



AGRONOMY PROGRESS REPORT

Agricultural Experiment Station

Cooperative Extension

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CALIFORNIA RICE VARIETIES

DESCRIPTION AND PERFORMANCE SUMMARY OF THE 2024 AND MULTI-YEAR STATEWIDE RICE VARIETY TESTS IN CALIFORNIA

B. A. Linqvist, W. B. Brim-DeForest, L. A. Espino, S. M. Janish, M. M. Leinfelder-Miles, and J. R. Stogsdill*

University of California Cooperative Extension rice variety evaluation tests were conducted in the Sacramento Valley in 2024. 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 find their adaptation to the principal rice growing areas of California. Entries in the tests include lines and varieties developed by CCRRF rice breeders. The Rice Research Board provides funding and cooperating growers provide land for this program. Variety names and brief descriptions of the current publicly developed varieties are listed in Table 1.

California rice acres decreased in 2024 with a total of 467,000 acres planted and 464,000 acres harvested when compared to 2023 with 516,000 acres planted and 513,000 acres harvested. The estimated statewide yield was 8,530 lbs./acre, a small decrease from 2023 (8,540 lbs./acre).

EXPERIMENTAL PROCEDURE

Cultivars and Locations

Field experiments were conducted at nine locations, eight farm locations throughout the rice growing region of California and one location at the Rice Experiment Station. Three classes of tests were conducted at each site: 1) Three-replication advanced tests consisting of advanced breeding lines and commercial varieties; 2) Two-replication advance test consisting of advance breeding lines and commercial varieties; and 3) Two-replication preliminary tests consisting of new lines to be evaluated on a statewide basis.

* Extension Agronomist, Department of Plant Sciences, UC Cooperative Extension Farm Advisors for (Sutter/Yuba, Placer/Sacramento), (Butte/Glenn), (Colusa/Yolo), (San Joaquin), Counties, respectively, and Staff Research Associate, Department of Plant Sciences, UC Davis.

All variety tests were conducted in three zones, Zone 1, Zone 2, and Zone 3 for a total of nine statewide tests. The three-replication advanced tests were arranged in randomized complete block designs, the two-replication advance test was arranged in randomized complete block designs, and the two-replication preliminary was planted in randomized complete block designs. Seed for the tests was provided by the RES. Groups, test locations, and commercial standards in each test were as follows:

Zone 1

Fourteen commercial varieties and thirteen advanced breeding lines were evaluated in two three-replication advanced tests at each location listed below.

	Date Planted	Date Harvested
* Colusa County (Dennis)	05/17	10/02
* Glenn County (Wylie)	05/23	10/19

Three commercial varieties and eleven breeding lines were evaluated in two two-replication advance tests. The two-replication preliminary tests evaluated one commercial variety and thirteen preliminary lines at both locations. Commercial varieties at each location included S102, S202, CA201, CH203, CM101, CM203, M105, M206, M209, M210, M211, M521, A202, CJ201, CT202, L207, and L208.

Zone 2

Fourteen commercial varieties and thirteen advanced breeding lines were evaluated in the three-replication advanced tests at each of the following locations.

	Date Planted	Date Harvested
* Butte County (RES)	05/21	10/13
* North Butte County (Sheppard)	05/22	10/15
* South Butte County (Schohr)	05/13	09/21

Three commercial and eleven breeding lines were evaluated in three two-replication advance tests. The two-replication preliminary tests evaluated one commercial variety and thirteen preliminary lines at each location. Commercial varieties at each location included S102, S202, CA201, CH203, CM101, CM203, M105, M206, M209, M210, M211, M521, A202, CJ201, CT202, L207, and L208.

Zone 3

Fourteen commercial varieties and thirteen advanced breeding lines were evaluated in the three-replication advanced test at three of the following locations. The fourth location at San Joaquin only included medium grain varieties and lines.

	Date Planted	Date Harvested
* North Yolo (Gallagher)	05/17	10/01
* San Joaquin (Del Rio)	04/30	10/08
* Sutter County (Lauppe)	05/22	10/10
* Yuba County (Rue)	05/25	10/12

Three commercial and eleven breeding lines were compared in three two-replication advance tests. The two-replication preliminary tests compared one commercial variety and thirteen preliminary lines at each location. Commercial varieties at the three locations included S102, S202, CA201, CH203, CM101, CM203, M105, M206, M209, M210, M211, M521, A202, CJ201, CT202, L207, and L208.

Planting and Harvesting

Individual plots were water-seeded by hand at a planting rate of 150 lbs./acre at most locations with the trial found in San Joaquin being drill seeded at a 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 0 (no lodging) to 100 (all plants completely lodged).

Variety trial harvest was completed in mid-October. The University of California, Davis's ALMACO combine harvested seven trials, the Rice Experiment Station's ALMACO combine harvested the trial at the Butte County (RES) location, and a hand harvest was performed at the San Joaquin trial. Harvested areas were 151ft² (UCD ALMACO), 140ft² (RES ALMACO), and 15ft² (Hand Harvest). Grain moisture was assessed at harvest and yields were adjusted to 14% moisture.

SUMMARY OF ZONE 1 RICE VARIETY TESTS

Yields in the three-replication advanced line tests averaged 8,880 lbs./ac across both locations with Colusa averaging 8,970 lbs./ac and Glenn averaging 8,790 lbs./ac (Table 4-5). In the three-replication advanced test, L208 was the highest yielding commercial variety at Colusa, and S202 was the highest yielding commercial variety at Glenn ranking 2nd and 1st overall. L207 and S202 were the next highest yielding commercial varieties at the Colusa location, and L208 and CM203 were the next highest yielding commercial varieties at the Glenn location ranking second and fifth respectively (Table 3). The long grain entry 20Y1010 was the highest yielding advanced entry at the Colusa location with 10,380 lbs./ac, and the highest yielding advance line at the Glenn location was short grain 20Y2001. Average days to 50% heading was 80 days. Medium grain M211 was the latest variety at 86 days to reach 50% heading.

SUMMARY OF ZONE 2 RICE VARIETY TESTS

Yields in the three-replication advanced line tests averaged 8,800 lbs./ac overall, 8,960 lbs./ac at the RES/Biggs, 9,030 lbs./ac at North Butte, and 8,400 lbs./ac at South Butte (Tables 6-8). Short grain S202 was the highest yielding commercial entry at the RES with 10,150 lbs./ac. The long grain variety L208 was the highest yielding commercial variety at both North and South Butte

location with 10,910 lbs./ac and 10,280 lbs./ac. Average days to 50% heading was 84 days. The commercial standard M206 averaged 81 days over the three locations.

