

ANNUAL REPORT COMPREHENSIVE RESEARCH ON RICE

January 1, 2009 – March 31, 2010

PROJECT TITLE: Cooperative Extension Rice Variety Adaptation and Cultural Practice Research

PROJECT LEADERS:

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OBJECTIVES AND EXPERIMENTS CONDUCTED BY LOCATION TO ACCOMPLISH OBJECTIVES:

Objective I

To evaluate newly developed cultivars and existing varieties in on-farm trials under grower conditions in cooperation with the Rice Experiment Station for the purpose of new variety development and release: Cultivar trials were conducted by maturity group at different locations in the Sacramento Valley and the San Joaquin Delta. Several experimental cultivars were evaluated at each location within these groups to compare their performance in different environments of the rice-growing region.

Very Early Maturity Group: Three uniform trials for each of the advanced and experimental lines were conducted at each of the following on-farm sites: the Lauppe Ranch (south Sutter County), the Erdman Ranch (District 108, Yolo County), and at the Del Rio Partners Ranch (San Joaquin Delta, San Joaquin County). In addition to the three on-farm sites, two additional tests were conducted at the Rice Experiment Station (RES) in Butte County. The Advanced test at each site included seventeen entries (seven commercial varieties and ten advanced breeding lines) in four replications. The Preliminary tests included 34 entries, 31 preliminary breeding lines and three commercial varieties as checks, in two replications.

Early Maturity Group: Three uniform tests were conducted at each of the following on-farm sites: the Larrabee Ranch (Glenn County), the Dennis Ranch (Colusa County), and the Marler Farms Ranch (District 10, Yuba County). Two additional trials, Advanced and Preliminary,

were conducted at the RES. The Advanced test at each site included eighteen entries (eight commercial varieties and ten advanced breeding lines) in four replications. The Preliminary tests included 36 entries, three commercial and 33 preliminary breeding lines in two replications.

Intermediate and Late Maturity Group: Two uniform tests were conducted at each of the following on-farm sites: the Wiley Ranch (Glenn County) and the Tucker Ranch (Sutter Basin, Sutter County). Two additional tests were conducted at the RES. The Advanced test at each site included thirteen entries (five commercial varieties and eight advanced breeding lines) in four replications. The Preliminary tests consisted of four commercial varieties and eighteen preliminary breeding lines in two replications.

Objective II

Cultural Practices: Rice variety tests were conducted on Twitchell Island in the western Delta as part of a larger project to evaluate rice under flooded culture as a method of preventing organic soil subsidence. Four commercial varieties with the best potential to tolerate cold temperatures (Calmochi-101, M-104, M-202 and M-206) were compared in one acre plots replicated three times. A small plot test similar to the statewide variety trials was conducted with the above four commercial varieties as standards plus S-102 and L-206 with 12 advanced cold tolerant lines. The purpose of the small plot test was to provide the RES breeders with additional information under very cold conditions. .

Objective III

Extension-Based Equipment and Service: A centrally-based equipment pool is maintained by Project RM-2 to provide services for planting, fertilizing, treatment application, and harvesting of rice and to provide professional technical assistance to UC research project leaders engaged in rice.

To provide professional technical assistance to other UC research project leaders, we assisted in approximately 32 trials including the 18 variety tests. Equipment from the UCCE-based pool for planting, fertilizing and harvesting field experiments was used at more than 18 sites at different times during the season. The most heavily used equipment were the combines followed by the Clampco precision fertilizer rig. We also continued with the prescribed maintenance program for the SWECO plot combine and initiated a maintenance program for the new ALMACO combine.

The ALMACO combine was used to harvest the first four Statewide trials, the remainder were harvested with the SWECO. Following repairs, the ALMACO was used to harvest an additional eight trials.

Objective IV

Extension Education: We disseminated research-based information to California rice producers, dryer operators, millers and the general public through two winter grower meetings, a Rice Production Workshop, field demonstrations, personal communication, and through the distribution of one fact sheet (republication of the 2009 Characteristics of Publicly Developed Varieties), the Rice Field Day Program and other printed material. We hosted the Rice Breeders Tour. Progress was made updating the UCCE rice website.

