (.05)		1170	2	0.3	2		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 (2011-2015)

Location	Year	M04	M202	M206	Calmochi		
					101	S102	L206
Biggs (RES)	2011*	-	-	-	-	-	-
	2012	10260	10050	10420	8500	9370	10020
	2013	9710	8380	8610	8580	9120	9970
	2014	8150	7330	9200	6540	7640	8580
	2015	8580	7830	9350	7940	9520	8910
Location Mean		9175	8398	9395	7890	8913	9370
Sutter	2011*	-	-	-	-	-	-
	2012	8990	8810	9320	7500	8470	9570
	2013	9510	9990	9710	8340	9300	9700
	2014	9510	9060	9710	7780	8770	9440
	2015	9520	9460	9900	7990	9190	9820
Location Mean		9383	9330	9660	7903	8933	9633
Yolo	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
	2015	8150	7070	7490	5560	6940	7740
Location Mean		9362	8860	9436	7548	8350	8810
San Joaquin	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
	2015	9650	8590	9970	8750	9240	8400
Location Mean		8946	8392	9218	8120	8324	8230
Loc/Years Mean		9209	8732	9416	7862	8597	8956
Yield % M104		100.0	94.8	102.2	85.4	93.4	97.2
Number of Tests		18	18	18	18	18	18

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

Table 9. 2015 Four Location Early Rice Variety Trials.

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					
10Y2043	S	11330 (1)		11020 (2)	10730 (2)	11970 (1)	11590 (1)	17.7 (10)	4.8 (15)	82 (9)	65 (17)	37 (4)
14Y1006	L	11170 (2)		11090 (1)	11060 (1)	11190 (2)	11350 (2)	16.1 (14)	4.9 (9)	79 (4)	9 (4)	37 (5)
CM203	SWX	10380 (3)		10650 (3)	9460 (6)	10900 (5)	10510 (3)	19.4 (5)	5.0 (2)	79 (3)	58 (14)	40 (17)
12Y20	L	10330 (4)		10550 (4)	9130 (8)	11160 (3)	10480 (4)	15.6 (15)	4.9 (11)	85 (12)	4 (1)	40 (16)
12Y113	MB	10230 (5)		9800 (9)	10010 (3)	10910 (4)	10210 (7)	19.2 (6)	4.9 (7)	82 (10)	54 (12)	40 (14)
12Y3097	MB	9890 (6)		9960 (7)	9480 (5)	9820 (14)	10290 (5)	18.3 (8)	4.6 (17)	81 (7)	26 (9)	39 (8)
12Y2175	MPQ	9880 (7)		10390 (5)	8460 (12)	10580 (7)	10100 (8)	19.9 (2)	4.8 (16)	91 (17)	16 (7)	40 (18)
L206	L	9740 (8)		9360 (13)	9810 (4)	9940 (12)	9840 (11)	15.2 (17)	4.9 (9)	80 (5)	20 (8)	35 (1)
M209	M	9700 (9)		9490 (11)	8580 (11)	10490 (8)	10240 (6)	19.7 (3)	4.9 (7)	89 (15)	12 (5)	40 (15)
M206	M	9700 (9)		9620 (10)	9370 (7)	9850 (13)	9940 (10)	18.8 (7)	4.9 (11)	80 (6)	32 (10)	39 (11)
11Y1005	L	9430 (11)		9470 (12)	7970 (13)	10660 (6)	9620 (13)	16.4 (13)	5.0 (3)	83 (11)	4 (3)	40 (13)
11Y2183	MPQ	9360 (12)		9800 (8)	7340 (16)	10280 (10)	10030 (9)	20.5 (1)	4.6 (18)	92 (18)	14 (6)	39 (10)
M208	MB	9330 (13)		8850 (14)	8660 (10)	10330 (9)	9460 (14)	17.0 (11)	4.9 (6)	85 (13)	35 (11)	40 (12)
S102	S	9200 (14)		10050 (6)	8810 (9)	9200 (16)	8740 (15)	14.6 (18)	4.9 (5)	77 (1)	55 (13)	39 (9)
M205	M	9050 (15)		8720 (15)	7780 (14)	10050 (11)	9650 (12)	19.5 (4)	4.9 (14)	91 (16)	4 (1)	38 (7)
CH202	SPQ	8520 (16)		8510 (17)	7480 (15)	9570 (15)	8510 (16)	18.0 (9)	4.9 (13)	82 (8)	88 (18)	35 (2)
CH201	SPQ	8300 (17)		8580 (16)	7180 (17)	8940 (17)	8490 (17)	16.5 (12)	5.0 (1)	85 (14)	63 (15)	36 (3)
CM101	SWX	7610 (18)		8000 (18)	6720 (18)	7890 (18)	7840 (18)	15.4 (16)	5.0 (4)	78 (2)	64 (16)	38 (6)
MEAN		9620		9660	8780	10210	9830	17.7	4.9	83	35	38
CV		4.6		5.3	4.7	3.2	4.9	10.2	2.1	1.1	43.2	3.6
LSD (.05)		310		730	590	470	680	1.3	0.1	1	10	1

