



AGRONOMY PROGRESS REPORT

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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2017 AND MULTI-YEAR STATEWIDE RICE VARIETY TESTS IN CALIFORNIA

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University of California Cooperative Extension rice variety evaluation tests were conducted in the Sacramento Valley in 2017. This program, a cooperative effort involving the California Cooperative Rice Research Foundation, Inc. (CCRRF) 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 CCRRF 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.

A wet spring resulted in a decrease of California rice acres planted (445,000 acres) and harvested (443,000 acres) compared to 2016 (541,000 acres) planted and (536,000 acres) harvested. The estimated statewide yield was 8,410 lbs/acre, a decrease from 2016 (8,840 lbs/acre).

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 to be evaluated on a statewide basis.

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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 eight advanced breeding lines were evaluated in the advanced test at each of the following locations. The South Yolo County location was new in 2017. This trial replaced the trial in San Joaquin County and is located between Sacramento and Davis, two miles south of Interstate 80.

	Date Planted	Date Harvested
• Butte County (RES)	05/22	09/22
• Sutter County (Lauppe)	05/22	09/28
• Yolo County (Meyer)	05/16	10/8
• South Yolo County (Rehman)	05/22	10/13

Commercial varieties in the advanced test included CM203, CH202, S102, M105, M206, M208, M209, L206, and L207. Twenty-nine experimental lines and five commercial varieties (CA201, CM101, M104, M205, and A202) were evaluated in the preliminary test at each location. All advanced and preliminary experimental lines at each location were entries from the RES breeding program.

Early Maturity Group

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

	Date Planted	Date Harvested
• Butte County (RES)	05/22	09/28
• Butte County (Larrabee)	05/17	10/10
• Colusa County (Dennis)	05/03	09/19
• Yuba County (Bosworth)	05/23	10/17

The advanced test included commercial varieties CH202, S102, M105, M206, M208, M209, L206, and L207. Thirty-two preliminary lines and six commercial varieties (CH201, CM101, CM203, M104, M205 and A202) 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 four advanced lines were evaluated in the advanced test at each of the locations listed below.

	Date Planted	Date Harvested
• Butte County (RES)	05/22	09/27
• Glenn County (Wiley)	05/11	10/23
• Butte County (Schohr)	05/19	10/12

Advanced commercial varieties included S102, M105, M206, M208, M209, M402, L206, and L207. Four commercial varieties (M104, M205, M401 and A202) and eighteen 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 were water-seeded by hand at a planting rate of 150 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 of crop emergence through 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).

Variety trial harvest was completed in late October. The UCD ALMACO combine harvested most of the trials with the RES ALMACO combine harvesting the trials at the Butte County (RES) locations. Harvested areas were 155ft² (UCD ALMACO) and 140ft² (RES ALMACO). 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 four 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 (2013-2017) is presented in Table 8.

Grain yields in the advanced tests averaged 8,960 lbs/ac overall, 9,930 lbs/ac at Biggs-RES, 9,320 lbs/ac at Sutter, 8,930 lbs/ac at Yolo, and 7,650 lbs/ac at South Yolo (Tables 3-7). Over all locations, the three highest yielding entries on average were L207, long grain 14Y1006, and short grain 10Y2043 (9,880, 9,680, and 9,640 lbs/ac respectively). Other top yielding commercial varieties were CM203, M105, M206, and M209 ranked fourth, eighth, ninth, and tenth

respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 9,340 to 6,710 lbs/ac (Table 3).

The three highest yielding advanced trial entries at the cooler South Yolo County site were short grain 10Y2043, long grain 14Y1006, and S102 (9,080, 8,740, and 8,610 lbs/ac). Medium grain 16Y3020 was the highest yielding preliminary line cultivar (8,420 lbs/ac) in the South Yolo trial.

Average grain moisture at harvest, the number of days to 50% heading, and lodging percentage decreased slightly in 2017 as compared to 2016. Seedling vigor and plant height were essentially the same as in 2016.

Table 8 is a 5-year summary of very early commercial rice variety yields compared by locations and over years. Over the 5-year period and across locations, M105 was the highest yielding variety at 9,263 lbs/ac followed by M206 and M104 at 9,067 lbs/ac, and 8,907 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 and 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 (2013-2017) is found in Table 14.

Yields in the advanced line tests averaged 9,180 lbs/ac overall, 10,660 lbs/ac at the RES, 9,240 lbs/ac at Butte, 8,230 lbs/ac at Colusa, and 8,580 lbs/ac at Yuba (Tables 9-13). The three highest yielding advanced test entries were the long grain line 14Y1006, short grain line 10Y2043, and L207 (10,330, 10,000, and 9,950 lbs/ac respectively) when averaged over four locations in 2017 (Table 9). The yield of commercial varieties M209, L206, M206, and M105, ranked sixth, ninth, twelfth, and fourteenth over all locations (Table 9).

Average days to 50% heading ranged from 75 days at Biggs to 84 days at the Colusa County site. The commercial standard M206 headed at 71 days at Biggs and 83 days at Colusa. CM203 averaged 9,660 lbs/ac in the preliminary test with two experimental varieties yielding higher.

Table 14 is a 5-year summary of early commercial rice variety yields compared by locations and over years. L207 was the highest yielding commercial variety (10,200 lbs/ac) followed by M209 (9,468 lbs/ac).

SUMMARY OF THE INTERMEDIATE-LATE RICE VARIETY TESTS

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

A three location combined yield summary is given in Table 15. Agronomic performance data for individual entries at each intermediate-late location are presented in Tables 16-18. Entries are ranked by grain yield with the highest yielding entry appearing first. A 5-year yield summary of

selected intermediate-late commercial rice varieties by location and year (2013-2017) is found in Table 19.

Average yields in the advanced tests were 8,980 lbs/ac overall, 10,450 lbs/ac at the RES, 8,940 lbs/ac at Butte, and 7,550 lbs/ac at Glenn (Tables 15-17). The 2017 advanced over location average yield was 210 lbs/ac (2.3%) less than the 2016 average. The average yield at the RES and Butte locations increased 460 lbs/ac and 200 lbs/ac respectively, and decreased 1,310 lbs/ac at Glenn location compared to the 2016 season. Long grain 14Y1006 was the highest overall yielding variety (10,050 lbs/ac). L207 was the highest yielding commercial variety at 9,880 lbs/ac and fourth overall. L206 and M209 were the next highest yielding commercial varieties across locations, ranking sixth and seventh respectively (Table 15).

Average days to 50% heading decreased eight days and lodging increased to 65% compared to 2016. At 111 days, M401 required three more days than M402 to reach the 50% heading (Table 15). Seedling vigor and height were essentially the same as in 2016.

Averaged over the last 5 years and across locations, L206 is the highest yielding commercial variety at 9,524 lbs/ac. M205 and M209 yielded 9,250 lbs/ac and 9,205 lbs/ac respectively (Table 19).

ACKNOWLEDGEMENTS

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Table 1. Characteristics of Public California Rice Varieties-2017

CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2017					
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-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.
M-209 ^{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					
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.
L-207 ^{6,7}	Early	2018	4.8	4.6	It has shown significant advantages over L-206 in yield potential and milling. Taller plants and head four days later than L-206. Not adapted to cold regions.
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 ^{6,6,7}	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 ^{6,6,7}	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 Rices⁸					
Calmochi-101 ⁶	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 ^{6,6,7}	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 ^{6,6,7}	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.
A-202 ^{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 in the Plant Variety Protection Act and only to be sold as a class of certified seed. ⁷ Utility Patent		
January 2017					

Table 2. 2017 Weather Data - Daily Maximums and Minimums (°F)