SUMMARY OF 2009 RESEARCH BY OBJECTIVE

Objective I - Rice Variety Evaluation

Eight uniform advanced breeding line trials and eight preliminary breeding line trials were conducted throughout the major rice producing areas of California. The rice breeders at the RES conducted six additional tests, two from each of the three maturity groups. Many of the experimental lines have been tested and screened in previous years and many lines were in advanced stages (2 or more years) of testing. The RES provided the seed for public varieties and experimental cultivars. No proprietary lines were tested.

The following analyses provide single-location yield summaries for the advanced line tests and over-location agronomic performance summaries for each entry in each maturity category. For quick reference, grain yields of selected commercially available varieties tested in very early, early and intermediate-late tests across years and locations are summarized in Tables 6, 12 and 17. An Agronomy Progress Report, to be published later this year, will provide agronomic performance results for all entries in each experiment.

Very Early Maturity Tests (< 90 days to 50% heading at Biggs): Seven commercial varieties and ten advanced breeding lines were compared in four very early advanced tests. Commercial varieties at each location included S-102, CM-101, M-104, M-202, M-206, L-205 and L-206. The preliminary tests included three commercial varieties and 31 preliminary lines evaluated in separate tests at each location.

Grain yields in the advanced tests averaged 8,740 lb/ac at Biggs-RES, 9,470 lb/ac at Sutter, 11,530 lb/ac at Yolo, and 8,130 lb/ac at San Joaquin (Table 1). Over all locations, the three highest yielding entries on average were advanced long grain lines 06Y575, 07Y508, and 08Y1009 (10,710, 10,410, and 9,910 lb/ac respectively). Other top yielding commercial varieties M-206, L-206, M-104, and L-205 ranked fourth, sixth, ninth, and tenth, respectively. Averaged across locations, yields in the preliminary tests ranged from 8,450 to 10,260 lb/ac (Table 1). The average days to 50% heading for varieties in 2009 was seven days less than in 2008. Spring rains had no significant affect on field preparation and allowed the majority of rice acreage to be planted in a timely manner. Moderate daytime and slightly warmer nighttime temperatures were responsible for decreasing the number of days to heading and keeping lodging to a minimum.

Over a 5-year period and across locations, S-102 was the highest yielding variety followed by M-206 at 9,402 lbs/ac and 9,368 lbs/ac respectively (Table 6).

Early Maturity Tests (90-97 days to 50% heading at Biggs): Eight commercial varieties and ten advanced lines were compared in four early advanced tests. The preliminary tests included three commercial varieties and 33 preliminary lines evaluated in separate tests at each location. Commercial varieties at each location were CH-201, CM-101, S-102, M-202, M-203, M-205, M-206, A-201, CT-202, L-205, and L-206.

Yields in the advanced line tests averaged 9,640 lb/ac at the RES; 9,130 lb/ac at Butte, 8,380 lb/ac at Yuba, and 8,730 lb/ac at Colusa, (Table 7). Advanced long grain 08Y1092 was the highest yielding entry (10,170 lb/ac) when averaged over four locations in 2009 (Table 7). Other consistently high yielding entries were 08Y1048, L-206, 06Y513, and M-205, all ranking within the top ten at all locations. The yield of commercial varieties L-206, M-205, L-205, M-208, M-202, and M-206, ranked third, fifth, ninth, tenth, twelfth, and thirteenth over all locations (Table 7). Average days to 50% heading ranged from 81 days at Yuba County to 85 days at the Colusa County site. The commercial standard M-202 headed at 90 days at Yuba and 89 days at Colusa. M-205 was the highest yielding commercial variety (9,245 lb/ac) followed by M-206 (8,817 lb/ac) when averaged over the last 5 years and across locations (Table 12).