SUMMARY OF ZONE 3 RICE VARIETY TESTS

Grain yields in the three-replication advanced tests averaged 8,910 lbs./ac overall, 9,050 lbs./ac at North Yolo, 8,800 lbs./ac at Sutter, 11,230 lbs./ac at San Joaquin, and 8,350 lbs./ac at Yuba (Tables 9-11). The three highest yielding entries at each location: commercial variety S202 (10,750 lbs./ac), commercial variety L208 (10,460 lbs./ac), and advance breeding line 19Y1018 (10,080 lbs./ac) at North Yolo; advance line 20Y1009 (10,700 lbs./ac), S202 (10,590 lbs./ac), and 20Y1010 (10,020 lbs./ac) at Sutter; 19Y3128 (12,260 lbs./ac), 18Y3018 (12,130 lbs./ac), and 18Y3102 (11,800 lbs./ac) at San Joaquin; and L208 (9,930 lbs./ac), 19Y1018 (9,560 lbs./ac), and 20Y1009 (9,390 lbs./ac) at Yuba. The average grain moisture at harvest was 16.5%, average lodging 29%, average days to 50% heading 86 days, average seedling vigor 4.8, and average plant height 98 cm.

A nine-location combined yield and agronomic performance summary is given in Table 3. Entries are ranked by grain yield with the highest yielding entry appearing first. A 5-year yield summary of selected commercial rice varieties by location and year (2020-2024) is presented in Table 13.

Comparing the commercial standard medium grain entries over a 5-year period and across locations M211, M105, and M206 were the three highest yielding varieties (Table 13).

ACKNOWLEDGEMENTS

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Table 1. Characteristics of Public California Rice Varieties-2024

CHARACTERISTICS OF PUBLIC CALIFORNIA RICE VARIETIES - 2024						
Grain Type	Maturity	Year Seed Widely Available	Stem Rot Score ¹	Seedling Vigor ²	Comments	
Short Grain			(0-10)	(1-5)		
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.	
S-202 ^{6,7}	Very Early to Early	2019	3.0	4.8	Early, glabrous, and high yielding short grain variety. S-202 is an alternative to S-102	
Medium Grains						
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.	
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.	
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.	
M-210 ^{6,7}	Early	2019	5.3	4.8	Early, high yielding, blast disease resistant Calrose-type medium. It has similar attributes to M-206 and is adapted in areas where M-206 is grown.	
M-211 ^{6,7}	Early	2022	3.7	4.8	Early, high yielding, semi-dwarf, high quality medium grain variety developed as an alternative to M-209 and a replacement for M-205	
Long Grains						
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.	
L-208 ^{6,7}	Early	2019	3.0	4.8	Early, high yielding, glabrous long grain variety. L-208 is an alternative to L-207.	
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	
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.	
Calhikari-203 ^{5,6,7}	Early	2023	3.0	4.8	<i>Premium quality</i> short grain developed for the Japanese premium short-grain market. CH-203 has a yield advantage over both CH-201 and CH-202. 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.	
Calaroma-201 ^{5,6,7}	Early	2019	3.5	4.8	Jasmine type long grain. Calaroma has quality attributes that can compete with imports Jasmine varieties.	
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 under the Plant Variety Protection Act and only to be sold as a class of certified seed.

⁷ Utility Patent

Table 2. 2024 Weather Data - Daily Maximums and Minimums (°F)

	Colusa (Z1)		Glenn (Z1)		North Butte (Z2)		South Butte (Z2)		San Joaquin (Z3)		Sutter (Z3)		North Yolo (Z3)		South Yolo (Z3)		Yuba (Z3)	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1-Aug	64	91	62	95	65	92	64	93	53	99	63	95	61	91			58	102
2-Aug	65	93	64	98	65	94	63	92	60	92	64	91	65	91			61	98
3-Aug	67	95	68	99	70	93	69	95	64	100	68	95	67	92			65	100
4-Aug	66	91	64	94	67	92	65	97	59	96	63	91	64	92			64	100
5-Aug	59	88	56	92	62	88	60	90	55	92	59	86	57	89			57	96
6-Aug	60	94	68	95	60	91	58	91	51	101	59	97	57	91			52	99
7-Aug	64	94	63	96	63	92	59	93	55	100	62	92	63	92			57	101
8-Aug	62	91	62	93	63	89	62	90	60	93	61	87	61	90			61	95
9-Aug	61	89	60	93	62	89	60	91	56	95	59	89	59	89			56	96
10-Aug	60	91	57	95	59	88	58	89	57	95	57	92	57	91			54	95
11-Aug	62	86	59	89	62	85	60	91	57	89	59	84	59	86			57	90
12-Aug	58	84	56	88	58	83	58	86	51	86	56	82	56	87			56	87
13-Aug	58	84	55	87	57	83	56	86	51	90	56	88	55	85			55	87
14-Aug	60	86	58	92	59	86	58	89	54	93	59	88	59	88			58	92
15-Aug	60	89	58	91	59	89	59	90	55	90	59	93	59	89			59	93
16-Aug	62	86	60	90	61	87	60	88	52	94	59	93	59	89			60	92
17-Aug	59	84	58	87	60	83	63	87	62	83	59	81	60	82			60	84
18-Aug	57	83	54	85	58	82	59	82	55	86	58	86	57	82			57	85
19-Aug	56	85	53	87	55	84	55	85	54	89	57	88	56	85			52	92
20-Aug	57	86	55	89	55	85	54	86	48	93	56	92	55	91			51	93
21-Aug	58	85	56	88	59	86	59	86	55	90	58	85	58	86			58	87
22-Aug	57	81	56	87	57	79	60	82	49	80	58	79	57	82			57	80
23-Aug	53	72	51	77	56	72	56	72	56	77	54	72	55	73			54	74
24-Aug	57	75	57	79	58	74	55	74	56	82	59	74	58	74			56	75
25-Aug	54	87	53	93	54	84	53	83	52	89	55	83	54	82			52	86
26-Aug	55	90	54	96	55	89	53	88	49	96	56	90	54	92			53	91
27-Aug	56	91	55	95	57	91	53	91	51	99	57	96	55	93			52	96
28-Aug	58	95	59	97	59	94	55	94	52	99	59	93	57	95			55	97
29-Aug	56	89	55	94	56	90	53	91	53	92	57	94	54	90			51	92
30-Aug	57	88	57	92	57	88	56	90	53	92	57	90	56	89			53	92
31-Aug	58	90	57	93	57	91	54	92	52	93	57	94	55	93			56	94
1-Sep	56	86	55	91	58	88	56	92	59	89	57	85	55	91			56	89
2-Sep	53	85	52	91	54	83	56	84	54	86	56	83	54	84			51	87
3-Sep	53	96	55	100	54	95	50	93	48	101	54	89	52	90			48	95
4-Sep	54	98	55	101	56	99	54	96	54	102	58	99	55	99			56	102
5-Sep	58	94	59	99	60	97	58	96	54	102	59	97	56	96			55	99
6-Sep	58	94	67	98	58	94	56	96	56	102	59	99	54	96			55	100
7-Sep	56	89	54	96	60	91	58	95	57	99	59	88	58	90			59	93
8-Sep	51	90	49	96	51	89	47	91	52	103	54	93	49	91			47	95
9-Sep	55	96	55	99	55	95	55	95	59	97	58	96	55	95			57	99
10-Sep	53	84	54	89	56	84	54	88	53	81	55	80	54	85			54	84
11-Sep	51	82	51	85	54	83	51	84	49	86	54	83	50	85			53	86
12-Sep	51	84	51	93	54	83	52	84	47	88	53	82	51	81			46	86
13-Sep	51	89	51	93	50	87	48	90	48	93	52	88	49	89			47	90
14-Sep	52	87	53	91	53	86	49	91	48	91	53	87	50	89			50	91
15-Sep	53	76	51	80	56	76	59	79	54	76	56	75	55	79			55	78
16-Sep	50	72	50	74	51	72	52	72	54	72	53	70	51	71			48	73
17-Sep	52	77	51	78	56	74	56	77	55	77	54	74	55	76			55	77
18-Sep	54	79	54	82	55	76	55	79	55	78	55	75	56	76			56	78
19-Sep	52	87	55	91	52	85	51	88	48	84	52	91	53	86			52	88
20-Sep	52	94	53	98	53	91	52	93	50	86	51	88	52	90			49	92
21-Sep	53	90	52	90	54	86	52	91	52	92	53	87	52	88			50	89
22-Sep	52	94	53	97	53	91	50	93	53	89	52	91	53	94			53	94
23-Sep	52	98	53	101	54	95	49	99	52	91	51	92	53	97			53	97
24-Sep	54	96	55	101	55	92	54	102	56	97	53	98	56	102			56	102
25-Sep	55	87	55	87	55	84	58	79	57	80	55	87	48	87			56	83
26-Sep	50	90	51	89	49	88	48	88	49	86	48	87	48	89			48	89
27-Sep	49	93	51	95	49	88	44	98	48	93	49	95	49	95			49	95
28-Sep	50	95	54	94	53	92	48	93	48	92	50	92	50	94			50	94
29-Sep	48	92	50	92	49	87	51	87	51	88	48	89	52	90			52	90
30-Sep	50	95	54	98	50	91	45	95	49	89	49	91	48	94			48	94
1-Oct	50	100	55	104	50	97			50	102	50	96	52	110			52	99
2-Oct	52	83	55	101	53	97			56	105	53	100					57	101
3-Oct			53	95	51	92			54	105	50	98					51	97
4-Oct			50	93	48	90			53	100	52	95					58	96
5-Oct			53	99	55	96			55	100	54	96					55	97
6-Oct			54	106	55	99			59	101	53	97					57	98
7-Oct			54	103	56	98			57	101	55	98					55	98
8-Oct			53	100	54	99			55	99	53	99					53	100
9-Oct			48	92	48	85					51	85					52	85
10-Oct			52	86	48	86					54	58					48	84
11-Oct			51	83	49	83											45	79
12-Oct			52	72	56	67											48	78
13-Oct			54	88	52	84												
14-Oct			49	90	51	85												
15-Oct			50	86	50	84												
16-Oct			55	78														
17-Oct			52	76														
18-Oct			51	78														
19-Oct			47	90														
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31-Oct																		