	Sutter (Very Early)		Yolo (Very Early)		South Yolo (Very Early)		Butte (Early)		Colusa (Early)		Yuba (Early)		Butte (Intermediate/Late)		Glenn (Intermediate/Late)	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May 01																
May 02																
May 03									76	93						
May 04									64	91						
May 05									57	81						
May 06									52	71						
May 07									58	79						
May 08									53	85						
May 09									59	92						
May 10									58	78						
May 11									51	73					56	76
May 12									50	70					49	69
May 13									49	69					46	69
May 14									52	72					49	72
May 15									53	79					51	79
May 16			56	87					53	69					54	69
May 17			49	74			65	77	51	75					47	76
May 18			51	82			54	83	55	83					54	84
May 19			56	89			56	90	60	90					57	89
May 20			60	93			61	93	65	91			68	100	58	93
May 21			61	94			66	94	69	93			65	93	67	94
May 22	76	95	64	97	68	97	68	95	69	96			67	96	66	95
May 23	64	98	62	98	58	98	69	96	71	96	78	96	69	98	67	96
May 24	58	80	57	89	54	84	65	86	62	88	64	85	64	90	64	88
May 25	54	71	55	75	54	73	55	74	56	76	56	72	55	75	55	76
May 26	54	70	53	74	53	71	54	75	55	75	55	72	54	75	56	75
May 27	55	79	53	82	52	80	57	79	57	81	57	79	56	82	58	81
May 28	57	85	55	88	53	86	60	86	60	86	59	87	60	88	62	87
May 29	58	83	57	87	54	83	64	87	62	85	62	87	62	88	64	87
May 30	56	77	56	83	54	79	60	80	59	79	59	80	58	80	61	80
May 31	57	79	58	80	56	81	58	78	59	77	57	80	57	79	60	77
Jun 01	60	85	59	85	56	86	62	84	61	83	61	84	61	84	62	84
Jun 02	60	89	61	90	57	91	65	89	65	88	63	89	61	90	65	88
Jun 03	63	88	63	88	59	89	68	87	66	85	66	88	67	88	69	87
Jun 04	59	85	58	88	55	87	62	87	61	85	62	87	61	88	62	87
Jun 05	56	90	59	89	52	91	64	89	64	87	62	90	56	90	65	89
Jun 06	61	89	60	91	54	90	67	89	65	86	64	90	66	91	66	88
Jun 07	59	79	57	82	55	82	63	81	61	79	62	81	62	83	62	82
Jun 08	53	69	53	67	56	71	54	67	54	67	51	68	52	67	54	69
Jun 09	58	75	61	76	54	77	59	77	58	76	60	75	57	79	59	78
Jun 10	51	75	52	75	47	76	54	73	54	72	53	74	52	76	53	73
Jun 11	52	68	53	66	47	67	54	67	53	66	55	67	53	68	53	67
Jun 12	52	73	51	73	48	74	54	71	50	72	55	72	52	72	49	72
Jun 13	56	83	56	82	52	83	59	82	55	80	57	82	57	82	56	80
Jun 14	59	89	61	88	55	90	62	87	60	88	60	89	58	88	62	86
Jun 15	61	91	61	92	56	91	67	90	63	90	64	90	64	89	64	89
Jun 16	71	96	72	94	65	96	70	93	67	93	68	95	68	93	70	92
Jun 17	73	95	71	92	68	94	71	91	69	95	72	94	71	93	70	94
Jun 18	73	100	76	103	76	100	77	99	79	102	73	101	78	103	81	102
Jun 19	76	99	73	101	71	102	76	98	75	99	77	102	74	103	75	99
Jun 20	72	99	70	100	66	101	77	99	76	98	77	102	74	102	77	98
Jun 21	69	102	68	106	63	99	76	99	77	99	76	103	74	102	76	100
Jun 22	76	98	77	102	72	101	76	93	78	97	75	99	79	100	77	99
Jun 23	68	95	67	97	65	96	72	96	70	95	72	98	70	99	69	97
Jun 24	63	90	64	95	59	92	71	93	69	93	69	94	71	96	70	95
Jun 25	61	84	61	89	58	85	68	88	65	88	66	90	68	92	67	90
Jun 26	57	80	58	85	56	82	59	83	59	82	60	83	60	87	58	84
Jun 27	57	83	58	86	55	84	59	87	58	84	58	86	59	87	57	84
Jun 28	57	85	59	88	55	87	60	88	60	85	58	89	61	88	60	86
Jun 29	58	89	59	90	55	90	65	92	63	89	61	93	64	92	63	89
Jun 30	58	87	58	90	55	90	63	90	61	88	62	90	63	91	63	89
Jul 01	57	86	58	87	55	88	62	89	61	87	62	89	62	91	63	86
Jul 02	59	87	60	90	55	90	68	91	64	89	66	91	66	94	67	89
Jul 03	60	85	59	88	57	88	64	87	62	87	66	88	63	90	63	87
Jul 04	60	88	60	89	55	90	64	91	63	87	63	91	60	96	64	88
Jul 05	59	85	60	85	54	89	63	88	62	87	64	90	62	89	61	88
Jul 06	62	95	61	92	56	96	64	95	63	96	65	98	58	95	63	92
Jul 07	64	95	64	95	61	98	68	100	66	105	67	98	67	99	67	98
Jul 08	67	94	65	93	61	97	65	95	65	93	68	97	63	96	65	93
Jul 09	63	91	61	92	58	94	65	93	63	95	66	96	64	95	64	90
Jul 10	62	89	62	90	58	90	63	93	65	90	64	90	64	93	65	89
Jul 11	62	85	61	88	57	87	64	90	64	88	65	88	65	89	65	86
Jul 12	59	88	60	89	56	89	64	91	63	88	62	90	63	87	63	87
Jul 13	60	87	61	88	57	89	64	90	63	88	64	91	63	89	63	87
Jul 14	61	89	60	90	56	90	65	92	64	89	64	94	65	92	66	89
Jul 15	62	93	60	94	56	96	65	98	65	97	63	100	65	95	66	91
Jul 16	69	99	67	96	64	98	65	99	67	97	67	103	66	97	66	94
Jul 17	65	90	65	92	60	93	65	90	66	90	66	93	67	97	63	90
Jul 18	61	81	58	87	56	83	60	83	60	86	62	85	63	84	60	85
Jul 19	58	90	58	87	53	89	58	90	62	89	57	96	55	87	60	86
Jul 20	59	89	58	88	56	89	62	90	61	90	59	98	61	89	60	86
Jul 21	61	91	59	93	56	92	63	92	63	93	62	99	63	96	63	88
Jul 22	61	95	60	101	55	96	64	97	65	95	64	98	64	92	63	89
Jul 23	65	98	65	97	62	95	66	99	67	95	66	102	67	94	65	91
Jul 24	62	84	62	89	59	85	64	94	65	90	64	88	65	91	64	87
Jul 25	60	91	60	91	56	88	61	92	63	91	61	96	62	93	61	87
Jul 26	59	96	60	93	56	90	62	94	63	93	62	97	62	92	62	90
Jul 27	62	98	61	94	57	95	64	100	65	95	63	100	64	94	65	93
Jul 28	62	94	63	94	60	91	65	96	65	95	64	99	65	94	65	91
Jul 29	60	92	58	95	55	88	62	95	62	94	61	99	62	97	61	89
Jul 30	59	96	59	94	53	90	63	95	64	95	63	97	63	95	63	90
Jul 31	60	100	60	96	57	93	65	94	66	94	64	97	66	93	66	90
Aug 01	64	93	64	94	58	95	67	95	67	95	65	97	68	94	68	93
Aug 02	67	93	66	94	62	94	69	95	68	96	70	94	69	96	70	94
Aug 03	68	91	66	92	68	94	67	97	68	95	69	94	68	93	68	93
Aug 04	68	87	67	88	68	83	68	88	67	88	67	92	68	90	67	88
Aug 05	65	88	66	88	62	88	69	87	68	89	69	89	70	89	67	87
Aug 06	60	84	60	88	58	84	65	85	63	88	64	86	64	85	64	85
Aug 07	60	87	59	89	57	87	62	89	61	90	61	91	61	88	61	88
Aug 08	60	87	60	89	57	88	64	89	62	90	62	92	63	89	63	88
Aug 09	59	85	59	89	57	85	63	88	61	90	61	91	62	89	62	87
Aug 10	59															

Table 2. 2017 Weather Data - Daily Maximums and Minimums (°F)

	Sutter (Very Early)		Yolo (Very Early)		South Yolo (Very Early)		Butte (Early)		Colusa (Early)		Yuba (Early)		Butte (Intermediate/Late)		Glenn (Intermediate/Late)		
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	
Sep 01	62	95	61	96	61	96	61	97	60	100	59	95	60	96	61	100	Oct 01
Sep 02	62	99	63	99	63	100	63	99	63	99	62	105	63	100	63	97	Oct 02
Sep 03	65	96	65	94	66	96	64	102	64	98	63	103	65	97	66	98	Oct 03
Sep 04	65	90	65	93	65	90	67	95	66	95	68	92	67	94	66	92	Oct 04
Sep 05	66	88	65	88	67	90	65	86	64	89	66	86	67	85	66	87	Oct 05
Sep 06	65	88	65	91	64	91	65	90	65	92	65	91	66	89	66	90	Oct 06
Sep 07	61	76	63	78	61	76	64	78	63	81	62	78	64	80	63	81	Oct 07
Sep 08	57	85	59	86	57	87	59	85	58	88	58	87	59	87	61	85	Oct 08
Sep 09	58	90	58	90	59	92	60	90	60	93	58	90	59	90	62	91	Oct 09
Sep 10	60	92	60	93	61	92	61	95	60	97	59	93	62	94	62	96	Oct 10
Sep 11	62	94	64	94	64	94	63	94	62	95	62	94	65	92	64	91	Oct 11
Sep 12	63	92	62	93	64	93	64	90	64	94	63	93	65	91	64	89	Oct 12
Sep 13	62	80	62	85	63	81	64	82	63	87	64	83	64	83	64	84	Oct 13
Sep 14	57	75	58	76	60	77	60	73	58	75	59	75	61	74	59	74	Oct 14
Sep 15	53	83	54	83	54	81	56	83	56	86	54	83	58	83	58	83	Oct 15
Sep 16	54	84	51	84	53	83	51	84	50	86	52	85	52	84	53	85	Oct 16
Sep 17	52	84	50	84	53	84	52	83	50	86	50	86	52	84	52	82	Oct 17
Sep 18	56	82	52	83	56	82	55	81	53	82	56	80	59	81	55	80	Oct 18
Sep 19	49	76	48	78	51	75	49	76	52	55	48	76	48	77	50	77	Oct 19
Sep 20	52	77	53	77	53	79	53	78			52	78	53	77	52	80	Oct 20
Sep 21	48	73	45	74	47	73	44	73			44	72	46	72	45	73	Oct 21
Sep 22	47	74	45	75	48	73	46	76			46	75	46	73	47	76	Oct 22
Sep 23	46	78	47	77	47	75	44	77			43	77	45	76	47	76	Oct 23
Sep 24	43	82	46	81	46	79	44	80			43	81	47	80	49	79	Oct 24
Sep 25	46	86	48	85	46	82	48	84			43	85	47	83	48	83	Oct 25
Sep 26	48	91	53	88	50	87	51	88			49	91	53	87	56	85	Oct 26
Sep 27	46	91	49	91	49	89	50	90			46	90	48	89	50	90	Oct 27
Sep 28	49	69	47	88	48	89	50	89			50	90	50	88	49	85	Oct 28
Sep 29			48	84	54	85	50	81			51	83	50	81	52	80	Oct 29
Sep 30			49	85	53	82	49	83			48	83	51	83	51	81	Oct 30
																	Oct 31

Table 3. 2017 Four Location Very Early Rice Variety Trials

Advanced Lines and Varieties

		Single Location Yields																
		Over All Ave Grain Yield at 14% Moisture lbs/ac		Biggs		Sutter		Yolo		South Yolo		Grain Moisture at Harvest		Seedling Vigor	Days to 50% Heading	Lodging (1-99)	Plant Height (in)	
Variety	Grain Type	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	(%)	(1-5)			
L207	L	9880	1	10490	5	10200	1	10500	1	8340	5	15.4	4.8	81	4	39.0		
14Y1006	L	9680	2	11010	2	10060	4	8890	8	8740	2	16.2	4.8	78	16	36.2		
10Y2043	S	9640	3	10720	4	10000	5	8760	10	9080	1	16.1	4.8	80	25	34.3		
CM203	SWX	9510	4	10410	6	10120	3	9610	2	7890	7	17.6	4.8	81	26	37.7		
12Y2175	MPQ	9270	5	11830	1	10120	2	8390	14	6740	16	17.7	4.7	85	13	37.7		
15Y2031	SWX	9060	6	10390	7	9900	6	8850	9	7110	11	17.9	4.8	82	14	37.5		
15Y84	A	9010	7	10810	3	8620	15	9560	3	7050	12	15.3	4.8	86	3	33.8		
M105	M	8950	8	9270	13	9380	8	8550	12	8590	4	16.0	4.8	77	26	37.1		
M206	M	8840	9	9680	11	9240	10	8890	7	7530	9	17.1	4.8	81	20	37.1		
M209	M	8840	10	10150	8	8790	13	9130	6	7280	10	17.9	4.8	86	6	36.5		
12Y3097	MB	8780	11	9910	9	9750	7	8530	13	6920	14	17.1	4.8	81	23	37.4		
S102	S	8750	12	9260	14	8770	14	8360	16	8610	3	14.0	4.8	78	27	36.2		
L206	L	8630	13	9850	10	8580	16	9250	4	6860	15	15.6	4.7	81	6	33.9		
M208	MB	8450	14	9340	12	9130	11	8380	15	6940	13	16.8	4.8	84	18	38.5		
15Y2024	SPQ	8420	15	8450	16	8840	12	8710	11	7670	8	16.5	4.8	83	14	34.3		
17Y13	MH	8390	16	9250	15	9320	9	8320	17	6660	17	16.8	4.8	81	12	35.9		
CH202	SPQ	8240	17	8070	17	7640	17	9210	5	8050	6	16.0	4.8	82	41	34.3		
MEAN		8960		9930		9320		8930		7650		16.5	4.8	82	17	36.3		
CV		5.5		6.0		3.4		6.3		5.9		5.4	1.6	1.5	72.9	4.5		
LSD (.05)		975		844		451		802		642		2.2	0.1	3	19	1.5		