Intermediate-Late Maturity Tests (> 97 days to 50% heading at Biggs) - Five commercial varieties and eight advanced lines were compared in three intermediate-late tests. The preliminary tests included four commercial varieties and eighteen preliminary lines evaluated in separate tests at each location. Commercial varieties at each location included CH-201, M-202, M-205, M-402, L-205, L-206, CT-201, and CT-202.

Average yields in the advanced tests were 9,470 lb/ac at the RES, 10,220 lb/ac at Glenn, and 7,920 lb/ac at Sutter (Table 13). The 2009 advanced over location average yield was 90 lb/ac greater than the 2008 season average. The average yields at the RES and Sutter decreased 930 and 620 lb/ac respectively, while increasing 1680 lb/ac at Glenn compared to the 2008 season. L-206 was the highest yielding commercial variety (9,290 lb/ac), ranking seventh over all. M-402 and M-205 were the next highest yielding commercial varieties across locations (Table 13). The stem rot resistant long grain entry 08Y1154 was the highest yielding advanced entry across locations, at 9490 lb/ac. Average days to 50% heading ranged from 90 days at the RES and Sutter to 92 days at the Glenn location. M-402 required the longest time to 50% heading among the commercial varieties at all locations, (average is 104 days).

Averaged over the last 5 years and across locations, M-205 is the highest yielding (9,195 lb/ac) commercial variety (Table 17). M-205 and M-402 produced 106% and 99%, respectively, of the yield of M-202 on average over the last 5 years (Table 17).

Objective II - Cultural Practices

Table 18 shows the results of the large plot variety test on Twitchell Island. The leading variety was Calmochi-101 followed by M-206, M-104 and M-202. Calmochi-101 is well-known as the

most cold tolerant of commercial California varieties and has become the standard by which to measure this trait against other varieties and advanced lines. In the large plot test Calmochi-101 was significantly higher in yield than the all other varieties. Blanking in M-206 and M-104 was estimated at 10-15% and 5-10% respectively, but M-104 also had additional shattering losses estimated at 10-15% due to 15-20 mph wind speeds. M-202, one of the original cold tolerant Calrose type varieties for the Valley Home/Escalon area had blanking levels of 40%, thus accounting for its poor yield performance and clearly demonstrating the issues of cold tolerance with traditional California varieties

The commercial varieties in the small plot tests were similar in ranking to the large plot test with Calmochi-101 ranking at the top followed by M-206, M-104 and M-202. The other two commercial varieties, S-102 and L-206 were intermediate between M-202 and the top three ranking varieties (Table 19). In the small plot test, there were no significant differences between the top three commercial varieties. However, the CV is unusually large compared to typical small plot variety tests likely as a result of stand establishment problems. Three advanced line cultivars (two medium grains) ranked highest in yield and thus indicate the potential for medium grain Calrose types to yield at the level of Calmochi-101 in cold environments. At Twitchell Island, the average time to 50% heading for these very early varieties was 115 days after planting and fully 10 days later than the average days to heading for intermediate to late maturing varieties in Sacramento Valley tests, again demonstrating the challenges of growing rice in this environment.

Objective III - Assistance to Other Projects

We continued the maintenance program for the UC SWECO plot combine. Following a major overhaul in 2001, an annual maintenance was established to ensure combine durability and performance. All items listed in the maintenance schedule were inspected and replaced as needed.

The rice equipment pool, including a precision Clampco fertilizer applicator, SWECO 324 plot combine, ALMACO SP40 plot combine, moisture meters, remote temperature stations, and other equipment were used along with personnel who provided technical assistance for numerous field experiments in 2009. The Clampco precision fertilizer applicator was used for the Rice Systems Project at the RES. The SWECO 324 plot combine was used to harvest 5 variety trials, the Rice System Project, 4 entomology tests, and two cold temperature variety tests in the San Joaquin Delta. The ALMACO was used to harvest 6 variety tests, 3 fungicide tests, and 350 pots of a rice quality test. Over 1,500 experimental plots were harvested in 2009. In addition to equipment assistance to other projects, labor from this project was used to plant, collect samples, and monitor growth in several field experiments. Assistance was also provided to the annual RES Rice Field Day and the annual rice breeders' field tour.