Preliminary Lines and Varieties

14Y1054	L	10720 (1)		9820 (4)	10380 (3)	12100 (1)	10550 (3)	15.2 (32)	5.0 (1)	84 (3)	2 (11)	39 (21)
15Y84	LJ	10320 (2)		9560 (10)	10470 (2)	10800 (2)	10450 (4)	14.8 (33)	4.9 (10)	86 (13)	2 (9)	35 (4)
14Y1104	L	10070 (3)		9560 (11)	10510 (1)	10370 (9)	9850 (19)	16.7 (26)	5.0 (4)	85 (9)	1 (1)	39 (13)
14Y2147	MPQ	9970 (4)		10290 (2)	9500 (5)	9920 (23)	10170 (12)	20.3 (5)	4.9 (20)	90 (28)	5 (14)	39 (17)
13Y3191	M	9880 (5)		9720 (6)	9220 (10)	10290 (14)	10280 (10)	20.4 (4)	4.7 (33)	86 (13)	18 (28)	39 (22)
13Y3177	M	9840 (5)		9660 (7)	9140 (12)	10120 (20)	10450 (5)	19.5 (15)	4.9 (21)	86 (10)	8 (17)	41 (31)
11Y3326	M	9750 (6)		8690 (24)	9680 (4)	10310 (13)	10330 (7)	18.2 (19)	4.7 (31)	81 (2)	29 (30)	39 (19)
14Y3087	M	9740 (8)		9410 (12)	9240 (8)	10670 (3)	9620 (22)	17.2 (24)	4.9 (21)	84 (3)	28 (29)	40 (29)
14Y3088	M	9720 (9)		9210 (14)	8450 (21)	10130 (19)	11100 (1)	19.7 (14)	4.7 (35)	89 (24)	29 (31)	39 (23)
14Y1143	LSr	9690 (10)		10430 (1)	8790 (16)	10520 (4)	9010 (27)	15.8 (30)	4.9 (14)	87 (17)	1 (1)	34 (2)
14Y2160	MPQ	9670 (11)		9770 (5)	9190 (11)	9660 (27)	10060 (14)	20.1 (6)	4.9 (21)	92 (32)	11 (21)	40 (28)
13Y3176	M	9640 (12)		9590 (9)	8220 (23)	10420 (8)	10340 (6)	17.8 (21)	4.8 (24)	87 (18)	5 (13)	38 (10)
13Y3172	M	9640 (13)		8870 (18)	9340 (7)	10230 (16)	10130 (13)	19.7 (13)	4.8 (25)	86 (13)	14 (24)	39 (25)
M105	M	9610 (14)		8610 (25)	9350 (6)	10500 (6)	9970 (16)	17.7 (22)	4.8 (27)	79 (1)	42 (35)	39 (24)
13Y3146	M	9570 (15)		9190 (15)	9110 (13)	9970 (22)	10020 (15)	18.8 (18)	4.7 (28)	85 (7)	8 (18)	38 (7)
11Y3655	M	9550 (16)		8820 (21)	8830 (15)	10310 (12)	10230 (11)	20.0 (7)	4.9 (13)	90 (28)	7 (16)	39 (20)
10Y3737	M	9540 (17)		9050 (17)	8470 (20)	10350 (10)	10280 (9)	19.5 (16)	4.7 (28)	89 (24)	35 (33)	39 (18)
14Y3124	M	9480 (18)		9900 (3)	8510 (19)	10240 (15)	9260 (26)	19.8 (9)	4.9 (14)	90 (27)	42 (36)	41 (34)
13Y3156	M	9330 (19)		8360 (29)	8200 (24)	9760 (26)	10970 (2)	19.7 (10)	4.7 (31)	91 (30)	2 (10)	38 (12)
12Y2174	MPQ	9320 (20)		8820 (20)	8650 (18)	9830 (24)	9970 (17)	19.7 (12)	4.8 (25)	89 (21)	9 (19)	41 (32)
15Y90	LJ	9320 (21)		9620 (8)	8980 (14)	10040 (21)	8620 (28)	15.7 (31)	5.0 (2)	85 (7)	1 (8)	39 (26)
13Y3131	M	9300 (22)		8790 (22)	8190 (25)	10520 (5)	9710 (21)	20.0 (8)	4.9 (8)	87 (18)	34 (32)	42 (35)
11Y2182	MPQ	9260 (23)		9140 (16)	7250 (29)	10350 (11)	10320 (8)	20.6 (3)	4.7 (28)	92 (33)	4 (12)	39 (16)
12Y2163	MPQ	9180 (24)		8720 (23)	7760 (27)	10440 (7)	9810 (20)	19.3 (17)	4.9 (18)	91 (31)	12 (22)	39 (15)
12Y1022	LA	9130 (25)		8410 (28)	8390 (22)	10160 (17)	9550 (23)	16.4 (27)	5.0 (4)	86 (12)	1 (1)	40 (30)
A202	LA	9100 (26)		8340 (30)	9220 (9)	9510 (28)	9320 (25)	17.1 (25)	5.0 (2)	85 (5)	14 (25)	38 (9)
M202	M	8950 (27)		8570 (27)	7550 (28)	9820 (25)	9860 (18)	17.8 (20)	4.9 (10)	86 (11)	37 (34)	41 (33)
13Y3180	M	8690 (28)		8600 (26)	6630 (31)	10140 (18)	9380 (24)	17.3 (23)	4.9 (18)	89 (22)	18 (27)	39 (27)
A301	LA	8350 (29)		8090 (31)	8770 (17)	8980 (30)	7560 (29)	19.7 (11)	4.7 (33)	98 (35)	1 (1)	34 (3)
11Y106	LJ	7700 (30)		8860 (19)	7810 (26)	8280 (32)	5880 (36)	16.0 (29)	4.7 (35)	89 (26)	13 (23)	38 (11)
15Y89	LJ	7570 (31)		7850 (33)	6270 (34)	8880 (31)	7290 (30)	13.8 (35)	4.9 (8)	85 (5)	16 (26)	43 (36)
M402	MPQ	7380 (32)		7930 (32)	5660 (36)	9320 (29)	6630 (34)	26.8 (1)	4.9 (7)	105 (36)	1 (1)	38 (8)
12Y2167	SPQ	6770 (33)		9210 (13)	5750 (35)	5000 (36)	7110 (31)	22.2 (2)	4.9 (14)	88 (20)	9 (20)	39 (14)
CT202	LB	6690 (34)		6790 (34)	6370 (33)	6660 (35)	6950 (32)	14.7 (34)	5.0 (6)	86 (13)	5 (14)	35 (5)
14Y1142	LB	6670 (35)		6120 (35)	6420 (32)	7220 (33)	6910 (33)	16.1 (28)	4.9 (10)	89 (23)	1 (1)	37 (6)
15Y85	LB	6450 (36)		5710 (36)	6720 (30)	6990 (34)	6380 (35)	13.6 (36)	4.9 (14)	95 (34)	1 (1)	33 (1)
MEAN		9040		8840	8360	9690	9290	18.3	4.8	88	13	39
CV		5.1		6.5	5.6	3.1	5.1	6.6	2.9	2.3	90.9	3.5
LSD (.05)		460		1160	950	600	960	1.2	0.1	2	12	1

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=long Basmati; J=Jasmine; MB = medium Blast resistant; 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 10. 2015 Biggs Early Rice Variety Trials