Table 4. 2024 Colusa Zone 1 Variety Trials

3 Rep Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Rank	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (0-100)	Plant Height (cm)
		Yield	Rank						
20Y1010	L	10,380	1	13	4.8	74	7	95	
L-208	L	9,890	2	13	4.8	74	33	90	
18Y3018	M	9,890	3	19	4.7	80	7	105	
L-207	L	9,750	4	15	4.7	82	7	106	
S-202	S	9,630	5	16	4.9	75	97	101	
20Y1009	L	9,600	6	16	4.7	73	37	92	
19Y3128	M	9,570	7	19	4.8	83	93	107	
19Y1018	L	9,570	8	14	4.7	74	3	92	
CJ-201	L	9,470	9	14	4.7	85	3	91	
M-210	M	9,300	10	17	4.8	77	17	103	
20Y2124	S	9,250	11	17	4.9	82	67	110	
19Y3105	M	9,220	12	18	4.8	81	27	111	
18Y3102	M	9,210	13	18	4.7	76	0	103	
CM-203	S	9,170	14	18	4.9	74	67	109	
M-105	M	9,090	15	17	4.7	74	0	97	
M-209	M	8,990	16	16	4.7	84	47	105	
M-206	M	8,970	17	17	4.8	76	7	102	
M-211	M	8,860	18	18	4.8	84	13	108	
20Y2001	S	8,810	19	17	4.9	75	100	96	
CH-203	S	8,690	20	18	4.8	78	50	98	
18Y2070	M	8,690	21	17	4.8	82	77	106	
20Y4033	M	8,690	22	18	4.8	75	97	105	
A-202	L	8,460	23	16	4.8	79	33	98	
16Y2028	S	8,050	24	17	4.8	77	100	99	
CA-201	S	7,280	25	17	4.7	79	73	97	
89Y235	M	7,200	26	18	4.7	78	90	101	
CT-202	L	6,690	27	12	4.7	82	0	99	
MEAN		8,970		17	4.8	78	43	101	
5%LSD		1,112		2	0.1	2	51	6	
CV		8		7	1.6	1	73	4	

2 Rep Advanced Lines and Varieties

22Y2154	S	10,270	1	18	4.8	82	5	105
22Y3173	M	9,880	2	18	4.8	86	0	107
23Y1027	L	9,840	3	15	4.8	84	10	104
22Y3195	M	9,780	4	18	4.8	82	30	103
23Y1031	L	9,680	5	14	4.7	79	0	104
22Y2153	S	9,560	6	18	4.8	80	100	105
22Y3124	M	9,520	7	18	4.8	81	75	103
23Y1011	L	9,520	8	13	4.8	80	0	110
23Y1026	L	9,510	9	15	4.7	75	0	99
22Y3178	M	9,370	10	19	4.8	83	50	100
23Y1006	L	9,310	11	13	4.7	74	0	97
S-102	S	8,240	12	13	4.7	73	20	98
CH-201	S	8,200	13	17	4.8	80	95	98
CM-101	S	7,230	14	16	4.8	73	85	94
MEAN		9,280		16	4.7	79	34	102
5%LSD		607		1	0.1	3	30	6
CV		3		4	1.1	2	41	3

2 Rep Preliminary Lines and Varieties

23Y1072	L	9,980	1	13	4.8	79	0	101
23Y2026	S	9,700	2	17	4.7	80	0	104
22Y3183	M	9,370	3	18	4.8	82	0	103
23Y3091	M	9,300	4	18	4.8	85	0	106
23Y3111	M	9,190	5	17	4.8	81	0	104
23Y1063	L	8,870	6	16	4.8	82	0	96
23Y2055	S	8,850	7	18	4.8	80	100	99
23Y2064	S	8,850	8	18	4.8	80	0	105
CH-203	S	8,700	9	17	4.8	77	0	95
23Y4171	M	8,590	10	18	4.6	75	0	105
23Y4202	M	8,510	11	17	4.8	75	0	99
M-521	M	8,440	12	17	4.8	75	0	99
22Y1076	L	8,380	13	15	4.7	83	0	100
22Y1074	L	8,050	14	14	4.8	81	0	94
MEAN		8,910		17	4.7	79	7	100
5%LSD		681		1	0.1	2	0	8
CV		4		3	1.1	1	0	4