Objective IV - Publication and Distribution of Rice Research Information

The following extension education materials were designed, formatted and printed with support from this project:

1. Rice Field Day Program 2009, for the California Cooperative Rice Research Foundation, RES, 42 pp.
2. The UCCE website was updated.
3. UCCE winter grower meetings were held at Colusa and Yuba City.
4. A Rice Production Workshop was held at Colusa.
5. Three activities were held at the RES -- field demonstration on Rice Cultural Systems and Water Quality; the annual California Rice Field day, and the Rice Breeders' tour.

Publications and Reports:

MD Ruark, BA Linquist, J Six, C van Kessel, CA Greer, RG Mutters, and JE Hill. Seasonal losses of dissolved organic carbon and total dissolved solids from rice production systems in northern California. *J. Env Qual*

Williams, Jack, ed. RG Mutters and CA Greer, Tech Ed. WR Horwath, SG Pettygrove, RE Plant, C van Kessel, AT O'Geen, JE Hill, C Bruce, B Linquist and C Hartley, Contributing Ed. Rice nutrient management in California. Oakland: University of California Agriculture and Natural Resources Publication 3516.

Linquist BA, K Koffler, JE Hill and C van Kessel. The impact of rice field drainage on nitrogen management. *Cal Agric in press*

B Linquist, A Fischer, L Godfrey, C Greer, J Hill, K Koffler, M Moeching, R Mutters, and C van Kessel. 2008. Is minimum-till an option for California rice farmers? *Cal Agric* 62:24-29.

Linquist, BA, JE Hill, RG Mutters, CA Greer, C Hartley, MD. Ruark and C van Kessel. 2009. Assessing the necessity of surface-applied preplant nitrogen fertilizer in rice systems. *Agronomy Journal* : 101: 906-915.

Hill, JE, Canevari, WM, Espino, LA, Greer, C.A., Mutters, RG, and Wennig, RL 2008. University of California Cooperative Extension (UCCE) rice variety adaptation and cultural practices research. *In Annual Report Comprehensive Rice Research 2008*. University of California and USDA. (available in e-version only).

Jodari, F, Johnson, CW, Oster, JJ, Hill, JE, Canevari, WM, Greer, CA, Mutters, RG, and Wennig, RL 2009. Characteristics of Public California Rice Varieties. *Agronomy Fact Sheet Series 2009-1*. University of California Davis, Department of Plant Sciences.

CONCISE GENERAL SUMMARY OF CURRENT YEAR'S RESULTS:

Sixteen on-farm rice variety evaluation trials were conducted throughout the rice growing region of California, with standard varieties compared to preliminary and advanced lines across a range of environments, cultural practices and disease levels. Six similar tests were conducted at the RES in Biggs, CA. Average yields across varieties and locations in the advanced line tests ranged from 9,470 lb/acre in the very early trials to 8,970 lb/acre in the early tests. In the intermediate to late tests the advanced lines average yield was 9,200 lb/acre. Spring rains were minimal, allowing field preparation and planting to be accomplished in a timely manner. Several advanced lines in 2009 produced high yields as well as representing important breeding goals aside from yield (disease resistance, grain quality, specialty types, etc.). Testing advanced and preliminary lines under a variety of conditions remains a critical aspect of releasing varieties adapted to changing cultural practices, markets, and pests.

The overall purpose of evaluating rice production in the western San Joaquin Delta is to find a flood tolerant crop so that these islands could be flooded to prevent the organic soils from oxidizing due to cultivation of upland crops and thus prevent soil subsidence. The special variety tests on Twitchell Island were conducted to determine the feasibility of commercial rice production in an extremely cold environment for rice. The results showed that varieties with good cold tolerance such as Calmochi-101 will produce reasonable yields. However, the variety trials were somewhat variable in yield and clearly blanking due to cold temperatures and shattering due to Delta winds were negative factors in achieving high yields.