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield		Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)				
14Y1006	L	11090 (1)	14.9 (12)	4.7 (10)	77 (5)	19 (6)	33 (2)
10Y2043	S	11020 (2)	15.1 (11)	4.6 (14)	78 (10)	81 (13)	33 (5)
CM203	SWX	10650 (3)	17.3 (5)	4.9 (2)	75 (2)	86 (16)	35 (10)
12Y20	L	10550 (4)	14.7 (13)	4.9 (4)	81 (14)	9 (3)	38 (17)
12Y2175	MPQ	10390 (5)	17.2 (6)	4.5 (16)	82 (16)	26 (7)	38 (18)
S102	S	10050 (6)	12.8 (17)	4.8 (7)	75 (2)	90 (17)	35 (9)
12Y3097	MB	9960 (7)	17.6 (3)	4.2 (18)	78 (9)	46 (9)	37 (12)
11Y2183	MPQ	9800 (8)	17.6 (1)	4.4 (17)	85 (18)	30 (8)	35 (7)
12Y113	MB	9800 (9)	17.6 (2)	4.7 (8)	77 (8)	83 (14)	37 (15)
M206	M	9620 (10)	17.0 (8)	4.7 (12)	77 (4)	70 (12)	36 (11)
M209	M	9490 (11)	17.5 (4)	4.7 (8)	81 (15)	5 (1)	37 (14)
11Y1005	L	9470 (12)	13.8 (15)	4.9 (2)	80 (13)	14 (5)	37 (12)
L206	L	9360 (13)	14.5 (14)	4.7 (10)	77 (5)	5 (1)	32 (1)
M208	MB	8850 (14)	15.7 (10)	4.8 (5)	79 (12)	66 (10)	37 (16)
M205	M	8720 (15)	16.6 (9)	4.6 (15)	82 (16)	9 (3)	35 (7)
CH201	SPQ	8580 (16)	13.1 (16)	5.0 (1)	79 (11)	68 (11)	34 (6)
CH202	SPQ	8510 (17)	17.2 (7)	4.6 (13)	77 (5)	96 (18)	33 (4)
CM101	SWX	8000 (18)	12.4 (18)	4.8 (5)	74 (1)	84 (15)	33 (2)
MEAN		9660	15.7	4.7	79	49	35
CV		5.3	6.2	2.5	1.3	35.8	4.7
LSD (.05)		730	1.4	0.2	1	25	2
<i>Preliminary Lines and Varieties</i>							
14Y1143	LSr	10430 (1)	14.4 (30)	4.6 (22)	81 (14)	0 (1)	33 (4)
14Y2147	MPQ	10290 (2)	16.7 (15)	4.6 (19)	83 (27)	13 (20)	36 (12)
14Y3124	M	9900 (3)	17.9 (4)	4.8 (9)	83 (27)	73 (34)	40 (35)
14Y1054	L	9820 (4)	14.5 (26)	4.9 (1)	80 (5)	1 (11)	37 (23)
14Y2160	MPQ	9770 (5)	16.1 (21)	4.6 (22)	85 (32)	5 (14)	36 (20)
13Y3191	M	9720 (6)	19.1 (2)	4.6 (19)	81 (7)	58 (31)	37 (28)
13Y3177	M	9660 (7)	17.3 (7)	4.7 (11)	81 (14)	8 (17)	37 (26)
15Y90	LJ	9620 (8)	14.4 (29)	4.9 (4)	81 (11)	3 (12)	37 (23)
13Y3176	M	9590 (9)	16.5 (17)	4.7 (11)	81 (14)	8 (17)	35 (10)
15Y84	LJ	9560 (10)	13.6 (33)	4.9 (3)	81 (11)	0 (1)	33 (2)
14Y1104	L	9560 (11)	14.5 (27)	4.8 (5)	81 (14)	0 (1)	35 (9)
14Y3087	M	9410 (12)	15.8 (24)	4.4 (29)	79 (4)	30 (27)	38 (31)
12Y2167	SPQ	9210 (13)	18.0 (3)	4.6 (22)	82 (20)	25 (26)	36 (16)
14Y3088	M	9210 (14)	16.8 (14)	4.6 (22)	82 (24)	73 (34)	36 (12)
13Y3146	M	9190 (15)	17.2 (9)	4.3 (34)	81 (7)	20 (22)	37 (26)
11Y2182	MPQ	9140 (16)	17.3 (8)	4.4 (32)	84 (31)	13 (20)	36 (12)
10Y3737	M	9050 (17)	17.0 (10)	4.4 (29)	82 (24)	58 (31)	36 (12)
13Y3172	M	8870 (18)	17.5 (5)	4.6 (22)	81 (7)	23 (24)	37 (28)
11Y106	LJ	8860 (19)	15.8 (24)	3.9 (36)	89 (34)	23 (24)	36 (16)
12Y2174	MPQ	8820 (20)	16.9 (12)	4.6 (22)	82 (20)	8 (17)	38 (30)
11Y3655	M	8820 (21)	17.0 (11)	4.6 (19)	82 (24)	0 (1)	37 (22)
13Y3131	M	8790 (22)	17.5 (6)	4.7 (11)	81 (14)	45 (29)	41 (36)
12Y2163	MPQ	8720 (23)	16.8 (13)	4.7 (15)	83 (30)	5 (14)	36 (16)
11Y3326	M	8690 (24)	16.0 (22)	4.4 (29)	77 (2)	53 (30)	35 (8)
M105	M	8610 (25)	16.4 (18)	4.4 (32)	76 (1)	73 (34)	36 (16)
13Y3180	M	8600 (26)	16.4 (19)	4.7 (15)	82 (20)	20 (22)	36 (20)
M202	M	8570 (27)	16.0 (23)	4.8 (7)	81 (14)	70 (33)	38 (31)
12Y1022	LA	8410 (28)	13.8 (32)	4.8 (5)	81 (11)	0 (1)	37 (25)
13Y3156	M	8360 (29)	16.3 (20)	4.5 (28)	83 (27)	0 (1)	35 (11)
A202	LA	8340 (30)	14.4 (28)	4.9 (1)	80 (6)	4 (13)	35 (7)
A301	LA	8090 (31)	16.5 (16)	4.1 (35)	96 (35)	0 (1)	33 (2)
M402	MPQ	7930 (32)	21.6 (1)	4.8 (9)	105 (36)	0 (1)	39 (33)
15Y89	LJ	7850 (33)	13.1 (35)	4.7 (14)	81 (7)	38 (28)	39 (34)
CT202	LB	6790 (34)	13.4 (34)	4.8 (8)	79 (3)	5 (14)	33 (5)
14Y1142	LB	6120 (35)	13.8 (31)	4.6 (18)	82 (20)	0 (1)	34 (6)
15Y85	LB	5710 (36)	12.8 (36)	4.7 (15)	87 (33)	0 (1)	29 (1)
MEAN		8840	16.1	4.6	82	21	36
CV		6.5	3.6	3.7	1.1	67.8	3.6
LSD (.05)		1160	1.2	0.3	2	29	3

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

MB = medium Blast resistant; Sr=Stem Rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 11. 2015 Butte Early Rice Variety Trials

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield		Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14%	Moisture at Harvest (%)				
14Y1006	L	11060 (1)	19.1 (14)	5.0 (1)	78 (4)	1 (1)	41 (12)
10Y2043	S	10730 (2)	21.9 (8)	5.0 (1)	82 (10)	73 (16)	38 (4)
12Y113	MB	10010 (3)	24.7 (1)	5.0 (1)	80 (8)	43 (13)	40 (9)
L206	L	9810 (4)	18.5 (17)	5.0 (1)	78 (4)	1 (1)	37 (2)
12Y3097	MB	9480 (5)	22.8 (6)	4.9 (16)	78 (4)	11 (11)	40 (5)
CM203	SWX	9460 (6)	22.9 (5)	5.0 (1)	76 (3)	65 (14)	42 (16)
M206	M	9370 (7)	23.5 (3)	5.0 (1)	78 (4)	8 (10)	40 (8)
12Y20	L	9130 (8)	19.8 (13)	5.0 (1)	87 (14)	1 (1)	42 (17)
S102	S	8810 (9)	17.5 (18)	5.0 (1)	75 (1)	26 (12)	40 (7)
M208	MB	8660 (10)	20.0 (12)	4.9 (16)	87 (13)	6 (9)	40 (10)
M209	M	8580 (11)	23.6 (2)	5.0 (1)	92 (15)	1 (1)	41 (15)
12Y2175	MPQ	8460 (12)	22.3 (7)	5.0 (1)	94 (16)	1 (1)	42 (17)
11Y1005	L	7970 (13)	18.6 (16)	5.0 (1)	85 (11)	1 (1)	41 (11)
M205	M	7780 (14)	21.4 (10)	5.0 (1)	94 (16)	1 (1)	40 (5)
CH202	SPQ	7480 (15)	23.0 (4)	5.0 (1)	81 (9)	99 (18)	36 (1)
11Y2183	MPQ	7340 (16)	21.7 (9)	4.9 (18)	94 (16)	1 (1)	41 (13)
CH201	SPQ	7180 (17)	20.7 (11)	5.0 (1)	86 (12)	89 (17)	37 (3)
CM101	SWX	6720 (18)	18.9 (15)	5.0 (1)	76 (2)	67 (15)	41 (13)
MEAN		8780	21.2	5.0	83	27	40
CV		4.7	6	1.3	0.4	43.3	2.2
LSD (.05)		590	1.8		1	17	1
<i>Preliminary Lines and Varieties</i>							
14Y1104	L	10510 (1)	18.2 (29)	5.0 (1)	87 (12)	1 (1)	39 (10)
15Y84	LJ	10470 (2)	18.1 (31)	5.0 (1)	88 (15)	1 (1)	36 (3)
14Y1054	L	10380 (3)	18.1 (30)	5.0 (1)	87 (8)	1 (1)	41 (29)
11Y3326	M	9680 (4)	20.6 (20)	4.8 (35)	81 (2)	6 (34)	40 (19)
14Y2147	MPQ	9500 (5)	23.4 (4)	5.0 (1)	93 (24)	1 (1)	39 (11)
M105	M	9350 (6)	20.6 (20)	5.0 (1)	78 (1)	6 (34)	40 (15)
13Y3172	M	9340 (7)	21.8 (12)	4.9 (29)	87 (8)	1 (1)	39 (13)
14Y3087	M	9240 (8)	21.4 (15)	5.0 (1)	86 (7)	11 (36)	41 (29)
A202	LA	9220 (9)	18.8 (27)	5.0 (1)	84 (3)	1 (1)	42 (34)
13Y3191	M	9220 (10)	23.9 (3)	4.8 (35)	88 (13)	1 (1)	41 (24)
14Y2160	MPQ	9190 (11)	21.8 (13)	5.0 (1)	95 (32)	1 (1)	41 (29)
13Y3177	M	9140 (12)	22.2 (10)	5.0 (1)	87 (8)	1 (1)	40 (19)
13Y3146	M	9110 (13)	22.5 (8)	5.0 (1)	86 (5)	1 (1)	38 (6)
15Y90	LJ	8980 (14)	18.1 (31)	5.0 (1)	84 (4)	1 (1)	40 (19)
11Y3655	M	8830 (15)	22.3 (9)	5.0 (1)	94 (27)	1 (1)	39 (13)
14Y1143	LSr	8790 (16)	17.7 (33)	5.0 (1)	88 (15)	1 (1)	35 (2)
A301	LA	8770 (17)	23.1 (5)	5.0 (1)	100 (36)	1 (1)	36 (3)
12Y2174	MPQ	8650 (18)	21.8 (11)	4.9 (29)	91 (22)	1 (1)	41 (27)
14Y3124	M	8510 (19)	20.8 (18)	5.0 (28)	93 (24)	1 (1)	42 (32)
10Y3737	M	8470 (20)	22.6 (7)	4.9 (29)	94 (27)	1 (1)	40 (16)
14Y3088	M	8450 (21)	23.0 (6)	4.9 (29)	93 (26)	1 (1)	41 (24)
12Y1022	LA	8390 (22)	19.3 (24)	5.0 (1)	88 (13)	1 (1)	42 (32)
13Y3176	M	8220 (23)	19.8 (22)	5.0 (1)	89 (18)	1 (1)	39 (9)
13Y3156	M	8200 (24)	21.2 (16)	4.9 (29)	94 (29)	1 (1)	40 (19)
13Y3131	M	8190 (25)	21.4 (14)	5.0 (1)	91 (21)	1 (1)	43 (35)
11Y106	LJ	7810 (26)	19.2 (25)	5.0 (1)	90 (20)	1 (1)	39 (11)
12Y2163	MPQ	7760 (27)	20.6 (19)	5.0 (1)	95 (31)	1 (1)	40 (18)
M202	M	7550 (28)	18.8 (26)	5.0 (1)	87 (8)	1 (1)	41 (28)
11Y2182	MPQ	7250 (29)	21.1 (17)	4.9 (29)	95 (32)	1 (1)	40 (19)
15Y85	LB	6720 (30)	16.8 (34)	5.0 (1)	99 (35)	1 (1)	34 (1)
13Y3180	M	6630 (31)	19.8 (22)	5.0 (1)	92 (23)	1 (1)	41 (24)
14Y1142	LB	6420 (32)	18.4 (28)	5.0 (1)	94 (29)	1 (1)	38 (7)
CT202	LB	6370 (33)	16.7 (35)	5.0 (1)	89 (18)	1 (1)	38 (8)
15Y89	LJ	6270 (34)	16.0 (36)	5.0 (1)	86 (5)	1 (1)	45 (36)
12Y2167	SPQ	5750 (35)	25.1 (2)	5.0 (1)	89 (17)	1 (1)	40 (17)
M402	MPQ	5660 (36)	36.2 (1)	5.0 (1)	97 (34)	1 (1)	37 (5)
MEAN		8360	20.9	5.0	90	2	40
CV		5.6	4	2.5	4.2	178.8	2.6
LSD (.05)		950	1.7		8		2