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 5. 2024 Glenn Zone 1 Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank					
S-202	S	10,680	1	14	4.9	80	80	96
L-208	L	10,500	2	14	4.7	76	67	98
20Y2001	S	10,410	3	15	4.8	82	90	96
20Y1010	L	9,750	4	13	4.8	75	80	97
CM-203	S	9,660	5	15	4.8	78	100	106
20Y1009	L	9,490	6	14	4.8	75	77	97
L-207	L	9,470	7	12	4.7	81	3	106
18Y3102	M	9,360	8	17	4.6	79	17	103
19Y3128	M	9,260	9	14	4.6	85	10	105
19Y1018	L	9,210	10	14	4.7	77	75	100
20Y4033	M	9,210	11	17	4.8	79	100	104
CJ-201	L	9,120	12	11	4.8	86	23	95
M-211	M	9,070	13	16	4.8	86	0	100
M-206	M	8,960	14	15	4.8	80	50	99
A-202	L	8,840	15	15	4.8	78	83	101
20Y2124	S	8,630	16	13	4.8	82	70	100
16Y2028	S	8,590	17	14	4.8	80	100	104
19Y3105	M	8,570	18	17	4.7	85	7	104
M-105	M	8,530	19	13	4.8	77	80	101
CH-203	S	8,360	20	14	4.8	82	82	98
M-210	M	8,280	21	15	4.8	79	77	102
18Y3018	M	8,050	22	17	4.7	84	20	97
M-209	M	8,030	23	16	4.7	85	0	100
89Y235	M	7,740	24	14	4.7	82	90	102
18Y2070	M	7,610	25	15	4.7	85	93	106
CT-202	L	6,840	26	13	4.8	83	40	94
CA-201	S	6,310	27	11	4.8	80	83	102
MEAN		8,790		14	4.8	81	59	101
5%LSD		1,051		3	0.1	2	42	6
CV		7		12	1.5	2	43	4

2 Rep Advanced Lines and Varieties

22Y2154	S	10,790	1	13	4.8	83	60	101
23Y1031	L	10,280	2	11	4.9	81	15	107
23Y1026	L	10,240	3	13	4.8	81	40	106
23Y1011	L	10,050	4	11	4.8	81	15	104
23Y1006	L	9,620	5	11	4.8	77	100	102
22Y2153	S	9,390	6	13	4.8	79	100	101
23Y1027	L	9,300	7	14	4.9	81	10	99
22Y3124	M	8,540	8	16	4.8	85	40	106
22Y3195	M	8,380	9	17	4.8	85	0	104
22Y3178	M	8,340	10	17	4.8	86	0	103
CH-201	S	8,010	11	11	4.9	82	100	98
S-102	S	7,880	12	12	4.8	76	100	106
22Y3173	M	7,860	13	18	4.8	87	0	102
CM-101	S	7,240	14	11	4.8	78	65	102
MEAN		8,990		13	4.8	81	46	103
5%LSD		1,872		3	0.1	1	62	7
CV		10		11	1.0	1	62	3

2 Rep Preliminary Lines and Varieties

23Y2055	S	10,260	1	13	4.7	79	95	103
23Y1072	L	9,480	2	10	4.9	78	80	100
23Y1063	L	9,390	3	12	4.8	85	0	100
M-521	M	9,300	4	14	4.9	80	5	95
23Y4171	M	9,270	5	15	4.7	79	90	103
22Y1076	L	9,260	6	10	4.8	86	0	99
23Y3111	M	9,090	7	16	4.8	87	0	104
23Y4202	M	9,070	8	16	4.7	78	0	99
CH-203	S	8,570	9	13	4.9	79	70	97
23Y3091	M	8,110	10	17	4.8	87	0	101
22Y3183	M	8,060	11	17	4.8	85	0	104
23Y2064	S	7,910	12	15	4.8	85	10	95
22Y1074	L	7,750	13	13	4.9	82	0	95
23Y2026	S	6,870	14	17	4.7	87	0	100
MEAN		8,740		14	4.8	82	25	99
5%LSD		1,084		3	0.2	2	16	8
CV		6		10	1.5	1	29	4

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 6. 2024 RES Zone 2 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank	Rank					
20Y2124	S	10,450	1	17	4.9	85	23	104	
S-202	S	10,150	2	17	4.9	86	23	95	
L-207	L	10,040	3	17	4.9	87	3	110	
20Y1010	L	10,040	4	18	4.9	82	16	99	
L-208	L	9,910	5	18	4.9	83	7	97	
20Y2001	S	9,690	6	17	4.9	86	22	94	
CJ-201	L	9,680	7	15	4.9	90	11	96	
M-209	M	9,520	8	19	4.9	88	8	103	
19Y3105	M	9,520	9	19	4.9	89	21	112	
20Y1009	L	9,520	10	19	4.9	82	33	104	
M-211	M	9,490	11	19	4.9	89	16	105	
21Y2031	S	9,460	12	13	5.0	76	0	95	
19Y1018	L	9,180	13	18	4.8	82	15	103	
18Y3102	M	9,170	14	18	4.9	83	4	105	
16Y2028	S	9,120	15	18	4.9	85	46	110	
18Y2070	M	8,990	16	19	4.9	88	35	110	
M-210	M	8,940	17	20	4.9	81	26	101	
CM-203	S	8,860	18	18	5.0	85	20	105	
19Y3128	M	8,840	19	19	4.9	89	29	103	
18Y3018	M	8,760	20	21	4.9	83	5	101	
A-202	L	8,670	21	18	4.9	86	13	106	
CH-203	S	8,390	22	18	4.9	85	19	91	
M-105	M	8,390	23	18	4.9	80	20	101	
M-206	M	8,210	24	19	5.0	80	25	101	
20Y4033	M	7,960	25	20	4.9	81	32	101	
89Y235	M	7,450	26	16	4.8	86	34	94	
CT-202	L	7,230	27	14	4.9	84	0	101	
CA-201	S	6,140	28	16	4.9	83	34	102	
MEAN		8,960		18	4.9	85	20	102	
5%LSD		1,080		3	0.1	6	31	10	
CV		13		16	1.4	8	171	10	