Project RM-2 was involved in the planting, sampling and harvesting of more than 15 trial sites throughout the rice growing areas. This project also was also involved in several educational activities including the winter rice grower meetings, a Rice Production Workshop, update of UCCE rice website, rice field days, and promoting work through fact sheets and publications.

Table 1. 2009 Very Early Rice Variety Tests - Four Location Summary

Advanced Lines and Varieties

Variety	Grain Type	Ave Grain Yield at 14% Moisture lbs/acre	Single Location Yields				Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
			Biggs	Sutter	Yolo	San Joaquin					
06Y575	LR	10870 (1)	10710 (1)	10360 (1)	12920 (1)	9500 (1)	17.0 (12)	5.0 (3)	91 (13)	13 (15)	38 (16)
07Y508	L	10410 (2)	9840 (4)	10230 (3)	12420 (3)	9160 (2)	17.3 (11)	4.9 (5)	86 (6)	1 (1)	37 (15)
08Y1009	LSR	9910 (3)	10520 (2)	10280 (2)	11330 (10)	7500 (15)	17.5 (10)	4.9 (7)	91 (12)	1 (1)	34 (5)
M206	M	9840 (4)	8940 (7)	9390 (10)	12570 (2)	8440 (5)	20.1 (4)	4.9 (9)	88 (11)	5 (12)	36 (12)
06Y513	L	9790 (5)	10030 (3)	9820 (7)	10890 (12)	8430 (6)	16.3 (15)	4.9 (7)	91 (14)	1 (1)	34 (3)
L206	L	9720 (6)	9710 (5)	10160 (5)	10880 (13)	8120 (10)	16.3 (16)	4.9 (14)	88 (9)	1 (1)	32 (1)
05Y471E	M	9690 (7)	8170 (10)	10200 (4)	12210 (4)	8200 (8)	19.2 (6)	4.8 (16)	85 (5)	2 (8)	36 (13)
05Y471L	M	9530 (8)	8050 (12)	9800 (8)	12100 (5)	8170 (9)	19.3 (5)	4.8 (17)	84 (3)	2 (8)	36 (11)
M104	M	9380 (9)	7180 (17)	10040 (6)	11770 (7)	8530 (4)	18.3 (8)	4.9 (6)	82 (2)	2 (8)	35 (8)
L205	LR	9310 (10)	9430 (6)	9630 (9)	11220 (11)	6970 (17)	16.6 (14)	4.8 (15)	93 (16)	2 (6)	34 (4)
M202	M	9310 (11)	8080 (11)	9070 (12)	11400 (9)	8720 (3)	20.8 (1)	4.9 (10)	92 (15)	10 (14)	36 (14)
04Y332-1	MPQ	9160 (12)	8640 (8)	9030 (13)	10600 (16)	8380 (7)	20.5 (2)	5.0 (3)	95 (17)	2 (6)	34 (7)
S-102	S	9030 (13)	8230 (9)	8480 (16)	11930 (6)	7480 (16)	16.0 (17)	4.9 (13)	81 (1)	4 (11)	36 (10)
04Y177	SPQ	8980 (14)	8020 (13)	8580 (15)	11690 (8)	7620 (13)	17.6 (9)	4.9 (11)	86 (7)	17 (16)	34 (2)
07Y186	MPQ	8850 (15)	7970 (14)	8880 (14)	10720 (15)	7830 (11)	18.5 (7)	5.0 (1)	87 (8)	1 (5)	35 (9)
06Y175	MPQ	8650 (16)	7470 (16)	9130 (11)	10510 (17)	7510 (14)	20.4 (3)	5.0 (1)	88 (9)	25 (17)	38 (17)
CM-101	SWX	8480 (17)	7640 (15)	7870 (17)	10760 (14)	7650 (12)	17.0 (13)	4.9 (11)	84 (3)	9 (13)	34 (6)
MEAN		9470	8740	9470	11530	8130	18.2	4.9	88	6	35
CV		5.6	8.3	5.6	3.7	4.4	5.0	1.4	1.1	163.8	3.5
LSD (.05)		370	1030	760	610	510	0.6	0	1	6	1