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

MB = medium Blast resistant; Sr=Stem Rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 12. 2015 Colusa Early Rice Variety Trials

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Plant Height (in)
		Moisture lbs/acre	Moisture				
10Y2043	S	11970 (1)	17.9 (9)	4.9 (16)	83 (9)	14 (17)	37 (5)
14Y1006	L	11190 (2)	14.9 (14)	5.0 (1)	78 (1)	2 (12)	36 (4)
12Y20	L	11160 (3)	14.7 (15)	5.0 (1)	83 (7)	1 (1)	40 (13)
12Y113	MB	10910 (4)	19.6 (4)	5.0 (1)	88 (12)	3 (13)	41 (15)
CM203	SWX	10900 (5)	19.1 (6)	5.0 (1)	82 (5)	3 (14)	41 (18)
11Y1005	L	10660 (6)	15.1 (13)	5.0 (1)	80 (4)	1 (1)	39 (9)
12Y2175	MPQ	10580 (7)	19.5 (5)	4.9 (15)	98 (18)	1 (1)	41 (17)
M209	M	10490 (8)	21.7 (3)	5.0 (1)	92 (15)	1 (1)	39 (12)
M208	MB	10330 (9)	16.5 (11)	5.0 (1)	88 (13)	1 (1)	41 (16)
11Y2183	MPQ	10280 (10)	24.2 (1)	4.5 (18)	97 (16)	1 (1)	39 (9)
M205	M	10050 (11)	23.2 (2)	5.0 (1)	97 (16)	1 (1)	38 (6)
L206	L	9940 (12)	13.9 (18)	5.0 (1)	82 (6)	1 (1)	35 (2)
M206	M	9850 (13)	18.7 (7)	5.0 (1)	83 (9)	1 (1)	40 (14)
12Y3097	MB	9820 (14)	18.4 (8)	4.7 (17)	83 (8)	1 (1)	39 (8)
CH202	SPQ	9570 (15)	16.6 (10)	5.0 (1)	85 (11)	58 (18)	34 (1)
S102	S	9200 (16)	14.7 (16)	5.0 (1)	78 (2)	8 (16)	39 (9)
CH201	SPQ	8940 (17)	16.2 (12)	5.0 (1)	90 (14)	1 (1)	36 (3)
CM101	SWX	7890 (18)	14.3 (17)	5.0 (1)	80 (3)	6 (15)	38 (7)
MEAN		10210	17.7	4.9	86	6	39
CV		3.2	4.2	1.8	1.5	171.2	3.1
LSD (.05)		470	1.1	0.1	2	14	2
<i>Preliminary Lines and Varieties</i>							
14Y1054	L	12100 (1)	14.8 (30)	5.0 (1)	82 (2)	1 (1)	38 (12)
15Y84	LJ	10800 (2)	14.0 (33)	4.8 (33)	87 (8)	1 (1)	35 (3)
14Y3087	M	10670 (3)	17.2 (24)	5.0 (1)	87 (8)	1 (1)	40 (28)
14Y1143	LSr	10520 (4)	16.3 (27)	5.0 (1)	87 (6)	1 (1)	33 (1)
13Y3131	M	10520 (5)	19.9 (18)	5.0 (1)	90 (16)	1 (1)	43 (35)
M105	M	10500 (6)	18.8 (21)	4.9 (24)	79 (1)	1 (1)	40 (26)
12Y2163	MPQ	10440 (7)	23.0 (8)	5.0 (1)	95 (31)	1 (1)	38 (10)
13Y3176	M	10420 (8)	19.7 (19)	4.9 (24)	92 (21)	1 (1)	39 (17)
14Y1104	L	10370 (9)	14.7 (31)	5.0 (1)	86 (5)	1 (1)	40 (28)
10Y3737	M	10350 (10)	21.6 (12)	4.9 (24)	93 (22)	1 (1)	39 (19)
11Y2182	MPQ	10350 (11)	24.6 (3)	5.0 (1)	96 (32)	1 (1)	39 (14)
11Y3655	M	10310 (12)	22.8 (9)	5.0 (1)	94 (27)	1 (1)	39 (14)
11Y3326	M	10310 (13)	17.8 (23)	4.9 (24)	84 (3)	1 (1)	42 (33)
13Y3191	M	10290 (14)	20.5 (15)	4.6 (35)	90 (16)	1 (1)	39 (14)
14Y3124	M	10240 (15)	23.4 (5)	4.9 (24)	95 (29)	1 (1)	40 (22)
13Y3172	M	10230 (16)	21.5 (13)	5.0 (1)	90 (16)	1 (1)	40 (22)
12Y1022	LA	10160 (17)	16.3 (26)	5.0 (1)	87 (8)	1 (1)	41 (30)
13Y3180	M	10140 (18)	18.7 (22)	4.9 (24)	93 (22)	1 (1)	41 (31)
14Y3088	M	10130 (19)	23.1 (7)	4.6 (35)	93 (22)	1 (1)	40 (21)
13Y3177	M	10120 (20)	20.8 (14)	4.9 (24)	90 (13)	1 (1)	40 (22)
15Y90	LJ	10040 (21)	14.6 (32)	5.0 (1)	87 (8)	1 (1)	40 (26)
13Y3146	M	9970 (22)	20.1 (16)	4.9 (24)	90 (13)	1 (1)	37 (7)
14Y2147	MPQ	9920 (23)	22.8 (9)	5.0 (1)	95 (29)	1 (1)	39 (19)
12Y2174	MPQ	9830 (24)	22.0 (11)	4.9 (24)	94 (27)	1 (1)	42 (33)
M202	M	9820 (25)	19.6 (20)	5.0 (1)	90 (16)	1 (1)	41 (32)
13Y3156	M	9760 (26)	23.2 (6)	4.7 (34)	97 (34)	1 (1)	39 (13)
14Y2160	MPQ	9660 (27)	24.0 (4)	5.0 (1)	97 (34)	1 (1)	40 (22)
A202	LA	9510 (28)	16.8 (25)	5.0 (1)	87 (6)	1 (1)	37 (6)
M402	MPQ	9320 (29)	25.5 (1)	5.0 (1)	104 (36)	1 (1)	39 (17)
A301	LA	8980 (30)	19.9 (17)	5.0 (1)	96 (32)	1 (1)	35 (4)
15Y89	LJ	8880 (31)	11.3 (36)	5.0 (1)	85 (4)	1 (1)	43 (36)
11Y106	LJ	8280 (32)	15.1 (28)	5.0 (1)	91 (20)	1 (1)	37 (8)
14Y1142	LB	7220 (33)	15.0 (29)	5.0 (1)	90 (13)	1 (1)	37 (9)
15Y85	LB	6990 (34)	12.6 (35)	5.0 (1)	94 (25)	1 (1)	36 (5)
CT202	LB	6660 (35)	13.4 (34)	5.0 (1)	89 (12)	1 (1)	33 (2)
12Y2167	SPQ	5000 (36)	25.5 (2)	5.0 (1)	94 (25)	1 (1)	38 (10)
MEAN		9690	19.2	4.9	91	1	39
CV		3.1	3	2.6	0.8		4
LSD (.05)		600	1.2		1		3