2 Rep Advanced Lines and Varieties

23Y1026	L	10,150	1	18	4.9	84	2	102
23Y1027	L	9,980	2	18	4.9	85	0	105
23Y1006	L	9,830	3	18	4.9	83	25	101
23Y1031	L	9,750	4	17	4.9	86	16	108
23Y1011	L	9,720	5	17	4.9	88	0	103
22Y3173	M	9,610	6	21	4.9	92	8	102
22Y3178	M	9,220	7	21	4.9	90	6	104
22Y2153	S	9,060	8	19	4.9	89	30	98
22Y3124	M	8,780	9	20	4.9	84	5	100
22Y3195	M	8,750	10	21	4.9	89	3	100
22Y2154	S	8,720	11	18	4.9	89	32	103
S-102	S	7,840	12	13	4.9	81	33	107
CH-201	S	7,700	13	16	4.9	85	37	98
CM-101	S	6,850	14	15	4.9	82	32	99
MEAN		9,000		18	4.9	86	16	102
5%LSD		1,493		4	0.1	8	38	7
CV		14		19	1.4	8	201	6

2 Rep Preliminary Lines and Varieties

23Y3091	M	10,070	1	20	4.9	91	13	102
23Y1072	L	9,770	2	16	4.9	84	19	99
23Y1063	L	9,540	3	19	4.9	90	0	103
22Y3183	M	9,370	4	21	4.9	87	2	102
23Y2064	S	9,270	5	19	4.9	88	7	101
23Y3111	M	9,220	6	19	4.9	89	14	106
23Y2026	S	9,070	7	18	4.9	90	1	100
23Y4202	M	8,750	8	20	4.9	80	22	100
M-521	M	8,660	9	20	5.0	81	12	96
22Y1076	L	8,450	10	17	4.9	89	0	97
22Y1074	L	8,370	11	17	4.9	87	0	91
CH-203	S	8,160	12	18	4.9	85	8	97
23Y2055	S	8,040	13	19	4.8	84	29	95
23Y4171	M	7,780	14	19	4.8	81	21	102
MEAN		8,890		19	4.9	86	11	99
5%LSD		1,089		3	0.1	8	28	7
CV		11		14	1.6	8	230	6

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 7. 2024 N. Butte Zone 2 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank					
L-208	L	10,910	1	18	4.8	75	33	100
19Y1018	L	10,740	2	18	4.8	76	13	104
20Y1010	L	10,680	3	18	4.8	76	40	103
A-202	L	10,250	4	19	4.9	82	33	106
20Y2001	S	10,070	5	21	4.8	84	87	101
CJ-201	L	9,870	6	17	4.8	86	57	107
L-207	L	9,750	7	18	4.8	81	3	114
18Y3102	M	9,750	8	20	4.8	80	0	105
M-211	M	9,710	9	20	4.8	86	7	108
19Y3128	M	9,640	10	21	4.8	86	27	111
18Y3018	M	9,570	11	20	4.8	83	17	105
CH-203	S	9,540	12	20	4.8	84	43	109
S-202	S	9,450	13	20	4.8	80	57	104
20Y1009	L	9,390	14	19	4.8	76	73	105
M-209	M	9,130	15	21	4.8	87	10	109
M-105	M	9,110	16	20	4.7	77	80	107
M-206	M	8,920	17	19	4.8	79	80	110
19Y3105	M	8,490	18	20	4.8	85	0	116
16Y2028	S	8,460	19	21	4.8	82	93	114
M-210	M	8,360	20	20	4.8	78	63	101
20Y2124	S	8,250	21	21	4.8	83	90	114
89Y235	M	7,770	22	19	4.8	83	100	111
20Y4033	M	7,690	23	21	4.8	79	100	107
CM-203	S	7,530	24	21	4.8	79	87	106
18Y2070	M	7,210	25	21	4.8	87	20	117
CA-201	S	7,090	26	18	4.7	81	67	104
CT-202	L	6,040	27	18	4.8	84	40	102
MEAN		8,250		20	4.8	81	49	107
5%LSD		1,690		1	0.1	2	54	5
CV		10		4	0.9	1	69	3

2 Rep Advanced Lines and Varieties

22Y2154	S	10,580	1	20	4.8	86	15	107
23Y1026	L	10,530	2	18	4.8	81	0	111
23Y1006	L	10,340	3	18	4.8	79	25	111
22Y3124	M	10,020	4	20	4.9	85	25	112
23Y1027	L	9,990	5	18	4.8	82	20	110
22Y3195	M	9,960	6	20	4.8	87	0	111
23Y1011	L	9,950	7	18	4.9	82	25	109
23Y1031	L	9,520	8	18	4.8	82	20	112
22Y2153	S	9,490	9	21	4.8	86	50	106
22Y3173	M	9,480	10	20	4.8	83	0	104
22Y3178	M	9,280	11	21	4.8	87	0	112
CH-201	S	7,730	12	18	4.7	86	45	103
CM-101	S	7,250	13	18	4.6	80	60	108
S-102	S	7,030	14	18	4.8	82	100	108
MEAN		9,370		19	4.8	83	28	109
5%LSD		1,450		1	0.1	6	60	5
CV		7		3	0.8	3	100	2

2 Rep Preliminary Lines and Varieties

22Y3183	M	9,950	1	20	4.8	85	5	108
23Y3111	M	9,750	2	21	4.8	82	0	111
CH-203	S	9,640	3	18	4.9	84	0	105
23Y4202	M	9,560	4	19	4.8	77	5	106
23Y2055	S	9,430	5	21	4.8	83	85	106
22Y1076	L	9,370	6	17	4.8	85	0	104
23Y4171	M	9,360	7	19	4.6	78	55	103
23Y1063	L	9,150	8	18	4.9	83	0	105
23Y2026	S	9,010	9	19	4.8	84	0	111
22Y1074	L	8,680	10	17	4.9	82	0	97
23Y1072	L	8,580	11	17	5.0	80	15	109
M-521	M	8,550	12	19	4.9	78	70	107
23Y3091	M	8,450	13	21	4.8	88	0	109
23Y2064	S	8,240	14	20	4.8	86	0	103
MEAN		9,120		19	4.8	82	17	106
5%LSD		1,107		1	0.1	4	38	7
CV		6		3	0.9	2	105	3

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 8. 2024 S. Butte Zone 2 Variety Trials