Preliminary Lines and Varieties

09Y026	L	10260 (1)	9720 (1)	10340 (6)	12320 (6)	8660 (8)	18.5 (14)	5.0 (7)	93 (33)	1 (1)	33 (3)
07Y843	M	10050 (2)	8530 (17)	10230 (7)	12240 (7)	9180 (1)	20.2 (2)	5.0 (3)	86 (16)	1 (1)	36 (30)
09Y025	L	10040 (3)	9360 (4)	9420 (24)	12380 (5)	9010 (2)	16.6 (30)	5.0 (3)	87 (17)	3 (17)	35 (22)
08Y1047	L	10010 (4)	8700 (13)	10540 (4)	12130 (10)	8650 (9)	16.2 (32)	4.9 (25)	85 (11)	1 (1)	34 (14)
08Y3114	M	9920 (5)	8700 (13)	9550 (21)	12450 (4)	8990 (3)	19.7 (4)	4.9 (13)	87 (19)	5 (31)	35 (21)
08Y3117	M	9910 (6)	8720 (12)	10130 (8)	12540 (2)	8260 (19)	19.3 (7)	4.9 (21)	87 (20)	5 (27)	36 (32)
09Y024	L	9850 (7)	9470 (2)	8820 (32)	12200 (8)	8900 (5)	16.3 (31)	4.9 (21)	92 (32)	3 (17)	32 (1)
08Y1104	L	9820 (8)	9470 (3)	10670 (2)	11640 (16)	7520 (29)	15.7 (34)	4.9 (13)	93 (34)	1 (1)	33 (4)
08Y2044	SPQ	9730 (9)	8660 (16)	10720 (1)	11550 (17)	7990 (24)	17.3 (26)	4.9 (18)	90 (26)	18 (33)	35 (17)
08Y3026	M	9690 (10)	8740 (11)	9430 (23)	12530 (3)	8050 (23)	19.0 (10)	5.0 (1)	88 (23)	3 (21)	35 (24)
08Y3125	M	9680 (11)	8010 (23)	9870 (13)	12200 (9)	8640 (10)	19.6 (5)	4.9 (21)	87 (21)	3 (21)	37 (33)
07Y732	M	9660 (12)	8800 (9)	9850 (15)	11910 (11)	8060 (22)	19.2 (8)	5.0 (7)	89 (25)	5 (27)	35 (20)
08Y2049	SSR	9640 (13)	8860 (7)	9370 (25)	11710 (14)	8630 (11)	18.4 (15)	4.8 (33)	83 (9)	4 (26)	33 (7)
M206	M	9620 (14)	7980 (24)	9290 (28)	12690 (1)	8520 (12)	19.7 (3)	4.9 (21)	88 (24)	3 (21)	36 (28)
07Y1067	M	9610 (15)	7350 (31)	10540 (3)	11690 (15)	8840 (6)	17.7 (22)	5.0 (7)	83 (6)	1 (11)	36 (27)
08Y1027	L	9570 (16)	8700 (15)	9860 (14)	11440 (19)	8280 (18)	17.3 (27)	4.9 (25)	87 (21)	1 (1)	36 (29)
08Y3015	M	9500 (17)	8240 (21)	9960 (10)	11490 (18)	8310 (17)	17.6 (23)	5.0 (1)	82 (3)	2 (14)	34 (9)
08Y1059	LSR	9500 (18)	8280 (19)	9480 (22)	11870 (12)	8360 (15)	16.7 (29)	4.9 (30)	87 (17)	1 (1)	35 (18)
09Y023	LSR	9450 (19)	8140 (22)	9900 (12)	11850 (13)	7900 (26)	18.9 (11)	4.9 (13)	91 (31)	2 (14)	35 (19)
08Y3020	M	9420 (20)	7710 (28)	9980 (9)	11250 (24)	8730 (7)	17.8 (20)	5.0 (3)	81 (1)	1 (11)	35 (15)
08Y1048	L	9400 (21)	8900 (6)	9810 (16)	10460 (34)	8430 (14)	16.8 (28)	4.9 (28)	90 (29)	1 (1)	33 (6)
M203	MPQ	9370 (22)	7830 (26)	9580 (19)	11080 (29)	8970 (4)	20.6 (1)	4.9 (13)	90 (26)	37 (34)	38 (34)
08Y2042	SPQ	9320 (23)	8750 (10)	9220 (29)	11410 (20)	7900 (25)	17.7 (21)	4.9 (25)	84 (10)	1 (1)	34 (8)
07Y255	M	9300 (24)	7860 (25)	9790 (17)	11200 (27)	8330 (16)	18.1 (18)	5.0 (7)	82 (5)	3 (17)	34 (13)
08Y3115	M	9230 (25)	7580 (29)	10360 (5)	10920 (31)	8090 (21)	19.1 (9)	4.9 (18)	86 (15)	16 (32)	36 (25)
08Y3016	M	9170 (26)	6920 (34)	9940 (11)	11320 (22)	8520 (13)	17.8 (19)	5.0 (7)	82 (2)	1 (1)	34 (11)
08Y2048	SSR	9160 (27)	8960 (5)	9000 (30)	11210 (25)	7470 (30)	18.3 (16)	4.7 (34)	82 (4)	1 (1)	34 (10)
08Y2025	S	9160 (28)	8250 (20)	9760 (18)	10930 (30)	7710 (27)	18.8 (13)	4.9 (30)	85 (14)	3 (21)	36 (30)
08Y2037	SPQ	9080 (29)	8330 (18)	9550 (20)	11270 (23)	7170 (33)	18.9 (12)	4.9 (29)	83 (7)	1 (11)	36 (26)
08Y3017	M	9050 (30)	7270 (32)	9330 (27)	11400 (21)	8210 (20)	17.3 (25)	5.0 (3)	83 (7)	2 (14)	35 (16)
07Y204	MPQ	9050 (31)	8820 (8)	9330 (26)	10860 (32)	7200 (32)	19.4 (6)	4.9 (13)	90 (26)	3 (21)	35 (23)
CH-201	SPQ	8610 (32)	7370 (30)	8300 (33)	11090 (28)	7670 (28)	17.4 (24)	5.0 (7)	91 (30)	5 (27)	34 (12)
08Y2046	SPQ	8590 (33)	7770 (27)	8300 (34)	11210 (26)	7080 (34)	16.2 (32)	4.8 (32)	85 (13)	5 (27)	33 (5)
08Y2011	MPQ	8450 (34)	7000 (33)	8880 (31)	10630 (33)	7290 (31)	18.1 (17)	4.9 (18)	85 (11)	3 (17)	33 (2)
MEAN		9470	8350	9680	11620	8220	18.1	4.9	87	4	35
CV		4.7	7.3	3.5	3.4	5.0	3.5	1.1	0.8	188.8	4.1
LSD (.05)		440	1240	690	800	830	0.6	0.1	1	8	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex., SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 2. 2009 Very Early Rice Variety Test - Biggs (RES)