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

MB = medium Blast resistant; Sr=Stem Rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 13. 2015 Yuba Early Rice Variety Trials

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14%		Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre	Moisture at Harvest (%)				
10Y2043	S	11590 (1)	15.7 (11)	4.9 (13)	85 (10)	92 (14)	39 (5)
14Y1006	L	11350 (2)	15.5 (12)	5.0 (1)	85 (9)	13 (4)	39 (4)
CM203	SWX	10510 (3)	18.6 (2)	5.0 (1)	82 (2)	76 (12)	42 (16)
12Y20	L	10480 (4)	13.2 (18)	4.8 (15)	89 (14)	6 (2)	40 (8)
12Y3097	MB	10290 (5)	14.4 (15)	4.7 (17)	84 (8)	46 (8)	40 (11)
M209	M	10240 (6)	16.1 (8)	5.0 (1)	89 (15)	40 (7)	42 (18)
12Y113	MB	10210 (7)	15.0 (14)	5.0 (1)	84 (7)	89 (13)	42 (15)
12Y2175	MPQ	10100 (8)	20.6 (1)	4.8 (16)	89 (15)	35 (6)	40 (13)
11Y2183	MPQ	10030 (9)	18.3 (3)	4.7 (18)	91 (18)	23 (5)	40 (12)
M206	M	9940 (10)	16.1 (7)	5.0 (1)	83 (5)	48 (9)	40 (8)
L206	L	9840 (11)	14.0 (16)	5.0 (1)	82 (3)	71 (11)	36 (1)
M205	M	9650 (12)	16.7 (5)	5.0 (1)	89 (17)	6 (2)	39 (6)
11Y1005	L	9620 (13)	17.9 (4)	4.9 (13)	86 (13)	1 (1)	42 (17)
M208	MB	9460 (14)	15.9 (9)	5.0 (1)	86 (11)	67 (10)	40 (8)
S102	S	8740 (15)	13.4 (17)	5.0 (1)	80 (1)	97 (16)	41 (14)
CH202	SPQ	8510 (16)	15.3 (13)	5.0 (1)	84 (6)	98 (17)	39 (3)
CH201	SPQ	8490 (17)	16.3 (6)	5.0 (1)	86 (11)	96 (15)	38 (2)
CM101	SWX	7840 (18)	15.8 (10)	5.0 (1)	82 (3)	99 (18)	39 (7)
MEAN		9830	16	4.9	85	56	40
CV		4.9	19.7	2.4	0.7	33	4.1
LSD (.05)		680		0.2	1	26	2
<i>Preliminary Lines and Varieties</i>							
14Y3088	M	11100 (1)	15.8 (23)	4.8 (33)	90 (25)	40 (26)	41 (24)
13Y3156	M	10970 (2)	18.2 (11)	4.9 (19)	90 (27)	6 (11)	39 (7)
14Y1054	L	10550 (3)	13.4 (35)	5.0 (1)	89 (17)	6 (11)	41 (19)
15Y84	LJ	10450 (4)	13.7 (34)	5.0 (1)	89 (21)	5 (10)	35 (3)
13Y3177	M	10450 (5)	17.7 (16)	4.9 (19)	86 (5)	21 (19)	44 (36)
13Y3176	M	10340 (6)	15.1 (27)	4.8 (33)	88 (10)	10 (14)	40 (14)
11Y3326	M	10330 (7)	18.3 (9)	4.9 (19)	82 (1)	55 (30)	40 (8)
11Y2182	MPQ	10320 (8)	19.4 (5)	4.8 (33)	92 (32)	3 (9)	40 (11)
10Y3737	M	10280 (9)	16.7 (20)	4.9 (19)	89 (21)	80 (33)	41 (19)
13Y3191	M	10280 (10)	17.9 (15)	4.9 (19)	87 (7)	13 (17)	40 (14)
11Y3655	M	10230 (11)	18.0 (12)	5.0 (1)	90 (27)	25 (20)	42 (29)
14Y2147	MPQ	10170 (12)	18.3 (8)	4.9 (19)	90 (27)	6 (11)	41 (24)
13Y3172	M	10130 (13)	18.0 (14)	4.9 (19)	88 (10)	30 (24)	41 (22)
14Y2160	MPQ	10060 (14)	18.6 (7)	4.9 (19)	90 (25)	35 (25)	42 (30)
13Y3146	M	10020 (15)	15.5 (25)	4.9 (19)	85 (3)	11 (15)	40 (14)
M105	M	9970 (16)	14.9 (29)	4.9 (19)	83 (2)	88 (34)	41 (28)
12Y2174	MPQ	9970 (17)	18.0 (13)	5.0 (1)	88 (10)	26 (22)	43 (32)
M202	M	9860 (18)	16.7 (19)	4.9 (19)	87 (6)	75 (32)	43 (34)
14Y1104	L	9850 (19)	19.3 (6)	5.0 (1)	88 (8)	1 (1)	40 (11)
12Y2163	MPQ	9810 (20)	16.7 (21)	4.9 (19)	92 (32)	40 (26)	41 (19)
13Y3131	M	9710 (21)	21.2 (2)	5.0 (1)	88 (10)	90 (35)	41 (22)
14Y3087	M	9620 (22)	14.3 (31)	5.0 (1)	85 (3)	70 (31)	41 (24)
12Y1022	LA	9550 (23)	16.0 (22)	5.0 (1)	89 (21)	1 (1)	42 (30)
13Y3180	M	9380 (24)	14.2 (32)	5.0 (1)	89 (21)	50 (28)	40 (11)
A202	LA	9320 (25)	18.3 (10)	5.0 (1)	88 (10)	50 (28)	40 (8)
14Y3124	M	9260 (26)	17.1 (18)	5.0 (1)	89 (17)	95 (36)	44 (35)
14Y1143	LSr	9010 (27)	14.9 (28)	5.0 (1)	90 (27)	1 (1)	36 (4)
15Y90	LJ	8620 (28)	15.8 (24)	5.0 (1)	89 (17)	1 (1)	40 (17)
A301	LA	7560 (29)	19.4 (4)	4.7 (36)	101 (35)	1 (1)	34 (2)
15Y89	LJ	7290 (30)	14.8 (30)	5.0 (1)	88 (8)	25 (20)	43 (33)
12Y2167	SPQ	7110 (31)	20.4 (3)	5.0 (1)	89 (17)	11 (15)	40 (17)
CT202	LB	6950 (32)	15.4 (26)	5.0 (1)	88 (10)	13 (17)	37 (5)
14Y1142	LB	6910 (33)	17.4 (17)	5.0 (1)	92 (31)	1 (1)	40 (8)
M402	MPQ	6630 (34)	23.7 (1)	5.0 (1)	113 (36)	1 (1)	37 (6)
15Y85	LB	6380 (35)	12.1 (36)	4.9 (19)	100 (34)	1 (1)	33 (1)
11Y106	LJ	5880 (36)	14.0 (33)	4.9 (19)	88 (10)	26 (22)	41 (24)
MEAN		9290	16.9	4.9	90	28	40
CV		5.1	12.5	2.8	0.8	65.7	3.5
LSD (.05)		960	4.3		1	37	3