Preliminary Lines and Varieties

16Y1007	SR	9340	1	9290	10	10150	2	10060	3	7850	10	15.0	4.8	83	8	37.9
16Y3019	M	9280	2	10380	2	9890	8	9610	7	7250	24	16.7	4.8	80	12	38.2
15Y2100	SLA	9250	3	10670	1	8850	23	9300	13	8170	6	15.6	4.8	84	13	37.2
16Y2028	SLA	9110	4	9950	5	11100	1	7560	32	7840	11	15.6	4.7	82	30	38.2
16Y2085	S	9010	5	9470	7	8820	25	9910	5	7820	12	15.8	4.8	82	2	34.0
16Y2009	S	9000	6	9620	6	8990	20	9440	8	7960	7	16.0	4.8	81	54	39.1
16Y1015	L	8980	7	8740	18	10070	3	8910	18	8180	5	15.3	4.8	80	21	38.6
15Y1027	L	8940	8	7800	33	9920	6	10180	2	7870	9	15.3	4.8	79	3	39.1
M104	M	8930	9	8790	17	9030	19	9670	6	8240	3	14.5	4.8	76	24	36.1
16Y1020	L	8930	10	8300	24	9750	11	10190	1	7470	18	15.1	4.8	82	50	39.7
16Y3048	M	8890	11	8420	23	10040	4	9330	11	7800	13	15.8	4.8	81	16	39.0
16Y2052	SWX	8890	12	9210	11	9910	7	8560	24	7870	8	16.2	4.8	81	32	34.8
16Y3020	M	8840	13	8050	30	9560	13	9320	12	8420	2	15.1	4.8	79	18	37.7
14Y3032	M	8790	14	8240	27	10030	5	9380	10	7520	16	15.5	4.8	79	23	36.2
14Y3143	MSR	8760	15	10330	3	9260	17	8270	28	7170	26	16.8	4.8	81	7	39.3
16Y3016	M	8720	16	8640	21	9360	15	8660	23	8210	4	15.8	4.8	76	18	36.6
16Y2091	S	8700	17	8890	16	9220	18	9170	15	7510	17	15.3	4.8	83	14	35.8
13Y3152	M	8660	18	9470	8	8970	21	8830	19	7370	22	15.8	4.8	83	8	36.6
15Y3036	M	8630	19	10200	4	8600	27	8320	27	7390	21	15.1	4.8	83	23	36.2
16Y3010	M	8550	20	9130	13	8230	31	9270	14	7560	14	18.0	4.8	84	2	34.5
16Y3011	M	8450	21	8050	31	9280	16	9060	16	7430	19	16.0	4.8	78	16	37.7
14Y3035	M	8440	22	8930	14	9780	10	8690	21	6350	31	17.5	4.9	84	19	38.5
13Y3030	M	8410	23	8250	26	9840	9	8330	26	7230	25	15.3	4.8	79	16	37.1
16Y1192	L	8360	24	8720	19	8890	22	8690	22	7130	28	15.3	4.8	84	4	38.3
14Y3099	MB	8330	25	8910	15	9690	12	8050	30	6650	30	15.7	4.8	81	10	35.8
16Y2058	BG	8310	26	9190	12	8430	29	8060	29	7550	15	16.3	4.7	83	14	37.5
16Y2127	SPQ	8300	27	8280	25	8730	26	8780	20	7420	20	16.6	4.8	83	17	35.7
M205	M	8300	28	9430	9	8100	32	8390	25	7280	23	17.3	4.8	87	2	35.4
16Y3045	MB	8280	29	8490	22	9480	14	9010	17	6130	33	16.2	4.8	82	2	35.6
16Y1013	L	8170	30	8650	20	8590	28	10020	4	5410	34	15.6	4.8	81	1	33.9
A202	A	8100	31	7890	32	8820	24	9410	9	6260	32	16.8	4.8	85	2	37.6
CM101	SWX	7940	32	8140	28	7250	33	7790	31	8570	1	14.6	4.8	79	24	35.1
89Y235	BG	7650	33	8090	29	8340	30	6990	34	7170	27	14.6	4.6	81	35	36.3
CA201	SLA	6710	34	5990	34	6650	34	7350	33	6870	29	15.3	4.8	82	25	34.8
MEAN		8590		8840		9160		8900		7440		15.8	4.8	81	17	36.9
CV		7.8		9.7		6.4		5.7		9.1		7.4	1.1	1.9	93.0	4.0
LSD (.05)		1043		1743		1188		1034		1380		2.0	0.1	3.0	23.7	2.1

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

LBL = long grain blast resistant; MB = medium blast resistant; SR stem rot resistant; SLA = short grain 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.

Table 4. 2017 Biggs Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
12Y2175	MPQ	11830	1	22.8	4.7	82	20	41.9
14Y1006	L	11010	2	16.5	4.9	69	15	38.1
15Y84	A	10810	3	15.4	4.9	75	3	36.6
10Y2043	S	10720	4	16.6	4.9	73	28	36.6
L207	L	10490	5	15.3	4.9	73	8	42.6
CM203	SWX	10410	6	19.5	4.9	72	33	40.2
15Y2031	SWX	10390	7	18.4	4.8	74	25	39.6
M209	M	10150	8	21.0	4.9	77	13	40.1
12Y3097	MB	9910	9	20.0	4.9	71	38	40.1
L206	L	9850	10	14.9	4.8	70	13	34.9
M206	M	9680	11	20.6	4.9	70	40	40.5
M208	MB	9340	12	17.4	4.9	71	30	41.1
M105	M	9270	13	18.5	4.9	67	25	40.1
S102	S	9260	14	12.0	4.9	72	23	38.8
17Y13	MH	9250	15	19.2	4.9	70	25	37.5
15Y2024	SPQ	8450	16	15.6	4.8	74	15	35.1
CH202	SPQ	8070	17	17.2	4.8	72	53	35.7
MEAN		9930		17.7	4.9	72	24	38.8
CV		6.0		7.1	0.3	1.8	57.5	4.8
LSD (.05)		844		1.8	0.1	1.9	19	6.7

Preliminary Lines and Varieties

15Y2100	SLA	10670	1	17.1	4.9	80	5	40.4
16Y3019	M	10380	2	18.7	4.9	69	15	39.4
14Y3143	MSR	10330	3	19.1	4.9	74	20	42.3
15Y3036	M	10200	4	17.4	4.9	71	20	38.2
16Y2028	SLA	9950	5	16.3	4.8	76	30	39.0
16Y2009	S	9620	6	18.2	4.9	73	60	42.1
16Y2085	S	9470	7	16.1	4.9	73	0	35.2
13Y3152	M	9470	8	17.2	4.9	73	5	38.2
M205	M	9430	9	20.0	4.9	79	5	37.4
16Y1007	SR	9290	10	15.2	4.9	72	0	38.2
16Y2052	SWX	9210	11	19.0	4.9	73	45	36.8
16Y2058	BG	9190	12	18.2	4.7	77	30	40.6
16Y3010	M	9130	13	20.8	4.9	75	0	35.4
14Y3035	M	8930	14	18.7	4.9	75	25	41.5
14Y3099	MB	8910	15	15.9	5.0	69	10	36.2
16Y2091	S	8890	16	17.6	4.9	74	5	36.4
M104	M	8790	17	15.7	4.9	64	25	36.0
16Y1015	L	8740	18	15.1	4.9	69	0	37.6
16Y1192	L	8720	19	15.3	4.9	75	5	39.8
16Y1013	L	8650	20	14.3	4.8	70	0	31.9
16Y3016	M	8640	21	18.3	4.9	66	15	37.6
16Y3045	MB	8490	22	18.9	5.0	71	0	36.4
16Y3048	M	8420	23	16.2	4.9	68	15	38.8
16Y1020	L	8300	24	15.3	5.0	70	20	40.2
16Y2127	SPQ	8280	25	16.8	4.9	77	5	33.9
13Y3030	M	8250	26	16.4	4.9	67	10	37.8
14Y3032	M	8240	27	16.6	4.9	66	10	36.6
CM101	SWX	8140	28	14.4	4.9	72	35	37.6
89Y235	BG	8090	29	16.5	4.7	76	55	40.2
16Y3020	M	8050	30	16.5	5.0	66	10	39.4
16Y3011	M	8050	31	17.3	4.9	66	30	40.0
A202	A	7890	32	15.6	4.9	72	5	39.2
15Y1027	L	7800	33	14.3	4.9	68	0	40.9
CA201	SLA	5990	34	14.9	4.9	73	20	36.8
MEAN		8840		16.9	4.9	72	16	38.2
CV		9.7		7.1	0.7	2.0	63.7	4.2
LSD (.05)		1743		2.4	0.1	3.0	20.4	8.3

S = short; M = medium; L = long; BG = bold grain; PQ = premium quality; WX = waxy; LA = long grain aromatic; LBL = long grain blast resistant; MB = medium blast resistant; SR stem rot resistant; SLA = short grain 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.

Table 5. 2017 Sutter Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
L207	L	10200	1	17.4	4.7	81	4	38.1
12Y2175	MPQ	10120	2	16.4	4.7	81	25	36.1
CM203	SWX	10120	3	18.5	4.8	80	51	36.1
14Y1006	L	10060	4	18.4	4.8	78	46	35.5
10Y2043	S	10000	5	18.2	4.7	80	63	34.4
15Y2031	SWX	9900	6	18.7	4.8	81	23	37.8
12Y3097	MB	9750	7	16.6	4.9	79	49	37.0
M105	M	9380	8	17.3	4.9	75	78	35.5
17Y13	MH	9320	9	16.6	4.8	79	20	35.2
M206	M	9240	10	16.0	4.9	79	31	35.8
M208	MB	9130	11	17.5	4.7	84	33	37.2
15Y2024	SPQ	8840	12	18.7	4.8	83	38	33.5
M209	M	8790	13	16.7	4.8	82	3	33.3
S102	S	8770	14	17.2	4.8	78	76	36.4
15Y84	A	8620	15	16.7	4.7	85	6	32.7
L206	L	8580	16	18.0	4.7	81	3	33.7
CH202	SPQ	7640	17	18.4	4.8	82	90	33.4
MEAN		9320		17.5	4.8	80	38	35.4
CV		3.4		3.4	0.1	1.2	50.1	4.2
LSD (.05)		451		0.9	0.1	1.4	26.7	5.4