3 Rep Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/ac		Rank	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (0-100)	Plant Height (cm)
		Yield	Rank						
20Y1009	L	10,760	1	15	4.9	75	100	98	
19Y1018	L	10,620	2	16	4.8	75	90	102	
20Y1010	L	10,470	3	17	4.7	76	77	101	
L-208	L	10,280	4	16	4.8	75	60	101	
S-202	S	9,750	5	16	4.8	81	100	99	
20Y2001	S	9,740	6	16	4.8	81	97	101	
18Y3102	M	9,710	7	18	4.8	86	37	107	
L-207	L	9,510	8	17	4.8	85	90	107	
M-105	M	9,060	9	17	4.8	81	100	100	
M-210	M	8,820	10	17	4.8	83	90	100	
M-209	M	8,690	11	18	4.8	90	43	99	
M-206	M	8,620	12	18	4.8	84	100	102	
18Y3018	M	8,470	13	17	4.8	87	90	100	
M-211	M	8,310	14	15	4.8	91	93	101	
19Y3128	M	8,200	15	17	4.8	90	97	104	
20Y4033	M	8,110	16	16	4.8	83	100	106	
CH-203	S	8,010	17	18	4.8	89	95	93	
CM-203	S	7,880	18	19	4.8	82	93	104	
CJ-201	L	7,830	19	16	4.8	91	7	92	
20Y2124	S	7,830	20	12	4.8	86	100	110	
A-202	L	7,790	21	17	4.8	85	67	101	
19Y3105	M	7,510	22	16	4.8	88	30	110	
16Y2028	S	7,300	23	17	4.8	86	100	108	
89Y235	M	6,580	24	17	4.7	86	97	120	
18Y2070	M	6,140	25	17	4.8	89	40	114	
CA-201	S	5,900	26	18	4.8	85	80	97	
CT-202	L	5,210	27	17	4.9	87	23	99	
MEAN		8,400		17	4.8	85	78	102	
5%LSD		903		2	0.1	2	28	6	
CV		7		8	1.0	2	22	4	

2 Rep Advanced Lines and Varieties

23Y1031	L	10,400	1	15	4.8	81	100	107
23Y1006	L	9,850	2	17	4.8	77	95	103
23Y1027	L	9,380	3	17	4.8	83	70	105
22Y2154	S	9,270	4	15	4.9	87	100	103
23Y1011	L	9,160	5	17	4.9	86	30	105
23Y1026	L	8,860	6	16	4.8	82	100	112
22Y3124	M	8,630	7	17	4.8	87	95	100
22Y3195	M	8,130	8	16	4.8	90	95	110
22Y2153	S	7,970	9	15	4.8	86	100	97
22Y3173	M	7,720	10	18	4.8	92	5	100
S-102	S	7,210	11	17	4.8	79	100	99
22Y3178	M	6,960	12	18	4.8	90	100	100
CH-201	S	6,090	13	17	4.9	90	100	92
CM-101	S	5,920	14	17	4.8	79	100	101
MEAV		8,250		16	4.8	85	85	102
5%LSD		1,690		2	0.1	2	26	7
CV		10		5	0.8	1	14	3

2 Rep Preliminary Lines and Varieties

23Y1072	L	9,150	1	16	4.9	82	95	103
23Y4171	M	9,140	2	17	4.6	82	100	104
23Y3111	M	9,050	3	18	4.8	90	90	106
M-521	M	9,030	4	19	4.8	82	100	102
23Y2055	S	8,930	5	17	4.8	85	100	107
23Y4202	M	8,520	6	18	4.8	76	100	103
22Y3183	M	8,390	7	19	4.8	88	70	104
22Y1076	L	8,380	8	17	4.8	84	0	104
23Y3091	M	8,300	9	19	4.8	90	0	109
22Y1074	L	8,230	10	18	4.8	84	0	97
23Y1063	L	8,200	11	17	4.8	86	5	96
23Y2026	S	7,730	12	18	4.8	89	10	108
CH-203	S	7,350	13	19	4.8	87	100	93
23Y2064	S	7,090	14	19	4.8	90	0	105
MEAN		8,390		18	4.8	85	55	103
5%LSD		749		2	0.1	3	18	7
CV		4		4	0.7	2	15	3

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 9. 2024 N. Yolo Zone 3 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank	Rank					
S-202	S	10750	1	17	4.8	82	0	97	
L-208	L	10460	2	18	4.8	81	20	100	
19Y1018	L	10080	3	18	4.8	82	0	101	
16Y2028	S	9900	4	18	4.8	83	0	110	
20Y1010	L	9860	5	18	4.7	82	0	94	
20Y4033	M	9850	6	19	4.8	82	0	109	
19Y3128	M	9810	7	19	4.8	89	0	103	
20Y1009	L	9780	8	18	4.8	81	0	95	
M-211	M	9660	9	19	4.8	88	0	102	
20Y2001	S	9660	10	18	4.8	82	0	93	
18Y3018	M	9640	11	20	4.7	86	0	100	
CM-203	S	9560	12	18	4.8	83	0	107	
20Y2124	S	9450	13	18	4.8	86	0	105	
19Y3105	M	9370	14	20	4.8	89	0	111	
L-207	L	9180	15	17	4.7	85	0	105	
M-210	M	9160	16	20	4.8	83	0	100	
18Y2070	M	9120	17	18	4.8	85	0	110	
M-206	M	9090	18	19	4.8	83	0	102	
M-209	M	9040	19	19	4.7	87	0	101	
M-105	M	9030	20	19	4.7	81	0	103	
A-202	L	8850	21	18	4.8	85	0	100	
18Y3102	M	8800	22	18	4.8	84	0	104	
CJ-201	L	8710	23	17	4.8	89	0	88	
CH-203	S	7880	24	17	4.8	83	0	94	
89Y235	M	7250	25	17	4.8	83	0	105	
CA-201	S	5880	26	17	4.8	81	0	98	
CT-202	L	5590	27	17	4.7	86	0	87	
MEAN		9050		18	4.8	84	1	101	
5%LSD		591		0	0.1	1	11	6	
CV		4		2	1.2	1	908	3	

2 Rep Advanced Lines and Varieties

23Y1006	L	10,200	1	18	4.9	82	0	98
23Y1011	L	10,200	2	17	4.7	84	0	104
23Y1031	L	10,170	3	18	4.8	84	0	101
22Y2154	S	10,140	4	18	4.8	86	0	106
22Y2153	S	9,950	5	19	4.8	85	0	100
22Y3124	M	9,880	6	19	4.8	86	0	101
23Y1027	L	9,870	7	18	4.9	83	0	91
22Y3178	M	9,750	8	19	4.8	88	0	107
23Y1026	L	9,580	9	18	4.8	83	0	97
22Y3195	M	9,320	10	19	4.9	87	0	104
22Y3173	M	8,630	11	21	4.8	91	0	101
CH-201	S	8,130	12	17	4.8	82	10	91
S-102	S	7,900	13	16	4.8	80	0	104
CM-101	S	6,720	14	16	4.8	80	0	96
MEAN		9,320		18	4.8	84	1	100
5%LSD		506		1	0.2	2	8	4
CV		3		3	1.6	1	529	2

2 Rep Preliminary Lines and Varieties

23Y3091	M	9,860	1	20	4.8	88	0	103
23Y3111	M	9,800	2	19	4.8	88	0	101
23Y2055	S	9,750	3	18	4.7	85	0	102
23Y1072	L	9,640	4	17	4.8	83	0	99
M-521	M	9,470	5	19	4.8	83	0	98
23Y4171	M	9,380	6	18	4.7	82	0	100
23Y4202	M	8,970	7	19	4.8	83	0	97
23Y2026	S	8,950	8	18	4.8	88	0	103
22Y3183	M	8,800	9	18	4.8	87	0	102
23Y1063	L	8,600	10	18	4.9	87	0	90
22Y1074	L	8,570	11	18	4.9	83	0	88
23Y2064	S	8,350	12	19	4.9	89	0	105
22Y1076	L	7,820	13	17	4.7	87	0	89
CH-203	S	7,290	14	17	4.8	84	0	96
MEAN		8,950		18	4.8	85	0	98
5%LSD		733		1	0.2	3	0	6
CV		4		2	1.7	1	0	3