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=long Basmati; J=Jasmine; MB = medium Blast resistant; 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 14. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2011-2015)

Location	Year	Calhikari					Calmati		
		201	S102	M202	M105	M205	M206	202	L206
Biggs (RES)	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
	2015	8580	10050	8570	8610	8720	9620	6790	9360
Location Mean		8236	9148	8530	8948	9646	9410	6440	9390
Butte	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
	2015	7180	8810	7550	9350	7780	9370	6370	9810
Location Mean		7894	8506	8122	9364	8868	9152	7192	9528
Colusa	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
	2015	8940	9200	9820	10500	10050	9850	6660	9940
Location Mean		7598	7876	9132	9110	9448	9686	5866	9726
Yuba	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
	2015	8490	8740	9860	9970	9650	9940	6950	9840
Location Mean		7540	8430	9068	9240	9452	9614	5952	9590
Loc/Years Mean		7817	8490	8713	9166	9354	9466	6363	9559
Yield % M202		89.7	97.4	100	105.2	107.4	108.6	73.0	109.7
Number of Tests		20	20	20	20	20	20	20	20

Table 15. 2015 Two Location Intermediate/Late Rice Variety Trials*

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain		Single Location Yields		Ave Grain	Seedling	Days to	Lodging	Plant
		Yield at 14% Moisture lbs/acre		Biggs	Glenn	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
12Y20	L	10140 (1)		9450 (8)	10830 (1)	13.8 (10)	5.0 (3)	81 (8)	1 (2)	40 (13)
12Y113	MB	9910 (2)		9680 (4)	10150 (2)	15.1 (3)	4.9 (7)	79 (4)	1 (2)	39 (11)
11Y2183	MPQ	9900 (3)		10120 (1)	9690 (5)	15.1 (2)	4.7 (13)	88 (12)	1 (1)	38 (7)
M209	M	9790 (4)		9880 (2)	9700 (4)	15.0 (4)	4.9 (7)	83 (10)	1 (2)	39 (10)
L206	L	9710 (5)		9520 (6)	9910 (3)	13.1 (12)	4.9 (7)	77 (1)	1 (7)	34 (1)
M206	M	9660 (6)		9710 (3)	9620 (6)	14.8 (8)	5.0 (4)	77 (1)	4 (9)	39 (9)
12Y3097	MB	9500 (7)		9650 (5)	9350 (10)	14.9 (5)	4.8 (12)	78 (3)	7 (10)	38 (6)
11Y1005	L	9370 (8)		9460 (7)	9270 (11)	13.3 (11)	4.9 (6)	80 (6)	1 (8)	39 (12)
M205	M	9270 (9)		9120 (9)	9420 (8)	14.9 (6)	4.9 (11)	85 (11)	1 (2)	38 (4)
M208	MB	9200 (10)		8990 (10)	9400 (9)	14.4 (9)	5.0 (2)	80 (7)	19 (12)	39 (8)
CH202	SPQ	9070 (11)		8550 (11)	9590 (7)	14.9 (7)	4.9 (10)	79 (5)	63 (13)	35 (2)
M402	MPQ	8580 (12)		8450 (12)	8710 (12)	17.0 (1)	5.0 (4)	102 (13)	1 (2)	38 (5)
CH201	SPQ	7980 (13)		7770 (13)	8180 (13)	13.0 (13)	5.0 (1)	81 (9)	8 (11)	36 (3)
MEAN		9390		9260	9530	14.6	4.9	82	8	38
CV		4.5		4.6	4.3	5.7	2.2	1.1	144.3	3.1
LSD (.05)		420		610	590	0.8	0.1	1	12	1

Preliminary Lines and Varieties

12Y2175	MPQ	10590 (1)		10670 (1)	10520 (1)	14.7 (9)	4.9 (14)	84 (9)	1 (1)	41 (17)
14Y3092	M	10190 (2)		10460 (2)	9910 (4)	14.6 (11)	5.0 (1)	87 (13)	1 (1)	41 (18)
11Y2182	MPQ	9940 (3)		9720 (5)	10160 (2)	14.9 (7)	4.9 (11)	86 (11)	12 (17)	39 (11)
13Y3129	M	9780 (4)		10080 (3)	9480 (7)	14.6 (10)	4.9 (11)	83 (7)	1 (1)	37 (5)
M401	MPQ	9740 (5)		9380 (7)	10110 (3)	21.1 (1)	4.9 (10)	107 (22)	1 (1)	41 (16)
CM203	SWX	9600 (6)		9900 (4)	9300 (9)	14.3 (13)	5.0 (1)	75 (1)	13 (18)	40 (15)
M105	M	9590 (7)		9630 (6)	9550 (6)	15.1 (6)	4.9 (19)	75 (3)	1 (1)	40 (14)
A202	LA	9350 (8)		8840 (10)	9860 (5)	14.2 (14)	5.0 (6)	79 (4)	10 (15)	37 (6)
15Y136	LJ	9310 (9)		9290 (8)	9340 (8)	13.9 (17)	5.0 (6)	82 (6)	1 (1)	39 (13)
13Y3182	M	9070 (10)		9230 (9)	8910 (11)	14.7 (8)	4.9 (19)	83 (8)	1 (1)	38 (8)
14Y1183	LJ	8650 (11)		8370 (12)	8920 (10)	15.9 (4)	5.0 (6)	91 (17)	1 (1)	39 (10)
12Y133	LJ	8400 (12)		8320 (13)	8490 (14)	15.4 (5)	4.9 (14)	93 (20)	1 (1)	36 (2)
M202	M	8350 (13)		8150 (14)	8560 (13)	14.2 (15)	5.0 (1)	80 (5)	5 (12)	39 (12)
11Y106	LJ	8280 (14)		7760 (16)	8800 (12)	14.5 (12)	4.9 (11)	88 (14)	26 (20)	38 (9)
CM101	SWX	7960 (15)		7970 (15)	7940 (16)	11.4 (22)	5.0 (1)	75 (1)	48 (21)	38 (7)
15Y135	LJ	7800 (16)		7230 (17)	8360 (15)	14.0 (16)	5.0 (1)	88 (15)	11 (16)	37 (3)
14Y156	LB	7700 (17)		8410 (11)	6990 (17)	12.9 (20)	4.9 (14)	87 (12)	8 (13)	43 (20)
14Y1172	LB	6560 (18)		6580 (19)	6550 (18)	13.5 (18)	5.0 (6)	91 (16)	24 (19)	42 (19)
13Y1055	LB	6550 (19)		6650 (18)	6460 (19)	12.5 (21)	4.7 (21)	85 (10)	9 (14)	35 (1)
14Y1090	LB	6060 (20)		6470 (20)	5660 (21)	13.2 (19)	4.7 (22)	92 (19)	1 (1)	37 (4)
KOSH	SPQ	5770 (21)		5460 (21)	6090 (20)	19.8 (2)	4.9 (14)	98 (21)	93 (22)	45 (22)
14Y19	LB	4780 (22)		5160 (22)	4410 (22)	17.5 (3)	4.9 (14)	92 (18)	1 (1)	45 (21)
MEAN		8370		8350	8380	14.9	4.9	86	12	39
CV		5.2		6	4.2	7.1	2	1.3	103	3.2
LSD (.05)		620		1040	720	1.5	0.1	2	18	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. 2015 Biggs Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield		Grain		Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture (%)	at Harvest (%)	Moisture (%)				
11Y2183	MPQ	10120 (1)	16.3 (5)	4.8 (13)	86 (12)	0 (1)	38 (10)		
M209	M	9880 (2)	16.3 (6)	4.9 (4)	79 (9)	0 (1)	38 (8)		
M206	MB	9710 (3)	16.4 (4)	4.9 (9)	74 (1)	8 (9)	37 (5)		
12Y113	MB	9680 (4)	16.4 (3)	4.9 (5)	75 (3)	0 (1)	39 (13)		
12Y3097	MB	9650 (5)	16.6 (2)	4.9 (11)	75 (2)	13 (10)	38 (9)		
L206	L	9520 (6)	13.5 (11)	4.9 (11)	76 (5)	1 (8)	33 (1)		
11Y1005	L	9460 (7)	13.4 (12)	4.9 (6)	79 (10)	0 (1)	39 (12)		
12Y20	L	9450 (8)	14.1 (10)	5.0 (3)	78 (7)	0 (1)	39 (11)		
M205	M	9120 (9)	16.2 (7)	4.9 (9)	81 (11)	0 (1)	37 (6)		
M208	M	8990 (10)	15.4 (9)	5.0 (1)	77 (6)	33 (12)	38 (7)		
CH202	SPQ	8550 (11)	15.8 (8)	4.9 (6)	75 (3)	86 (13)	34 (2)		
M402	MPQ	8450 (12)	17.4 (1)	4.9 (6)	101 (13)	0 (1)	37 (4)		
CH201	SPQ	7770 (13)	12.3 (13)	5.0 (1)	78 (7)	15 (11)	34 (3)		
MEAN		9260	15.4	4.9	80	12	37		
CV		4.6	6.6	0.8	1.3	109.1	2.7		
LSD (.05)		610	1.5	0.1	1	19	1		