Preliminary Lines and Varieties

16Y2028	SLA	11100	1	16.8	4.8	81	78	40.6
16Y1007	SR	10150	2	17.7	4.8	83	5	39.0
16Y1015	L	10070	3	18.2	4.7	78	45	39.4
16Y3048	M	10040	4	16.9	4.8	80	21	39.4
14Y3032	M	10030	5	15.9	4.8	77	55	35.6
15Y1027	L	9920	6	18.8	4.7	78	8	38.8
16Y2052	SWX	9910	7	17.0	4.9	80	78	34.8
16Y3019	M	9890	8	16.5	4.8	79	33	38.6
13Y3030	M	9840	9	17.1	4.8	78	53	38.4
14Y3035	M	9780	10	16.6	5.0	81	33	35.6
16Y1020	L	9750	11	18.1	4.7	83	38	37.6
14Y3099	MB	9690	12	17.4	4.8	80	23	36.6
16Y3020	M	9560	13	15.9	4.8	79	48	36.2
16Y3045	MB	9480	14	16.1	4.8	81	3	34.3
16Y3016	M	9360	15	15.9	4.9	76	55	35.6
16Y3011	M	9280	16	16.6	4.9	75	33	36.4
14Y3143	MSR	9260	17	16.8	4.8	80	3	37.4
16Y2091	S	9220	18	18.9	4.8	79	10	36.8
M104	M	9030	19	16.9	4.9	75	68	35.8
16Y2009	S	8990	20	17.0	4.9	78	95	37.2
13Y3152	M	8970	21	15.6	4.9	82	1	34.8
16Y1192	L	8890	22	19.0	4.8	80	11	39.0
15Y2100	SLA	8850	23	17.6	4.7	84	45	36.8
A202	A	8820	24	17.8	4.8	83	1	37.0
16Y2085	S	8820	25	18.4	4.8	82	1	33.9
16Y2127	SPQ	8730	26	17.9	4.8	81	38	34.4
15Y3036	M	8600	27	16.2	4.8	81	45	35.2
16Y1013	L	8590	28	18.8	4.8	80	1	34.1
16Y2058	BG	8430	29	17.8	4.7	83	13	38.0
89Y235	BG	8340	30	16.5	4.6	80	80	36.4
16Y3010	M	8230	31	17.1	4.8	80	6	32.9
M205	M	8100	32	17.2	4.7	84	1	34.6
CM101	SWX	7250	33	17.9	4.8	78	58	33.7
CA201	SLA	6650	34	18.4	4.8	82	78	32.5
MEAN		9160		17.3	4.8	80	34	36.4
CV		6.4		4.0	0.0	1.8	65.1	4.0
LSD (.05)		1188		1.4	0.1	2.9	45.0	7.5

S = short; M = medium; L = long; BG = bold grain; PQ = premium quality; WX = waxy; LA = long grain aromatic; LBL = long grain blast resistant; MB = medium blast resistant; SR stem rot resistant; SLA = short grain 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.

Table 6. 2017 Yolo Very Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
L207	L	10500	1	15.3	4.8	83	1	41.8
CM203	SWX	9610	2	16.7	4.8	80	1	39.2
15Y84	A	9560	3	14.7	4.9	86	1	35.7
L206	L	9250	4	14.3	4.7	80	6	36.3
CH202	SPQ	9210	5	13.5	4.8	80	5	35.0
M209	M	9130	6	17.8	4.7	85	1	38.9
M206	M	8890	7	17.6	4.8	82	1	38.4
14Y1006	L	8890	8	16.2	4.6	81	1	39.0
15Y2031	SWX	8850	9	17.2	4.7	81	1	38.0
10Y2043	S	8760	10	14.7	4.8	79	3	35.0
15Y2024	SPQ	8710	11	14.6	4.8	81	1	36.1
M105	M	8550	12	15.0	4.7	79	1	37.4
12Y3097	MB	8530	13	17.0	4.7	82	1	38.0
12Y2175	MPQ	8390	14	16.4	4.6	83	1	38.2
M208	MB	8380	15	16.0	4.7	83	1	40.3
S102	S	8360	16	13.4	4.8	78	1	35.8
17Y13	MH	8320	17	17.0	4.8	82	1	37.4
MEAN		8930		15.7	4.7	81	2	37.7
CV		6.3		4.6	2.3	1.2	148.7	4.2
LSD (.05)		802		1.0	0.2	1.4	3.4	5.7

Preliminary Lines and Varieties

16Y1020	L	10190	1	15.0	4.9	83	93	44.7
15Y1027	L	10180	2	15.2	4.7	83	3	42.5
16Y1007	SR	10060	3	14.7	4.8	82	1	39.2
16Y1013	L	10020	4	15.3	4.8	82	1	38.6
16Y2085	S	9910	5	14.4	4.7	81	1	36.2
M104	M	9670	6	12.8	4.8	76	1	37.4
16Y3019	M	9610	7	17.0	4.8	81	1	38.8
16Y2009	S	9440	8	16.0	4.9	82	50	42.3
A202	A	9410	9	15.2	4.8	84	1	40.7
14Y3032	M	9380	10	14.3	4.7	80	1	38.6
16Y3048	M	9330	11	16.5	4.7	82	3	40.2
16Y3020	M	9320	12	14.5	4.8	81	1	39.0
15Y2100	SLA	9300	13	14.4	4.8	82	1	38.6
16Y3010	M	9270	14	18.1	4.7	82	1	38.0
16Y2091	S	9170	15	10.4	4.8	84	1	37.4
16Y3011	M	9060	16	14.3	4.8	79	1	39.8
16Y3045	MB	9010	17	15.7	4.8	81	1	37.4
16Y1015	L	8910	18	16.2	4.8	83	13	41.7
13Y3152	M	8830	19	17.1	4.8	83	1	37.8
16Y2127	SPQ	8780	20	15.7	4.7	80	1	37.8
14Y3035	M	8690	21	19.1	4.8	84	15	42.3
16Y1192	L	8690	22	15.6	4.7	85	1	39.8
16Y3016	M	8660	23	15.1	4.7	78	1	37.4
16Y2052	SWX	8560	24	15.5	4.8	79	3	37.2
M205	M	8390	25	16.7	4.7	86	1	39.0
13Y3030	M	8330	26	15.2	4.7	79	1	37.4
15Y3036	M	8320	27	14.6	4.8	83	1	37.6
14Y3143	MSR	8270	28	15.7	4.8	81	1	40.2
16Y2058	BG	8060	29	14.0	4.6	82	1	37.6
14Y3099	MB	8050	30	14.1	4.8	82	6	38.0
CM101	SWX	7790	31	12.9	4.8	78	1	36.0
16Y2028	SLA	7560	32	14.9	4.8	81	1	38.2
CA201	SLA	7350	33	12.6	4.9	82	1	35.6
89Y235	BG	6990	34	12.9	4.6	81	1	36.2
MEAN		8900		15.1	4.7	81	6	38.8
CV		5.7		9.7	0.4	0.9	114.2	3.2
LSD (.05)		1034		3.0	0.1	1.5	14.4	6.5

S = short; M = medium; L = long; BG = bold grain; PQ = premium quality; WX = waxy; LA = long grain aromatic; LBL = long grain blast resistant; MB = medium blast resistant; SR stem rot resistant; SLA = short grain 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.

Table 7. 2017 South Yolo Very Early Rice Variety Trials

<i>Advanced Lines and Varieties</i>									
Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac			Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank	Rank					
10Y2043	S	9080	1		14.8	4.8	90	7	31.0
14Y1006	L	8740	2		13.5	4.9	84	1	32.1
S102	S	8610	3		13.2	4.8	84	7	33.7
M105	M	8590	4		13.3	4.8	87	1	35.3
L207	L	8340	5		13.5	4.8	88	3	33.3
CH202	SPQ	8050	6		14.8	4.8	93	17	32.9
CM203	SWX	7890	7		15.7	4.8	93	19	35.3
15Y2024	SPQ	7670	8		17.2	4.8	93	1	32.4
M206	M	7530	9		14.0	4.8	92	7	33.6
M209	M	7280	10		16.2	4.8	98	7	34.0
15Y2031	SWX	7110	11		17.3	4.8	93	8	34.4
15Y84	A	7050	12		14.2	4.8	97	1	30.2
M208	MB	6940	13		16.4	4.8	98	7	35.4
12Y3097	MB	6920	14		14.8	4.8	92	6	34.4
L206	L	6860	15		15.1	4.8	93	1	30.5
12Y2175	MPQ	6740	16		15.1	4.7	96	7	34.4
17Y13	MH	6660	17		14.3	4.8	93	1	33.4
MEAN		7650			14.9	4.8	92	6	33.3
CV		5.9			5.6	0.0	1.6	152.5	4.6
LSD (.05)		642			1.2	0.1	2.1	12.9	5.5

Preliminary Lines and Varieties

CM101	SWX	8570	1		13.1	4.7	88	3	33.3
16Y3020	M	8420	2		13.7	4.8	92	13	36.4
M104	M	8240	3		12.7	4.8	91	1	35.2
16Y3016	M	8210	4		13.9	4.9	87	1	35.6
16Y1015	L	8180	5		11.8	4.8	92	28	35.8
15Y2100	SLA	8170	6		13.3	4.8	93	1	32.9
16Y2009	S	7960	7		12.9	4.8	91	13	34.8
16Y2052	SWX	7870	8		13.5	4.7	93	3	30.3
15Y1027	L	7870	9		13.0	4.8	89	3	34.1
16Y1007	SR	7850	10		12.5	4.7	97	26	35.2
16Y2028	SLA	7840	11		14.3	4.6	91	13	35.2
16Y2085	S	7820	12		14.3	4.8	94	8	30.7
16Y3048	M	7800	13		13.4	4.8	94	26	37.6
16Y3010	M	7560	14		16.2	4.7	99	3	31.7
16Y2058	BG	7550	15		15.1	4.7	92	13	33.7
14Y3032	M	7520	16		15.0	4.8	93	26	33.9
16Y2091	S	7510	17		14.3	4.7	95	38	32.5
16Y1020	L	7470	18		12.1	4.8	93	50	36.2
16Y3011	M	7430	19		15.6	4.8	91	1	34.8
16Y2127	SPQ	7420	20		16.0	4.7	93	26	36.6
15Y3036	M	7390	21		12.0	4.7	99	26	33.7
13Y3152	M	7370	22		13.3	4.7	94	26	35.6
M205	M	7280	23		15.4	4.8	100	1	30.7
16Y3019	M	7250	24		14.3	4.8	91	1	36.2
13Y3030	M	7230	25		12.5	4.7	93	1	34.6
14Y3143	MSR	7170	26		15.5	4.8	92	3	37.2
89Y235	BG	7170	27		12.3	4.6	89	3	32.5
16Y1192	L	7130	28		11.5	4.7	97	1	34.6
CA201	SLA	6870	29		15.3	4.7	93	3	34.3
14Y3099	MB	6650	30		15.1	4.8	94	3	32.3
14Y3035	M	6350	31		15.5	4.9	96	3	34.6
A202	A	6260	32		18.7	4.8	100	1	33.5
16Y3045	MB	6130	33		13.9	4.7	96	3	34.3
16Y1013	L	5410	34		13.8	4.8	93	1	31.1
MEAN		7440			14.0	4.7	93	11	34.2
CV		9.1			8.9	0.8	2.3	166.5	4.7
LSD (.05)		1380			2.5	0.1	4.3	36.7	8.3

S = short; M = medium; L = long; BG = bold grain; PQ = premium quality; WX = waxy; LA = long grain aromatic; LBL = long grain blast resistant; MB = medium blast resistant; SR stem rot resistant; SLA = short grain 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.