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 10. 2024 Sutter Zone 3 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank					
20Y1009	L	10,700	1	16	4.8	77	60	91
S-202	S	10,590	2	16	4.8	77	100	89
20Y1010	L	10,020	3	17	4.8	77	0	88
16Y2028	S	9,870	4	18	4.8	80	97	100
CM-203	S	9,670	5	18	4.8	76	43	99
20Y2001	S	9,660	6	17	4.8	78	80	93
L-208	L	9,600	7	17	4.8	76	0	89
20Y4033	M	9,590	8	18	4.8	78	90	96
19Y1018	L	9,450	9	17	4.7	79	0	94
18Y3018	M	9,230	10	18	4.8	82	0	95
19Y3128	M	9,160	11	18	4.8	83	0	99
M-105	M	9,090	12	18	4.8	76	0	98
M-206	M	8,820	13	18	4.8	80	0	100
L-207	L	8,730	14	16	4.8	82	0	99
M-210	M	8,710	15	18	4.8	80	0	96
CH-203	S	8,680	16	18	4.8	82	0	92
20Y2124	S	8,660	17	17	4.8	82	10	101
M-211	M	8,640	18	17	4.8	85	0	95
M-209	M	8,540	19	18	4.7	84	0	93
18Y3102	M	8,540	20	18	4.7	78	0	95
A-202	L	8,350	21	17	4.9	79	0	96
19Y3105	M	8,180	22	18	4.8	85	0	104
CJ-201	L	8,080	23	17	4.8	86	0	88
89Y235	M	7,800	24	16	4.8	82	100	97
18Y2070	M	7,510	25	17	4.8	86	3	102
CA-201	S	6,520	26	17	4.8	79	0	92
CT-202	L	5,390	27	16	4.8	81	0	88
MEAN		8,800		17	4.8	80	21	95
5%LSD		848		1	0.1	3	19	5
CV		6		3	0.9	2	55	3

2 Rep Advanced Lines and Varieties

22Y2154	S	10,140	1	17	4.8	84	0	98
23Y1031	L	9,750	2	16	4.8	80	0	97
22Y2153	S	9,600	3	17	4.8	82	100	94
23Y1026	L	9,340	4	17	4.8	81	0	97
23Y1011	L	9,190	5	16	4.9	80	0	95
23Y1006	L	9,130	6	17	4.8	78	20	94
22Y3124	M	9,080	7	18	4.7	83	0	98
23Y1027	L	8,890	8	17	4.8	82	0	94
22Y3195	M	8,860	9	18	4.8	85	0	97
22Y3178	M	8,840	10	18	4.8	85	0	98
S-102	S	8,610	11	16	4.8	75	25	100
CH-201	S	8,280	12	17	4.9	82	10	90
CM-101	S	8,070	13	16	4.8	76	20	98
22Y3173	M	7,960	14	18	4.8	86	0	93
MEAV		8,980		17	4.8	81	13	96
5%LSD		937		1	0.1	1	28	5
CV		5		3	0.9	1	105	3

2 Rep Preliminary Lines and Varieties

23Y2055	S	10,770	1	18	4.8	80	95	96
23Y4171	M	9,590	2	18	4.7	79	0	98
23Y1072	L	9,440	3	16	4.9	79	0	95
23Y4202	M	9,270	4	18	4.8	77	0	101
CH-203	S	9,060	5	18	4.9	82	0	89
23Y3111	M	8,900	6	18	4.8	86	0	97
22Y3183	M	8,850	7	18	4.8	84	0	94
M-521	M	8,850	8	17	5.0	79	0	91
23Y1063	L	8,610	9	17	4.8	84	0	94
23Y2026	S	8,500	10	19	4.8	86	0	95
22Y1076	L	8,060	11	17	4.8	85	0	89
23Y2064	S	8,000	12	19	4.8	82	0	99
23Y3091	M	7,890	13	18	4.8	86	0	96
22Y1074	L	6,640	14	16	4.8	82	0	85
MEAN		8,750		18	4.8	82	7	94
5%LSD		912		1	0.1	2	4	4
CV		5		3	0.8	1	28	2

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 11. 2024 San Joaquin Zone 3 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank					
19Y3128	M	12,260	1	21	4.8	99	0	100
18Y3018	M	12,130	2	22	4.8	96	0	99
18Y3102	M	11,800	3	20	4.7	93	0	98
M-211	M	11,680	4	19	4.9	98	0	101
18Y2070	M	11,320	5	21	4.8	95	0	107
20Y4033	M	11,160	6	24	4.8	91	0	100
M-206	M	11,020	7	20	4.8	92	0	93
M-209	M	10,850	8	21	4.8	98	0	94
M-105	M	10,820	9	18	4.8	89	0	96
19Y3105	M	10,770	10	21	4.7	98	0	100
89Y235	M	10,510	11	17	4.8	89	0	94
M-210	M	10,410	12	19	4.8	92	0	97
MEAN		11,230		20	4.8	94	0	98
5%LSD		1,592		2	0.1	2	0	9
CV		8		6	1.7	1	0	6

2 Rep Advanced Lines and Varieties

22Y3178	M	12,340	1	19	4.8	99	0	92
22Y3173	M	11,180	2	19	4.8	102	0	92
22Y3195	M	11,160	3	21	4.8	98	0	92
22Y3124	M	11,030	4	20	4.8	95	0	93
MEAN		11,430		20	4.8	98	0	92
5%LSD		2,116		7	0.0	1	0	7
CV		6		11	0.0	0	0	2

2 Rep Preliminary Lines and Varieties

23Y3091	M	11,640	1	19	4.8	100	0	86
23Y4171	M	11,280	2	17	4.7	90	0	98
23Y3111	M	10,930	3	17	4.8	98	0	90
23Y4202	M	10,850	4	19	4.8	90	0	86
22Y3183	M	10,740	5	18	4.8	96	0	91
M-521	M	10,690	6	17	4.8	91	0	90
MEAN		11,020		18	4.8	94	0	90
5%LSD		1,883		6	0.1	1	0	7
CV		7		13	1.2	0	0	3

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 12. 2024 Yuba Zone 3 Rice Variety Trials