Preliminary Lines and Varieties

12Y2175	MPQ	10670 (1)	16.3 (7)	4.9 (12)	79 (7)	0 (1)	41 (20)
14Y3092	M	10460 (2)	16.3 (8)	4.9 (1)	86 (12)	0 (1)	39 (16)
13Y3129	M	10080 (3)	15.9 (10)	4.9 (1)	79 (6)	0 (1)	35 (4)
CM203	SWX	9900 (4)	14.4 (19)	4.9 (1)	73 (1)	15 (16)	39 (15)
11Y2182	MPQ	9720 (5)	15.9 (10)	4.8 (17)	82 (10)	23 (19)	37 (12)
M105	M	9630 (6)	15.6 (12)	4.8 (15)	73 (1)	0 (1)	37 (11)
M401	MPQ	9380 (7)	23.4 (1)	4.8 (13)	105 (22)	0 (1)	40 (19)
15Y136	LJ	9290 (8)	15.0 (13)	4.9 (5)	80 (8)	0 (1)	38 (13)
13Y3182	M	9230 (9)	16.4 (6)	4.8 (13)	81 (9)	0 (1)	36 (8)
A202	LA	8840 (10)	14.5 (17)	4.9 (5)	77 (4)	0 (1)	37 (10)
14Y156	LB	8410 (11)	14.3 (20)	4.8 (18)	87 (14)	0 (1)	40 (17)
14Y1183	LJ	8370 (12)	16.9 (3)	4.9 (10)	90 (16)	0 (1)	35 (3)
12Y133	LJ	8320 (13)	16.7 (5)	4.9 (8)	94 (19)	0 (1)	35 (2)
M202	M	8150 (14)	14.8 (16)	4.9 (1)	77 (5)	0 (1)	38 (14)
CM101	SWX	7970 (15)	10.5 (22)	4.9 (8)	73 (1)	75 (21)	35 (4)
11Y106	LJ	7760 (16)	16.0 (9)	4.8 (15)	86 (13)	46 (20)	37 (9)
15Y135	LJ	7230 (17)	14.9 (14)	4.9 (5)	88 (15)	20 (18)	36 (6)
13Y1055	LB	6650 (18)	13.5 (21)	4.7 (21)	84 (11)	18 (17)	33 (1)
14Y1172	LB	6580 (19)	14.4 (18)	4.9 (11)	90 (16)	13 (15)	40 (18)
14Y1090	LB	6470 (20)	14.8 (15)	4.7 (21)	93 (18)	0 (1)	36 (7)
KOSH	SPQ	5460 (21)	20.5 (2)	4.8 (18)	97 (21)	93 (22)	44 (22)
14Y19	LB	5160 (22)	16.9 (4)	4.8 (18)	95 (20)	0 (1)	43 (21)
MEAN		8350	15.8	4.8	85	14	38
CV		6	6.3	0.8	1.9	91.9	2.7
LSD (.05)		1040	2.1	0.1	3	26	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.

Table 17. 2015 Glenn Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant
		Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading	(1-99)	Height (in)
12Y20	L	10830 (1)	13.4 (8)	5.0 (1)	83 (6)	1 (2)	42 (13)
12Y113	MB	10150 (2)	13.7 (5)	4.9 (8)	82 (5)	1 (2)	39 (8)
L206	L	9910 (3)	12.7 (13)	5.0 (1)	78 (1)	1 (2)	34 (1)
M209	M	9700 (4)	13.7 (4)	4.9 (8)	86 (10)	1 (2)	40 (9)
11Y2183	MPQ	9690 (5)	13.9 (3)	4.5 (13)	90 (12)	1 (1)	38 (5)
M206	MB	9620 (6)	13.3 (10)	5.0 (1)	79 (2)	1 (2)	40 (12)
CH202	SPQ	9590 (7)	14.0 (2)	4.9 (8)	83 (6)	40 (13)	36 (2)
M205	M	9420 (8)	13.6 (7)	4.9 (8)	89 (11)	1 (2)	38 (4)
M208	M	9400 (9)	13.4 (9)	5.0 (6)	84 (8)	5 (12)	40 (11)
12Y3097	MB	9350 (10)	13.2 (11)	4.7 (12)	81 (3)	1 (2)	38 (6)
11Y1005	L	9270 (11)	13.2 (12)	5.0 (7)	81 (4)	2 (11)	40 (10)
M402	MPQ	8710 (12)	16.6 (1)	5.0 (1)	104 (13)	1 (2)	39 (7)
CH201	SPQ	8180 (13)	13.7 (6)	5.0 (1)	85 (9)	1 (2)	37 (3)
MEAN		9530	13.7	4.9	85	4	38
CV		4.3	4.3	3	1	235.4	3.4
LSD (.05)		590	0.8	0.2	1	15	2