Table 8. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2013-2017)

Location	Year	M104	M105	M206	Calmochi		
					101	S102	L206
Biggs (RES)	2013	9710	9150	8610	8580	9120	9970
	2014	8150	7680	9200	6540	7640	8580
	2015	8580	8150	9350	7940	9520	8910
	2016		10380	10250	7490	8960	10100
	2017	8790	9270	9680	8140	9260	9850
Location Mean		8813	8926	9418	7738	8900	9482
Sutter	2013	9510	9940	9710	8340	9300	9700
	2014	9510	10380	9710	7780	8770	9440
	2015	9520	10350	9900	7990	9190	9820
	2016		11630	11110	9420	10720	9260
	2017	9030	9380	9240	7250	8770	8580
Location Mean		9513	10336	9934	8156	9350	9360
Yolo	2013	9420	9670	9790	7830	8380	9000
	2014	9610	10150	9770	7580	8980	8760
	2015	8150	7210	7490	5560	6940	7740
	2016		10420	10980	9290	9530	10090
	2017	9670	8550	8890	7790	8360	9250
Location Mean		9060	9200	9384	7610	8438	8968
South Yolo	2017	8240	8590	7530	8570	8610	6860
Location Mean		8240	8590	7530	8570	8610	6860
Loc/Years Mean		8907	9263	9067	8019	8825	8668

Table 9. 2017 Four Location Early Rice Variety Trials

Advanced Lines and Varieties

		Single Location Yields																
		Over All Ave Grain Yield at 14% Moisture lbs/ac				Biggs		Butte		Colusa		Yuba		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
Variety	Grain Type	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank					
14Y1006	L	10330	1	11460	3	10140	1	9670	1	10050	1	14.7	4.7	75	59	38.8		
10Y2043	S	10000	2	11630	1	10040	3	9280	3	9060	4	15.3	4.7	80	76	38.9		
L207	L	9950	3	11070	5	9750	4	9410	2	9600	2	14.4	4.8	79	47	40.7		
12Y2175	MPQ	9860	4	11560	2	10110	2	8680	6	9100	3	18.2	4.6	84	55	40.8		
15Y2112	SPQ	9350	5	10850	6	9540	5	8910	4	8100	14	19.2	4.8	82	82	39.5		
M209	M	9190	6	10490	9	9350	6	7840	10	9060	5	19.6	4.8	84	53	39.8		
15Y84	A	9170	7	11450	4	9140	11	8500	7	7590	17	14.0	4.9	83	53	36.5		
12Y3097	MB	9110	8	10470	10	9230	9	7910	9	8830	6	17.9	4.7	78	65	38.4		
L206	L	9060	9	10470	11	9290	8	8810	5	7670	16	13.3	4.7	77	54	36.4		
15Y2151	MPQ	9030	10	10750	8	9140	10	7810	11	8400	10	19.2	4.8	84	70	40.2		
15Y2153	MPQ	8930	11	10780	7	8820	14	7510	15	8610	8	20.4	4.8	86	62	39.7		
M206	M	8850	12	9770	16	9330	7	7530	14	8770	7	17.7	4.8	77	68	38.4		
17Y73	MH	8810	13	10190	14	9040	12	7610	13	8400	11	18.0	4.8	78	63	37.9		
M105	M	8740	14	10290	13	8910	13	7390	16	8370	12	17.1	4.8	75	64	37.9		
CH202	SPQ	8720	15	9560	17	8420	16	8460	8	8420	9	14.0	4.8	78	89	36.2		
M208	MB	8500	16	10010	15	8620	15	7630	12	7730	15	17.0	4.7	79	68	38.8		
S102	S	8430	17	10460	12	8180	17	6920	17	8170	13	13.4	4.7	76	68	37.5		
MEAN		9180		10660		9240		8230		8580		16.7	4.8	80	64	38.6		
CV		4.9		3.7		4.7		6.7		4.8		7.2	2.3	1.6	20.5	2.8		
LSD (.05)		620		561		616		779		587		2.1	0.1	2.2	19.6	2.1		

Preliminary Lines and Varieties

16Y1154	B	9700	1	10870	6	9100	21	9410	4	9440	1	14.0	4.7	79	52	40.3
15Y1027	L	9680	2	10590	12	9600	10	9380	6	9140	2	13.2	4.7	78	45	40.0
CM203	SWX	9660	3	10740	8	9700	5	9100	10	9090	3	17.4	4.7	79	71	39.1
16Y2117	SPQ	9630	4	10910	5	9990	1	9220	7	8410	11	14.7	4.9	79	64	37.8
16Y1063	L	9590	5	10390	19	9620	9	9750	2	8590	7	13.2	4.7	81	25	38.5
15Y2135	SWX	9530	6	11200	2	9670	8	9140	8	8100	18	18.4	4.7	83	58	37.5
15Y3171	M	9470	7	11270	1	9820	4	8700	14	8110	17	18.3	4.8	87	51	37.7
15Y3086	M	9350	8	10810	7	9840	3	8350	23	8400	12	15.9	4.8	79	58	37.3
16Y3054	M	9280	9	10660	9	9880	2	8090	26	8480	8	18.2	4.7	80	66	38.6
15Y3177	M	9230	10	10580	13	9540	12	8370	22	8430	9	18.8	4.8	84	51	36.9
16Y1029	L	9200	11	11100	4	8620	27	8290	24	8800	4	12.6	4.8	78	27	37.5
15Y1018	L	9190	12	11120	3	8200	30	9490	3	7950	20	14.2	4.6	84	53	39.3
13Y3176	M	9180	13	10530	16	8880	24	9050	11	8250	14	17.5	4.8	82	48	37.9
16Y3115	M	9170	14	10520	17	9420	17	7980	29	8750	5	18.8	4.7	83	51	39.5
14Y3121	M	9130	15	10540	14	8910	23	8480	19	8590	6	19.4	4.7	85	35	38.1
16Y2053	SWX	9110	16	10410	18	9600	11	8650	15	7800	25	18.2	4.7	84	62	38.4
16Y2169	SPQ	9100	17	9800	27	9680	6	8740	13	8180	16	15.3	4.8	79	64	37.9
12Y1022	A	9090	18	10240	21	8720	26	9910	1	7490	28	13.8	4.7	82	26	39.3
M205	M	9090	19	10640	10	9670	7	8040	28	8020	19	18.2	4.7	84	42	39.1
A202	A	9020	20	9890	26	9440	14	8430	21	8300	13	14.7	4.8	80	57	38.2
15Y3172	M	8960	21	10250	20	9430	15	8470	20	7690	26	18.1	4.8	85	50	38.3
15Y3150	M	8950	22	9740	29	9430	16	8780	12	7850	22	16.1	4.6	81	59	39.2
16Y2055	SWX	8930	23	10610	11	9270	18	8560	16	7290	29	18.7	4.5	85	82	37.5
16Y3066	M	8860	24	9910	25	9190	20	8510	17	7840	23	15.6	4.6	79	61	37.3
13Y3080	M	8740	25	9780	28	9520	13	7400	33	8240	15	17.3	4.8	77	67	37.3
16Y1051	J	8700	26	10180	22	8200	29	9140	9	7280	30	12.0	4.8	77	50	38.5
16Y3116	MB	8580	27	10530	15	9210	19	8490	18	6100	37	20.6	4.7	87	31	38.1
16Y3165	M	8560	28	9970	23	8820	25	7840	30	7590	27	17.7	4.6	82	51	34.6
16Y3067	MB	8430	29	9360	33	8610	28	7300	34	8430	10	16.3	4.6	78	59	36.7
16Y2121	SPQ	8390	30	9960	24	7720	33	8070	27	7810	24	12.9	4.7	75	82	34.9
15Y1169	J	8330	31	9480	30	7980	31	9400	5	6460	34	13.8	4.7	85	35	38.6
M104	M	8240	32	9450	31	8910	22	6750	36	7880	21	14.2	4.7	73	59	36.8
CH201	SPQ	7750	33	9210	34	7810	32	7610	32	6380	35	13.8	4.9	82	72	36.3
16Y1149	J	7670	34	9420	32	5930	38	8190	25	7150	31	14.1	4.3	84	71	39.8
CM101	SWX	7590	35	9090	35	7590	34	6600	38	7090	32	12.8	4.8	78	76	35.7
16Y1064	B	7170	36	7840	37	6320	37	7700	31	6830	33	13.7	4.8	82	22	36.8
14Y1142	B	6720	37	7370	38	6580	36	6690	37	6250	36	13.4	4.8	85	6	35.0
15Y1195	B	6570	38	7840	36	6650	35	6820	35	4960	38	13.5	4.8	86	24	33.5
MEAN		8780		10040		8820		8390		7830		15.8	4.7	81	52	37.7
CV		7.8		6.3		5.6		7.7		11.3		9.4	2.1	1.2	21.3	6.7
LSD (.05)		831		1293		994		1311		1794		3.0	0.2	1.7	21.5	4.3

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

MB = medium blast resistant; LA = low amylose; SR = Stem Rot resistant; 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.