3 Rep 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 (0-100)	Plant Height (cm)
		Yield	Rank					
L-208	L	9,930	1	11	4.8	84	97	92
19Y1018	L	9,560	2	11	4.8	83	100	96
20Y1009	L	9,390	3	11	4.8	80	67	92
20Y1010	L	9,210	4	10	4.7	81	100	90
CH-203	S	9,110	5	12	4.8	85	100	94
M-206	M	9,040	6	11	4.8	84	73	100
CJ-201	L	8,960	7	10	4.7	90	97	89
16Y2028	S	8,850	8	11	4.8	86	100	99
18Y3018	M	8,760	9	10	4.7	89	100	96
M-105	M	8,720	10	11	4.8	82	100	98
18Y3102	M	8,530	11	11	4.8	83	100	96
20Y2001	S	8,520	12	10	4.8	88	97	93
M-209	M	8,490	13	11	4.8	91	93	95
S-202	S	8,470	14	10	4.8	87	100	92
L-207	L	8,460	15	11	4.8	88	83	99
A-202	L	8,330	16	13	4.8	86	87	96
M-210	M	8,080	17	11	4.8	84	100	96
19Y3105	M	8,010	18	10	4.8	92	97	104
20Y4033	M	7,970	19	10	4.8	83	100	96
CM-203	S	7,960	20	10	4.8	85	100	102
19Y3128	M	7,810	21	10	4.8	91	100	101
M-211	M	7,800	22	11	4.8	91	100	96
18Y2070	M	7,230	23	10	4.8	93	93	102
20Y2124	S	7,230	24	11	4.8	88	83	104
CA-201	S	7,200	25	11	4.8	84	100	93
89Y235	M	6,750	26	10	4.7	86	100	98
CT-202	L	6,180	27	11	4.7	90	57	90
MEAN		8,350		11	4.8	86	94	96
5%LSD		1,064		1	0.1	3	31	4
CV		8		8	1.0	2	20	3

2 Rep Advanced Lines and Varieties

23Y1031	L	10,000	1	11	4.8	84	75	98
23Y1026	L	9,650	2	11	4.8	83	95	101
23Y1006	L	9,600	3	11	4.8	80	75	96
23Y1011	L	9,110	4	13	4.8	89	45	96
22Y3178	M	8,680	5	11	4.8	92	85	98
CH-201	S	8,630	6	10	4.9	89	95	91
S-102	S	8,550	7	12	4.7	80	95	99
23Y1027	L	8,440	8	13	4.8	86	60	96
22Y3195	M	8,190	9	11	4.8	91	95	95
22Y3173	M	7,920	10	14	4.8	92	50	93
22Y2154	S	7,510	11	11	4.8	91	100	101
CM-101	S	7,330	12	13	4.6	83	100	96
22Y2153	S	7,220	13	10	4.8	90	95	95
22Y3124	M	7,190	14	12	4.8	90	95	101
MEAV		8,430		12	4.8	87	83	97
5%LSD		1,575		2	0.1	4	62	5
CV		9		9	1.0	2	35	3

2 Rep Preliminary Lines and Varieties

23Y1072	L	9,490	1	13	4.8	84	80	99
23Y4202	M	9,350	2	13	4.7	82	95	105
CH-203	S	9,130	3	16	4.8	84	60	91
23Y3091	M	8,970	4	14	4.8	93	45	99
23Y2064	S	8,750	5	15	4.8	90	80	102
23Y4171	M	8,690	6	13	4.8	83	100	102
M-521	M	8,660	7	13	4.8	85	100	94
22Y1076	L	8,490	8	13	4.8	92	65	92
23Y3111	M	8,290	9	11	4.8	92	50	98
23Y2026	S	8,090	10	16	4.8	91	70	97
22Y3183	M	7,940	11	12	4.8	90	100	96
23Y1063	L	7,930	12	15	4.8	90	70	97
23Y2055	S	7,360	13	11	4.8	86	100	99
22Y1074	L	6,580	14	16	4.8	87	5	89
MEAN		8,410		14	4.8	88	73	97
5%LSD		1,184		2	0.1	2	74	5
CV		7		6	1.0	1	47	2

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

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

Subjective rating of 0-100 where 0 = none and 100 = completely lodged.

Table 13. Grain Yield (lb./acre @14% moisture) Summary Rice Varieties by Location and Year (2020-2024)

Location	Year	M105	M206	M209	M210	M211	M521
N. Butte	2020	10300	9570	10390	8840	10570	9670
	2021	7620	7420	8460	8870	9200	8340
	2022	8940	7840	8960	8200	9260	8130
	2023	8530	9080	8360	8480	8500	9000
	2024	9110	8920	9140	8360	9710	8550
Location Mean		8900	8566	9062	8550	9448	8738
S. Butte	2020	9640	9490	9630	9660	9910	9350
	2021	9460	9260	9050	9510	8420	9010
	2022	9090	9460	9180	9330	9050	8970
	2023	9010	8890	8960	8340	9100	8410
	2024	9060	8620	8690	8820	8310	9030
Location Mean		9252	9144	9102	9132	8958	8954
Colusa	2020	8850	8820	9040	8950	8760	8490
	2021	10470	9690	10180	9480	9400	9440
	2023	8390	7920	8760	8220	8470	8470
	2024	9090	8970	8990	9300	8860	8440
Location Mean		9200	8850	9243	8988	8873	8710
Glenn	2020	9170	9500	9550	10240	8660	8840
	2021	9670	9570	8340	9780	9630	9260
	2022	7170	8600	9530	8440	8740	7770
	2023	8210	7950	8820	7890	8850	7730
	2024	8530	8960	8030	8280	9080	9300
Location Mean		8550	8916	8854	8926	8992	8580
Sutter	2020	9330	9380	8950	9450	9440	8600
	2021	8750	9610	8400	9450	9160	8320
	2022	8640	8660	8220	8780	8970	8610
	2023	9400	8450	8870	8670	9110	9140
	2024	9090	8820	8540	8710	8640	8850
Location Mean		9042	8984	8596	9012	9064	8704
North Yolo	2020	10990	9550	10010	9150	10110	9280
	2021	9350	9520	9620	9330	9930	9090
	2023	9690	10010	9670	9430	9880	9500
	2024	9030	9090	9040	9160	9660	9470
Location Mean		9765	9543	9585	9268	9895	9335
South Yolo	2023	8110	8010	8020	7660	8380	7400
Location Mean		8110	8010	8020	7660	8380	7400
Yuba	2020	7820	7920	7630	7800	8580	7990
	2021	6500	7050	7640	6550	6560	5720
	2022	8530	8710	8390	8350	8250	8260
	2023	8520	8320	7980	8300	7580	8410
	2024	8720	9040	8490	8080	7800	8660
Location Mean		8018	8208	8026	7816	7754	7808
San Joaquin	2021	10700	10090	8590	9950	9940	10710
	2022	9070	9150	7200	9060	7810	8990
	2023	8360	9490	8900	9370	9500	7670
	2024	10820	11020	10850	10410	11680	10690
Location Mean		9738	9938	8885	9698	9733	9515
Loc/Years Mean		8953	8906	8819	8783	9011	8638