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
06Y575	LR	10710 (1)	16.0 (6)	4.8 (3)	87 (16)	15 (12)	41 (17)
08Y1009	LSR	10520 (2)	15.7 (8)	4.7 (8)	85 (15)	0 (1)	36 (8)
06Y513	L	10030 (3)	14.6 (15)	4.7 (8)	85 (13)	0 (1)	35 (4)
07Y508	L	9840 (4)	15.4 (11)	4.8 (5)	81 (11)	0 (1)	38 (14)
L206	L	9710 (5)	14.5 (16)	4.5 (16)	81 (10)	0 (1)	33 (1)
L205	LR	9430 (6)	15.9 (7)	4.4 (17)	89 (17)	3 (5)	36 (9)
M206	M	8940 (7)	16.9 (3)	4.8 (6)	79 (7)	18 (13)	38 (13)
04Y332-1	MPQ	8640 (8)	17.6 (1)	4.8 (3)	85 (13)	4 (7)	35 (4)
S-102	S	8230 (9)	13.9 (17)	4.6 (15)	78 (2)	8 (11)	36 (9)
05Y471E	M	8170 (10)	16.6 (5)	4.7 (12)	79 (4)	5 (8)	36 (11)
M202	M	8080 (11)	15.5 (10)	4.7 (10)	83 (12)	38 (15)	38 (15)
05Y471L	M	8050 (12)	17.1 (2)	4.7 (11)	79 (4)	5 (8)	37 (12)
04Y177	SPQ	8020 (13)	14.8 (14)	4.7 (12)	80 (9)	60 (16)	35 (2)
07Y186	MPQ	7970 (14)	15.6 (9)	4.9 (1)	78 (3)	3 (5)	36 (7)
CM-101	SWX	7640 (15)	15.4 (12)	4.6 (14)	79 (6)	28 (14)	35 (4)
06Y175	MPQ	7470 (16)	16.8 (4)	4.9 (1)	80 (8)	75 (17)	39 (16)
M104	M	7180 (17)	15.1 (13)	4.8 (6)	76 (1)	5 (8)	35 (3)
MEAN		8740	15.7	4.7	81	16	37
CV		8.3	4.6	1.5	0.9	96.1	3.9
LSD (.05)		1030	1	0.1	1	21	2