Table 10. 2017 Biggs Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
10Y2043	S	11630	1	15.5	4.8	76	65	37.5
12Y2175	MPQ	11560	2	19.1	4.6	82	48	42.2
14Y1006	L	11460	3	14.4	4.7	71	38	40.1
15Y84	A	11450	4	14.2	4.9	77	28	38.1
L207	L	11070	5	14.2	4.9	75	18	43.3
15Y2112	SPQ	10850	6	20.1	4.9	78	88	40.1
15Y2153	MPQ	10780	7	20.5	4.8	87	40	41.7
15Y2151	MPQ	10750	8	19.7	4.8	81	68	42.5
M209	M	10490	9	20.1	4.7	80	20	40.6
12Y3097	MB	10470	10	18.6	4.7	72	75	39.7
L206	L	10470	11	14.0	4.7	72	28	37.0
S102	S	10460	12	11.9	4.8	72	53	40.4
M105	M	10290	13	17.6	4.8	69	70	39.8
17Y73	MH	10190	14	18.9	4.9	72	73	39.5
M208	MB	10010	15	16.8	4.7	72	80	41.8
M206	M	9770	16	18.6	4.8	71	83	40.0
CH202	SPQ	9560	17	14.7	5.0	73	90	36.8
MEAN		10660		17.0	4.8	75	56	40.1
CV		3.7		4.5	1.4	1.4	25	2.9
LSD (.05)		561		1.1	0.1	1.5	19.8	4.2

Preliminary Lines and Varieties

15Y3171	M	11270	1	19.8	4.8	76	20	39.6
15Y2135	SWX	11200	2	18.9	4.5	78	50	38.6
15Y1018	L	11120	3	15.4	4.7	79	20	42.3
16Y1029	L	11100	4	13.5	4.9	72	1	39.6
16Y2117	SPQ	10910	5	14.1	4.9	73	55	37.2
16Y1154	B	10870	6	14.4	4.7	75	35	43.3
15Y3086	M	10810	7	16.0	4.8	72	65	37.8
CM203	SWX	10740	8	15.8	4.7	73	65	39.6
16Y3054	M	10660	9	18.6	4.7	74	65	40.4
M205	M	10640	10	19.3	4.7	80	20	41.3
16Y2055	SWX	10610	11	19.4	4.4	81	60	37.0
15Y1027	L	10590	12	14.2	4.7	72	15	42.3
15Y3177	M	10580	13	19.7	4.7	79	20	39.6
14Y3121	M	10540	14	19.7	4.7	80	10	40.0
16Y3116	MB	10530	15	17.7	4.7	83	1	39.4
13Y3176	M	10530	16	17.4	4.9	78	30	40.2
16Y3115	M	10520	17	18.5	4.6	78	15	41.5
16Y2053	SWX	10410	18	18.8	4.7	80	25	39.2
16Y1063	L	10390	19	13.6	4.7	76	1	38.6
15Y3172	M	10250	20	20.3	4.7	82	25	40.7
12Y1022	A	10240	21	15.2	4.7	76	0	42.5
16Y1051	J	10180	22	13.5	4.9	72	15	41.1
16Y3165	M	9970	23	16.9	4.7	77	25	40.2
16Y2121	SPQ	9960	24	12.3	4.8	69	60	36.0
16Y3066	M	9910	25	16.6	4.6	72	55	39.6
A202	A	9890	26	14.7	4.8	73	30	40.6
16Y2169	SPQ	9800	27	16.3	4.8	71	40	37.2
13Y3080	M	9780	28	17.9	4.9	69	75	38.4
15Y3150	M	9740	29	16.5	4.4	76	35	41.1
15Y1169	J	9480	30	14.2	4.6	78	5	41.9
M104	M	9450	31	15.3	4.7	66	40	40.0
16Y1149	J	9420	32	16.7	4.2	81	80	46.7
16Y3067	MB	9360	33	17.1	4.6	72	55	39.0
CH201	SPQ	9210	34	13.3	5.0	75	80	38.8
CM101	SWX	9090	35	11.3	4.8	73	70	37.0
15Y1195	B	7840	36	13.4	4.8	80	1	37.8
16Y1064	B	7840	37	14.0	4.8	77	10	41.1
14Y1142	B	7370	38	14.3	4.8	80	1	37.8
MEAN		10040		16.2	4.7	76	33	39.9
CV		6.3		6.1	2.1	2.1	47.8	2.9
LSD (.05)		1293		2.0	0.2	3.2	32.4	5.9

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=long Basmati; J=Jasmine; MB = medium blast resistant; LA = low amylose; SR = Stem Rot resistant; 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.

Table 11. 2017 Butte Early Rice Variety Trial

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
14Y1006	L	10140	1	15.5	4.7	76	88	38.9
12Y2175	MPQ	10110	2	18.8	4.7	84	76	42.3
10Y2043	S	10040	3	18.0	4.7	81	94	39.2
L207	L	9750	4	16.3	4.7	80	83	44.4
15Y2112	SPQ	9540	5	20.9	4.7	83	99	38.4
M209	M	9350	6	21.9	4.8	84	85	40.8
M206	M	9330	7	17.8	4.8	78	86	40.3
L206	L	9290	8	15.0	4.5	77	89	40.2
12Y3097	MB	9230	9	17.9	4.7	81	85	39.2
15Y2151	MPQ	9140	10	19.2	4.7	83	98	39.9
15Y84	A	9140	11	15.4	4.9	82	81	37.1
17Y73	MH	9040	12	17.8	4.7	78	76	40.2
M105	M	8910	13	17.1	4.8	76	75	39.3
15Y2153	MPQ	8820	14	22.4	4.8	86	88	40.5
M208	MB	8620	15	16.7	4.8	80	91	42.7
CH202	SPQ	8420	16	15.9	4.7	78	99	37.4
S102	S	8180	17	15.8	4.7	78	97	40.6
MEAN		9240		17.8	4.7	80	88	40.1
CV		4.7		6.8	1.7	1.8	8.2	4.2
LSD (.05)		616		1.7	0.1	2.0	10.2	6.0

Preliminary Lines and Varieties

16Y2117	SPQ	9989	1	16.8	4.8	81	97	39.6
16Y3054	M	9884	2	18.2	4.7	81	95	39.0
15Y3086	M	9843	3	15.9	4.7	79	83	38.2
15Y3171	M	9816	4	17.9	4.7	84	83	38.2
CM203	SWX	9698	5	17.0	4.8	79	97	40.9
16Y2169	SPQ	9676	6	15.9	4.8	80	99	38.0
M205	M	9667	7	18.0	4.7	84	75	40.6
15Y2135	SWX	9667	8	19.6	4.8	83	83	39.6
16Y1063	L	9619	9	14.8	4.8	83	30	42.1
15Y1027	L	9602	10	14.2	4.8	79	80	44.1
16Y2053	SWX	9599	11	19.4	4.7	83	95	40.9
15Y3177	M	9544	12	18.6	4.8	84	85	36.2
13Y3080	M	9515	13	17.1	4.8	77	95	40.2
A202	A	9438	14	16.6	4.8	81	99	41.7
15Y3172	M	9431	15	18.0	4.8	84	83	39.8
15Y3150	M	9425	16	16.8	4.7	83	99	42.5
16Y3115	M	9424	17	19.6	4.7	83	92	42.3
16Y2055	SWX	9270	18	20.2	4.4	85	95	41.1
16Y3116	MB	9207	19	17.7	4.7	88	58	39.6
16Y3066	M	9192	20	14.6	4.7	80	90	39.8
16Y1154	B	9101	21	14.4	4.7	81	90	44.5
M104	M	8910	22	13.5	4.8	75	97	38.0
14Y3121	M	8909	23	20.2	4.7	84	48	40.6
13Y3176	M	8878	24	17.7	4.8	82	68	38.6
16Y3165	M	8816	25	17.5	4.6	83	78	43.7
12Y1022	A	8722	26	14.1	4.7	82	43	44.5
16Y1029	L	8616	27	13.5	4.7	79	50	41.1
16Y3067	MB	8609	28	16.1	4.6	79	73	39.4
16Y1051	J	8199	29	12.7	4.8	78	88	38.4
15Y1018	L	8198	30	15.4	4.3	84	75	42.7
15Y1169	J	7980	31	15.7	4.8	87	68	43.9
CH201	SPQ	7810	32	15.2	4.9	84	95	39.4
16Y2121	SPQ	7722	33	14.3	4.7	75	99	36.2
CM101	SWX	7594	34	14.5	4.9	80	99	39.6
15Y1195	B	6648	35	13.0	4.7	87	1	41.7
14Y1142	B	6578	36	14.7	4.7	85	10	42.7
16Y1064	B	6318	37	14.2	4.8	81	38	46.3
16Y1149	J	5926	38	14.4	4.7	83	95	46.9
MEAN		8817		16.3	4.7	82	77	40.9
CV		5.6		6.5	2.5	0.8	10.8	3.9
LSD (.05)		994		2.2	0.2	1.4	16.9	8.1

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

MB = medium blast resistant; LA = low amylose; SR = Stem Rot resistant; 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.

Table 12. 2017 Colusa Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
14Y1006	L	9670	1	16.6	4.8	80	21	40.2
L207	L	9410	2	15.1	4.9	82	1	42.8
10Y2043	S	9280	3	16.6	4.8	85	48	37.7
15Y2112	SPQ	8910	4	23.8	5.0	85	43	40.8
L206	L	8810	5	12.3	4.7	82	2	37.9
12Y2175	MPQ	8680	6	21.1	4.4	89	2	42.2
15Y84	A	8500	7	14.3	5.0	88	16	38.5
CH202	SPQ	8460	8	14.8	4.9	81	69	38.1
12Y3097	MB	7910	9	21.4	4.7	83	2	39.6
M209	M	7840	10	22.5	4.7	89	11	41.0
15Y2151	MPQ	7810	11	24.3	4.8	89	14	42.7
M208	MB	7630	12	20.8	4.6	83	1	40.8
17Y73	MH	7610	13	21.4	4.8	82	3	39.8
M206	M	7530	14	20.4	4.9	83	12	40.5
15Y2153	MPQ	7510	15	24.7	4.8	91	22	41.9
M105	M	7390	16	20.2	4.8	79	11	40.3
S102	S	6920	17	15.2	4.6	79	24	37.9
MEAN		8230		19.1	4.8	84	18	40.2
CV		6.7		9.8	3.8	1.3	118.6	2.9
LSD (.05)		779		2.7	0.3	1.6	29.7	4.2

Preliminary Lines and Varieties

12Y1022	A	9910	1	13.8	4.8	87	3	43.9
16Y1063	L	9750	2	12.2	4.7	85	1	41.3
15Y1018	L	9490	3	13.9	4.8	87	25	44.5
16Y1154	B	9410	4	15.6	4.8	83	1	44.1
15Y1169	J	9400	5	13.1	4.7	89	1	44.3
15Y1027	L	9380	6	12.2	4.7	82	3	43.3
16Y2117	SPQ	9220	7	16.5	5.0	85	13	40.2
15Y2135	SWX	9140	8	24.1	4.7	86	3	38.4
16Y1051	J	9140	9	10.2	4.7	83	1	41.5
CM203	SWX	9100	10	25.4	4.9	83	25	42.1
13Y3176	M	9050	11	21.1	4.8	88	1	39.6
15Y3150	M	8780	12	17.2	4.8	86	1	41.9
16Y2169	SPQ	8740	13	18.0	4.9	83	18	40.6
15Y3171	M	8700	14	22.1	4.8	92	3	38.2
16Y2053	SWX	8650	15	23.6	4.8	88	33	38.8
16Y2055	SWX	8560	16	24.8	4.7	90	73	40.2
16Y3066	M	8510	17	17.7	4.5	84	1	38.6
16Y3116	MB	8490	18	24.9	4.5	92	1	39.6
14Y3121	M	8480	19	23.9	4.8	91	1	40.4
15Y3172	M	8470	20	20.6	4.8	89	1	40.2
A202	A	8430	21	15.4	4.9	85	1	38.6
15Y3177	M	8370	22	22.7	4.8	89	18	37.6
15Y3086	M	8350	23	18.3	4.9	84	1	38.0
16Y1029	L	8290	24	11.2	5.0	81	1	41.7
16Y1149	J	8190	25	13.5	3.5	90	20	47.2
16Y3054	M	8090	26	22.5	4.8	84	8	38.6
16Y2121	SPQ	8070	27	14.2	4.7	80	73	37.2
M205	M	8040	28	21.8	4.7	89	1	39.8
16Y3115	M	7980	29	23.6	4.8	88	1	41.1
16Y3165	M	7840	30	23.1	4.7	88	1	42.9
16Y1064	B	7700	31	14.4	4.9	88	1	41.1
CH201	SPQ	7610	32	15.9	5.0	87	15	38.4
13Y3080	M	7400	33	21.0	4.9	83	3	40.6
16Y3067	MB	7300	34	18.7	4.6	83	13	37.6
15Y1195	B	6820	35	10.6	4.9	91	1	36.2
M104	M	6750	36	14.6	4.8	79	3	39.4
14Y1142	B	6690	37	12.4	4.9	91	1	40.7
CM101	SWX	6600	38	15.3	4.8	81	38	38.4
MEAN		8390		17.9	4.7	86	11	40.4
CV		7.7		7.8	2.3	0.8	90.1	3.2
LSD (.05)		1311		2.8	0.2	1.4	19.5	6.8

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

MB = medium blast resistant; LA = low amylose; SR = Stem Rot resistant; 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.