Preliminary Lines and Varieties

12Y2175	MPQ	10520 (1)	13.0 (14)	4.9 (16)	88 (11)	1 (1)	42 (13)
11Y2182	MPQ	10160 (2)	14.0 (8)	5.0 (1)	90 (16)	1 (1)	40 (8)
M401	MPQ	10110 (3)	18.8 (2)	5.0 (1)	110 (22)	1 (1)	42 (13)
14Y3092	M	9910 (4)	12.9 (16)	5.0 (1)	89 (14)	1 (1)	43 (18)
A202	LA	9860 (5)	13.8 (9)	5.0 (1)	81 (4)	20 (19)	38 (5)
M105	M	9550 (6)	14.6 (5)	4.9 (16)	78 (3)	1 (1)	42 (16)
13Y3129	M	9480 (7)	13.3 (11)	4.9 (16)	87 (9)	1 (1)	39 (6)
15Y136	LJ	9340 (8)	12.9 (17)	5.0 (1)	84 (6)	1 (1)	41 (12)
CM203	SWX	9300 (9)	14.1 (7)	5.0 (1)	77 (1)	11 (16)	42 (16)
14Y1183	LJ	8920 (10)	14.9 (4)	5.0 (1)	92 (20)	1 (1)	42 (15)
13Y3182	M	8910 (11)	13.0 (14)	4.9 (16)	86 (7)	1 (1)	40 (10)
11Y106	LJ	8800 (12)	13.1 (13)	5.0 (1)	90 (15)	6 (15)	40 (8)
M202	M	8560 (13)	13.5 (10)	5.0 (1)	83 (5)	11 (16)	41 (11)
12Y133	LJ	8490 (14)	14.2 (6)	4.9 (16)	92 (19)	1 (1)	38 (2)
15Y135	LJ	8360 (15)	13.2 (12)	5.0 (1)	88 (11)	1 (1)	38 (2)
CM101	SWX	7940 (16)	12.3 (19)	5.0 (1)	77 (1)	21 (20)	40 (7)
14Y156	LB	6990 (17)	11.5 (21)	5.0 (1)	86 (8)	16 (18)	46 (20)
14Y1172	LB	6550 (18)	12.6 (18)	5.0 (1)	91 (17)	35 (21)	43 (19)
13Y1055	LB	6460 (19)	11.5 (22)	4.8 (21)	87 (10)	1 (1)	36 (1)
KOSH	SPQ	6090 (20)	19.1 (1)	5.0 (1)	99 (21)	93 (22)	47 (21)
14Y1090	LB	5660 (21)	11.6 (20)	4.6 (22)	91 (18)	1 (1)	38 (4)
14Y19	LB	4410 (22)	18.1 (3)	5.0 (1)	88 (11)	1 (1)	48 (22)
MEAN		8380	13.9	4.9	88	10	41
CV		4.2	8.1	2.7	0.6	118	3.6
LSD (.05)		720	2.3		1	25	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. 2015 Sutter Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)					
		at 14%	Moisture lbs/acre										
11Y1005	L	6500	(1)	21.0	(13)	5.0	(4)	95	(9)	11	(3)	41	(11)
M205	M	6490	(2)	29.2	(3)	4.9	(10)	93	(5)	29	(9)	39	(8)
M208	M	6420	(3)	21.1	(12)	5.0	(3)	91	(4)	1	(1)	40	(9)
11Y2183	MPQ	6290	(4)	29.9	(2)	4.5	(13)	100	(12)	43	(11)	41	(13)
12Y20	L	5930	(5)	23.0	(9)	5.0	(4)	96	(10)	13	(4)	41	(11)
M402	MPQ	5640	(6)	24.7	(7)	5.0	(1)	107	(13)	80	(13)	41	(10)
L206	L	5370	(7)	21.1	(11)	5.0	(4)	91	(3)	4	(2)	34	(2)
M206	MB	5310	(8)	28.8	(5)	5.0	(2)	91	(2)	26	(8)	38	(6)
CH201	SPQ	5250	(9)	21.7	(10)	4.9	(9)	94	(6)	36	(10)	37	(4)
12Y3097	MB	5010	(10)	29.0	(4)	4.6	(12)	89	(1)	18	(6)	36	(3)
M209	M	4450	(11)	34.5	(1)	4.9	(10)	98	(11)	60	(12)	39	(7)
12Y113	MB	4040	(12)	27.6	(6)	5.0	(4)	95	(8)	23	(7)	37	(5)
CH202	SPQ	3250	(13)	24.0	(8)	5.0	(4)	94	(6)	17	(5)	34	(1)
MEAN		5390		25.9		4.9		95		28		38	
CV		21.5		15.3		3.5		0.9		102.6		4.7	
LSD (.05)		1660		5.7		0.2		1		41		3	

Preliminary Lines and Varieties

15Y136	LJ	7990	(1)	21.4	(20)	5.0	(1)	95	(13)	1	(1)	42	(18)
14Y1183	LJ	7740	(2)	24.8	(11)	5.0	(1)	105	(20)	1	(1)	40	(7)
14Y3092	M	7660	(3)	25.1	(8)	4.9	(13)	94	(11)	1	(1)	39	(5)
11Y2182	MPQ	7500	(4)	25.8	(6)	4.9	(13)	95	(13)	1	(1)	41	(14)
12Y133	LJ	7450	(5)	25.8	(5)	4.9	(13)	106	(22)	1	(1)	40	(11)
13Y3129	M	7420	(6)	24.2	(15)	4.9	(13)	92	(7)	15	(20)	40	(10)
15Y135	LJ	7390	(7)	21.8	(19)	5.0	(1)	100	(19)	1	(1)	40	(11)
12Y2175	MPQ	7360	(8)	26.0	(3)	5.0	(1)	93	(9)	1	(1)	41	(14)
A202	LA	6990	(9)	24.4	(12)	5.0	(1)	92	(7)	1	(1)	42	(17)
13Y3182	M	6800	(10)	25.0	(10)	4.6	(17)	91	(5)	1	(1)	39	(4)
M202	M	6770	(11)	23.6	(16)	5.0	(1)	91	(5)	1	(1)	41	(14)
CM203	SWX	5890	(12)	24.3	(14)	5.0	(1)	90	(4)	8	(19)	42	(19)
13Y1055	LB	5880	(13)	20.3	(21)	4.6	(17)	95	(13)	1	(1)	40	(7)
M105	M	5700	(14)	26.0	(4)	5.0	(1)	87	(2)	1	(1)	38	(3)
14Y156	LB	5550	(15)	22.3	(18)	4.6	(17)	94	(11)	1	(1)	44	(20)
14Y1172	LB	5000	(16)	24.3	(13)	4.6	(17)	105	(20)	1	(1)	39	(5)
11Y106	LJ	4700	(17)	23.2	(17)	4.5	(21)	93	(9)	6	(18)	38	(2)
14Y1090	LB	4320	(18)	25.3	(7)	3.9	(22)	98	(16)	1	(1)	41	(13)
14Y19	LB	4150	(19)	27.2	(2)	5.0	(1)	98	(16)	1	(1)	46	(22)
CM101	SWX	4100	(20)	20.2	(22)	5.0	(1)	88	(3)	1	(1)	40	(7)
KOSH	SPQ	3960	(21)	25.0	(9)	5.0	(1)	98	(16)	93	(22)	44	(21)
M401	MPQ	2890	(22)	35.1	(1)	5.0	(1)	78	(1)	20	(21)	29	(1)
MEAN		6050		24.3		4.8		94		7		40	
CV		16		5.4		8		10		35		8.9	
LSD (.05)		2010		2.7						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 (2011-2015)*

Location	Year	M205	M402	M202	L206
Biggs (RES)	2011	10270	9200	9160	9990
	2012	11210	10260	11090	11180
	2013	9730	9830	8700	9460
	2014	10550	10040	8870	10340
	2015	9120	8450	8150	9520
Location Mean		10176	9556	9194	10098
Glenn	2011	9550	9820	9030	8900
	2012	8220	8260	7660	7680
	2013	8400	8970	8270	8870
	2014	8910	8910	8510	8870
	2015	9420	8710	8560	9910
Location Mean		8900	8934	8406	8846
Sutter	2011	9310	8000	9010	9780
	2012	9630	9040	9690	9890
	2013	8540	6900	7890	8720
	2014	8680	7020	9030	9660
	2015	-	-	-	-
Location Mean		9040	7740	8905	9513
Loc/Years Mean		9372	8743	8835	9486
Yield % M202		106.1	99.0	100	108.5
Number of Tests		14	14	14	14

* Sutter not included in 2015 due to very high cv's and low yields.