Table 13. 2017 Yuba Early Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
14Y1006	L	10050	1	12.1	4.8	76	91	39.4
L207	L	9600	2	12.1	4.8	81	88	42.0
12Y2175	MPQ	9100	3	13.9	4.7	82	95	41.6
10Y2043	S	9060	4	11.1	4.7	80	98	43.9
M209	M	9060	5	14.0	4.8	84	98	41.6
12Y3097	MB	8830	6	13.8	4.8	78	97	40.7
M206	M	8770	7	14.1	4.8	77	92	39.2
15Y2153	MPQ	8610	8	13.9	4.8	83	99	41.3
CH202	SPQ	8420	9	10.5	4.7	78	98	40.1
15Y2151	MPQ	8400	10	13.8	4.8	82	99	41.8
17Y73	MH	8400	11	13.8	4.7	78	99	39.7
M105	M	8370	12	13.6	4.8	76	99	39.6
S102	S	8170	13	10.8	4.7	77	99	43.0
15Y2112	SPQ	8100	14	11.8	4.8	80	99	41.0
M208	MB	7730	15	13.7	4.9	81	98	41.6
L206	L	7670	16	11.9	4.7	78	99	38.1
15Y84	A	7590	17	12.0	4.9	85	88	37.2
MEAN		8580		12.8	4.8	80	96	40.7
CV		4.8		3.0	0.0	1.7	4.5	1.1
LSD (.05)		587		0.5	0.1	1.9	6.2	1.7

Preliminary Lines and Varieties

16Y1154	B	9440	1	11.8	4.8	80	83	41.9
15Y1027	L	9140	2	12.0	4.7	79	83	41.1
CM203	SWX	9090	3	11.2	4.7	82	97	39.8
16Y1029	L	8800	4	12.1	4.7	80	58	39.0
16Y3115	M	8750	5	13.6	4.7	84	97	40.4
14Y3121	M	8590	6	13.8	4.8	85	80	39.0
16Y1063	L	8590	7	12.2	4.8	83	70	40.4
16Y3054	M	8480	8	13.6	4.7	81	95	39.4
15Y3177	M	8430	9	14.0	4.8	85	83	35.4
16Y3067	MB	8430	10	13.5	4.7	80	95	39.6
16Y2117	SPQ	8410	11	11.3	4.8	80	92	38.0
15Y3086	M	8400	12	13.6	4.8	80	85	38.4
A202	A	8300	13	12.3	4.8	81	97	39.8
13Y3176	M	8250	14	13.7	4.8	82	93	39.6
13Y3080	M	8240	15	13.3	4.9	78	95	36.2
16Y2169	SPQ	8180	16	11.2	4.7	81	99	39.6
15Y3171	M	8110	17	13.4	4.8	85	97	37.6
15Y2135	SWX	8100	18	11.0	4.8	84	97	37.2
M205	M	8020	19	13.9	4.8	85	70	40.2
15Y1018	L	7950	20	11.9	4.7	86	93	41.5
M104	M	7880	21	13.5	4.8	74	97	37.0
15Y3150	M	7850	22	13.7	4.7	82	99	39.8
16Y3066	M	7840	23	13.5	4.7	80	99	39.0
16Y2121	SPQ	7810	24	10.9	4.8	77	97	39.4
16Y2053	SWX	7800	25	10.9	4.8	84	95	40.2
15Y3172	M	7690	26	13.3	4.8	85	92	37.8
16Y3165	M	7590	27	13.4	4.7	82	99	43.1
12Y1022	A	7490	28	12.2	4.8	83	58	40.6
16Y2055	SWX	7290	29	10.5	4.7	86	99	38.0
16Y1051	J	7280	30	11.5	4.7	77	95	43.3
16Y1149	J	7150	31	11.8	4.8	84	88	44.5
CM101	SWX	7090	32	10.3	4.8	78	99	40.7
16Y1064	B	6830	33	12.2	4.8	81	38	42.9
15Y1169	J	6460	34	12.2	4.8	86	65	39.8
CH201	SPQ	6380	35	10.8	4.8	84	97	40.7
14Y1142	B	6250	36	12.3	4.9	85	13	38.6
16Y3116	MB	6100	37	22.1	4.7	85	65	40.2
15Y1195	B	4960	38	17.1	4.8	85	95	37.2
MEAN		7830		12.8	4.7	82	85	39.6
CV		11.3		17.0	0.2	1.0	9.3	1.5
LSD (.05)		1794		4.4	0.1	1.6	16.1	3.1

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=long Basmati; J=Jasmine; MB = medium blast resistant; LA = low amylose; SR = Stem Rot resistant; 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.

Table 14. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2013-2017)

Location	Year	Calhikari							
		201	S102	M105	M205	M206	M209	L206	L207
Biggs (RES)	2013	8490	8640	7820	9230	8160	9070	8420	
	2014	6220	7320	8570	9140	9240	9670	8640	
	2015	8580	10050	8610	8720	9620	9490	9360	10550
	2016	7310	9020	10380	10690	10780	10950	11060	11220
	2017	9210	10460	10300	10640	9770	10490	10470	11070
Location Mean		7962	9098	9136	9684	9514	9934	9590	10947
Butte	2013	7840	8650	9640	8960	9020	8570	9390	
	2014	8310	8570	9070	9140	9610	9140	9730	
	2015	7180	8810	9350	7780	9370	8580	9810	9130
	2016	8080	9480	10060	9640	10400	10220	10050	10960
	2017	7810	8180	8910	9670	9330	9350	9290	9750
Location Mean		7844	8738	9406	9038	9546	9172	9654	9947
Colusa	2013	7840	7220	9750	8930	9660	9730	10250	
	2014	7740	8080	9100	9370	9280	9600	9380	
	2015	8940	9200	10500	10050	9850	10490	9940	11160
	2016	8590	9050	10390	9730	9960	9600	8670	10600
	2017	7610	6920	7390	8040	7530	7850	8810	9410
Location Mean		8144	8094	9426	9224	9256	9454	9410	10390
Yuba	2013	8040	9280	9330	9650	9750	9690	9590	
	2014	7290	7420	8590	9120	8950	8800	9260	
	2015	8490	8740	9970	9650	9940	10240	9840	10480
	2016	7310	8300	9110	8430	9090	8760	8670	8470
	2017	6380	8170	8370	8020	8770	9060	7670	9600
Location Mean		7502	8382	9074	8974	9300	9310	9006	9517
Loc/Years Mean		7863	8578	9261	9230	9404	9468	9415	10200

Table 15. 2017 Three Location Intermediate/Late Rice Variety Trials

Advanced Lines and Varieties

Single Location Yields														
		Over All Ave Grain Yield at 14% Moisture lbs/ac		Biggs		Butte		Glenn						
Variety	Grain Type	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
14Y1006	L	10050	1	11600	1	10200	1	8340	3	14.0	4.8	76	64	38.8
15Y84	A	9710	2	11320	3	9410	5	8400	2	13.4	4.8	83	54	37.8
10Y2043	S	9600	3	11320	4	9910	2	7590	5	14.1	4.4	84	76	38.5
L207	L	9260	4	10560	5	8270	12	8950	1	13.6	4.8	80	56	43.0
12Y2175	MPQ	9220	5	11570	2	9130	6	6950	11	14.7	4.6	85	59	42.5
L206	L	9020	6	10520	6	8980	7	7560	6	13.5	4.7	78	64	38.3
M209	M	9010	7	10350	8	8480	10	8200	4	15.1	4.7	85	59	40.4
M105	M	8790	8	9940	10	8930	8	7520	7	15.1	4.6	76	63	39.4
M206	M	8760	9	9470	12	9650	3	7140	10	15.3	4.7	78	78	40.0
12Y3097	MB	8680	10	9860	11	9650	4	6530	12	15.2	4.6	78	69	39.7
M208	MB	8630	11	10040	9	8480	11	7370	8	14.9	4.6	81	76	40.8
S102	S	8530	12	10450	7	8840	9	6310	13	13.1	4.5	80	71	39.9
M402	MPQ	7480	13	8880	13	6280	13	7280	9	16.8	4.6	108	57	41.9
MEAN		8980		10450		8940		7550		14.5	4.6	83	65	40.1
CV		7.3		4.7		6.1		11.5		7.6	4.7	1.0	18.4	3.5
LSD (.05)		1201		707		784		1240		3.9	0.3	4.5	27.4	1.6

Preliminary Lines and Varieties

15Y2153	MPQ	10330	1	10840	5	12010	1	8130	6	16.2	4.5	88	64	42.1
16Y127	L	9400	2	11220	2	8450	7	8540	3	14.7	4.8	83	67	41.4
16Y3121	M	9390	3	10690	7	9010	3	8460	5	16.1	4.6	87	48	40.2
16Y3112	M	9250	4	10700	6	8160	9	8900	1	15.0	4.7	86	62	42.6
M205	M	9210	5	10590	10	8550	5	8500	4	15.1	4.6	87	63	39.8
14Y3145	MSR	9210	6	11250	1	7630	13	8740	2	15.8	4.6	88	60	41.5
16Y3111	M	9020	7	10900	4	8440	8	7730	8	16.2	4.6	86	55	42.3
16Y3108	M	8950	8	10660	8	8070	10	8100	7	15.7	4.6	87	44	40.3
15Y2151	MPQ	8820	9	10940	3	7870	11	7650	10	16.0	4.7	86	75	42.8
15Y1178	J	8580	10	10640	9	7790	12	7300	12	14.5	4.8	88	59	43.0
A202	A	8570	11	10540	11	8920	4	6260	16	14.3	4.8	81	59	41.6
16Y2075	MPQ	8520	12	9390	18	8450	6	7720	9	15.6	4.6	86	59	42.7
16Y1176	J	8250	13	10070	13	7260	15	7430	11	14.5	4.9	89	57	43.4
16Y2150	MPQ	8220	14	9880	15	7500	14	7290	13	15.2	4.7	85	65	42.5
M104	M	7990	15	9440	17	9220	2	5300	18	13.6	4.7	74	63	39.1
16Y2071	MPQ	7690	16	10110	12	5980	18	6980	14	16.7	4.6	109	48	43.4
16Y1185	J	7240	17	10010	14	6250	17	5460	17	14.2	4.8	86	67	46.2
M401	MPQ	7230	18	9600	16	5630	19	6470	15	17.3	4.8	111	64	46.7
15Y1051	J	6850	19	8810	19	6650	16	5090	20	14.0	4.8	82	58	46.3
16Y1118	B	5680	20	6270	21	5570	20	5220	19	14.4	4.8	87	68	49.4
14Y156	B	5640	21	6310	20	5540	21	5060	21	14.8	4.8	82	87	48.4
14Y149	B	5550	22	5410	22	0	22	0	22	24.4	4.8	99	84	47.3
MEAN		8270		9740		7760		7160		15.3	4.7	88	62	43.3
CV		11.0		2.7		16.6		12.6		5.0	3.8	1.3	16.4	3.7
LSD (.05)		1595		558		2549		1879		4.5	0.3	5.5	25.2	2.2

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

Table 16. 2017 Biggs Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
14Y1006	L	11600	1	14.9	4.9	68	40	38.7
12Y2175	MPQ	11570	2	18.6	4.9	81	28	41.8
15Y84	A	11320	3	14.0	4.9	78	3	36.6
10Y2043	S	11320	4	14.2	4.9	75	45	37.2
L207	L	10560	5	13.7	5.0	73	10	42.2
L206	L	10520	6	13.8	4.9	72	15	38.7
S102	S	10450	7	10.2	4.9	74	45	39.4
M209	M	10350	8	19.8	4.9	80	18	39.8
M208	MB	10040	9	16.9	4.9	74	73	40.6
M105	M	9940	10	17.9	4.9	68	33	38.9
12Y3097	MB	9860	11	18.3	4.9	71	63	39.2
M206	M	9470	12	18.2	4.9	70	60	38.1
M402	MPQ	8880	13	23.0	5.0	74	1	40.6
MEAN		10450		16.4	4.9	74	33	39.4
CV		4.7		6.0	0.2	1.4	36.2	3.9
LSD (.05)		707		1.4	0.0	1.4	17.2	5.7

Preliminary Lines and Varieties

14Y3145	MSR	11250	1	20.7	4.9	84	1	40.4
16Y127	L	11220	2	17.1	5.0	76	20	40.0
15Y2151	MPQ	10940	3	20.2	4.9	81	45	42.9
16Y3111	M	10900	4	21.7	4.9	81	15	42.7
15Y2153	MPQ	10840	5	21.4	4.9	84	10	42.7
16Y3112	M	10700	6	20.4	4.9	81	15	41.3
16Y3121	M	10690	7	20.9	4.9	83	1	39.4
16Y3108	M	10660	8	21.0	4.9	83	1	40.2
15Y1178	J	10640	9	16.2	4.9	84	1	41.5
M205	M	10590	10	19.6	4.9	84	1	40.9
A202	A	10540	11	14.8	4.9	74	10	40.9
16Y2071	MPQ	10110	12	24.9	5.0	80	1	43.5
16Y1176	J	10070	13	14.8	5.0	83	1	42.3
16Y1185	J	10010	14	17.2	4.8	84	10	44.3
16Y2150	MPQ	9880	15	19.6	4.9	84	20	42.3
M401	MPQ	9600	16	28.8	5.0	80	5	45.1
M104	M	9440	17	15.5	4.9	67	55	39.6
16Y2075	MPQ	9390	18	19.8	4.9	82	10	43.5
15Y1051	J	8810	19	15.7	4.9	74	20	48.6
14Y156	B	6310	20	15.5	4.9	72	85	49.0
16Y1118	B	6270	21	16.7	4.9	82	35	50.2
14Y149	B	5410	22	24.4	4.9	84	17	45.5
MEAN		9740		19.4	4.9	80	17	43.0
CV		2.7		4.2	0.3	1.0	46.0	4.3
LSD (.05)		558		1.7	0.1	1.8	16.3	9.8

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

Table 17. 2017 Butte Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
14Y1006	L	10200	1	12.9	4.8	79	91	37.0
10Y2043	S	9910	2	12.3	4.7	85	91	37.8
M206	M	9650	3	14.5	4.9	80	86	37.9
12Y3097	MB	9650	4	14.4	4.8	81	84	38.9
15Y84	A	9410	5	12.2	4.8	86	71	36.8
12Y2175	MPQ	9130	6	12.9	4.6	87	74	42.2
L206	L	8980	7	12.5	4.7	83	90	36.8
M105	M	8930	8	13.9	4.7	78	78	37.5
S102	S	8840	9	13.3	4.7	81	89	37.6
M209	M	8480	10	11.3	4.7	86	75	38.8
M208	MB	8480	11	14.8	4.7	85	65	40.6
L207	L	8270	12	13.0	4.8	82	89	41.0
M402	MPQ	6280	13	11.5	4.9	105	86	41.9
MEAN		8940		13.0	4.7	84	82	38.8
CV		6.1		10.8	0.1	0.7	11.1	3.5
LSD (.05)		784		2.0	0.1	0.9	13.0	4.9

Preliminary Lines and Varieties

15Y2153	MPQ	12010	1	13.5	4.8	89	90	41.1
M104	M	9220	2	12.8	4.8	76	85	35.4
16Y3121	M	9010	3	13.7	4.8	89	83	39.2
A202	A	8920	4	13.7	4.7	85	90	42.3
M205	M	8550	5	12.5	4.8	89	95	37.6
16Y2075	MPQ	8450	6	13.5	4.7	87	92	41.9
16Y127	L	8450	7	12.9	4.8	87	88	40.6
16Y3111	M	8440	8	13.8	4.7	87	80	40.7
16Y3112	M	8160	9	11.7	4.8	86	90	42.5
16Y3108	M	8070	10	12.5	4.6	89	80	39.0
15Y2151	MPQ	7870	11	12.4	4.8	87	85	42.5
15Y1178	J	7790	12	12.6	4.8	88	93	42.9
14Y3145	MSR	7630	13	11.7	4.8	89	92	41.9
16Y2150	MPQ	7500	14	13.5	4.7	84	93	42.3
16Y1176	J	7260	15	13.5	4.9	89	83	43.7
15Y1051	J	6650	16	12.9	4.7	85	75	45.1
16Y1185	J	6250	17	11.6	4.8	88	95	45.3
16Y2071	MPQ	5980	18	10.3	4.8	104	83	43.1
M401	MPQ	5630	19	9.1	4.8	108	93	47.8
16Y1118	B	5570	20	13.5	4.8	88	83	48.0
14Y156	B	5540	21	13.3	4.8	86	85	46.7
14Y149	B	0	22	0.0	4.7	105	73	46.1
MEAN		7760		12.6	4.7	89	86	42.5
CV		16.6		5.0	0.1	2.0	9.9	2.9
LSD (.05)		2549		1.2	0.1	3.7	17.8	6.5

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

Table 18. 2017 Glenn Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Yield	Rank					
L207	L	8950	1	14.2	4.8	85	70	45.7
15Y84	A	8400	2	14.1	4.7	86	88	40.0
14Y1006	L	8340	3	14.3	4.7	80	63	40.6
M209	M	8200	4	14.2	4.4	89	85	42.5
10Y2043	S	7590	5	15.8	3.7	93	92	40.4
L206	L	7560	6	14.2	4.4	80	88	39.4
M105	M	7520	7	13.5	4.3	82	80	41.9
M208	MB	7370	8	13.0	4.2	85	91	41.3
M402	MPQ	7280	9	15.9	3.9	109	84	43.1
M206	M	7140	10	13.0	4.4	83	88	43.9
12Y2175	MPQ	6950	11	12.8	4.3	89	75	43.4
12Y3097	MB	6530	12	13.0	4.1	83	61	40.9
S102	S	6310	13	15.8	3.9	85	80	42.6
MEAN		7550		14.1	4.3	87	80	42.0
CV		11.5		6.0	8.7	0.9	17.9	3.2
LSD (.05)		1240		1.2	0.5	1.1	20.6	4.9

Preliminary Lines and Varieties

16Y3112	M	8900	1	12.9	4.3	90	80	43.9
14Y3145	MSR	8740	2	15.0	4.0	90	88	42.1
16Y127	L	8540	3	14.2	4.8	87	93	43.7
M205	M	8500	4	13.0	4.0	89	93	40.9
16Y3121	M	8460	5	13.7	4.1	89	63	41.9
15Y2153	MPQ	8130	6	13.8	3.9	90	93	42.5
16Y3108	M	8100	7	13.7	4.2	90	53	41.7
16Y3111	M	7730	8	13.2	4.2	90	70	43.5
16Y2075	MPQ	7720	9	13.5	4.3	88	75	42.7
15Y2151	MPQ	7650	10	15.5	4.4	89	95	42.9
16Y1176	J	7430	11	15.3	4.8	94	88	44.3
15Y1178	J	7300	12	14.7	4.7	94	85	44.7
16Y2150	MPQ	7290	13	12.5	4.4	88	83	42.9
16Y2071	MPQ	6980	14	14.9	4.0	111	60	43.7
M401	MPQ	6470	15	14.0	4.6	112	95	47.0
A202	A	6260	16	14.4	4.9	84	78	41.5
16Y1185	J	5460	17	13.8	4.8	88	95	49.0
M104	M	5300	18	12.5	4.4	80	50	42.3
16Y1118	B	5220	19	13.2	4.9	90	88	50.0
15Y1051	J	5090	20	13.6	4.8	88	80	45.3
14Y156	B	5060	21	15.6	4.8	87	90	49.4
14Y149	B	0	22	0.0	4.8	108	95	50.4
MEAN		7160		13.9	4.4	91	81	44.4
CV		12.6		6.1	6.8	0.7	16.6	3.9
LSD (.05)		1879		1.8	0.6	1.4	28.0	3.6

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

Table 19. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/Late Rice Varieties by Location and Year (2013-2017)

Location	Year	M205	M402	M209	L206
Biggs (RES)	2013	9730	9830	10100	9460
	2014	10550	10040	11270	10340
	2015	9880	8450	9880	9520
	2016	9460	9370	9900	10490
	2017	10590	8880	10350	10520
Location Mean		10042	9314	10300	10066
Glenn	2013	8400	8970	8490	8870
	2014	8910	8910	8610	8870
	2015	9420	8710	9700	9910
	2016	8490	9850	8520	9290
	2017	8500	7280	8200	7560
Location Mean		8744	8744	8704	8900
Butte	2016	9110	6900	9010	9530
	2017	8550	6280	8480	8980
Location Mean		8830	6590	8745	9255
Loc/Years Mean		9205	8216	9250	9407