Preliminary Lines and Varieties

09Y026	L	9720 (1)	15.2 (16)	4.8 (7)	86 (32)	0 (1)	33 (7)
09Y024	L	9470 (2)	15.7 (9)	4.7 (23)	86 (32)	8 (18)	34 (12)
08Y1104	L	9470 (3)	14.0 (31)	4.8 (14)	86 (32)	0 (1)	32 (3)
09Y025	L	9360 (4)	14.9 (20)	4.9 (3)	83 (27)	8 (18)	36 (29)
08Y2048	SSR	8960 (5)	15.3 (14)	4.2 (34)	79 (13)	0 (1)	34 (12)
08Y1048	L	8900 (6)	15.3 (15)	4.6 (28)	85 (30)	0 (1)	35 (20)
08Y2049	SSR	8860 (7)	14.3 (29)	4.6 (28)	79 (13)	5 (14)	33 (4)
07Y204	MPQ	8820 (8)	16.0 (5)	4.8 (14)	82 (25)	10 (22)	37 (32)
07Y732	M	8800 (9)	16.7 (2)	4.8 (7)	80 (20)	15 (27)	33 (10)
08Y2042	SPQ	8750 (10)	14.8 (22)	4.6 (25)	80 (18)	0 (1)	33 (8)
08Y3026	M	8740 (11)	17.2 (1)	4.9 (1)	79 (9)	10 (22)	36 (31)
08Y3117	M	8720 (12)	16.7 (2)	4.7 (23)	79 (13)	15 (27)	36 (27)
08Y1047	L	8700 (13)	14.8 (22)	4.6 (25)	81 (23)	0 (1)	35 (20)
08Y3114	M	8700 (13)	16.2 (4)	4.8 (14)	79 (13)	15 (27)	35 (24)
08Y1027	L	8700 (15)	15.7 (10)	4.6 (25)	85 (29)	0 (1)	36 (27)
08Y2044	SPQ	8660 (16)	14.5 (26)	4.8 (7)	81 (23)	20 (32)	33 (10)
07Y843	M	8530 (17)	15.5 (12)	4.9 (3)	78 (7)	0 (1)	36 (29)
08Y2037	SPQ	8330 (18)	13.7 (33)	4.5 (31)	79 (9)	3 (11)	35 (20)
08Y1059	LSR	8280 (19)	14.8 (22)	4.5 (32)	82 (26)	0 (1)	34 (16)
08Y2025	S	8250 (20)	15.0 (19)	4.5 (32)	80 (18)	10 (22)	35 (19)
08Y3015	M	8240 (21)	14.7 (25)	4.9 (1)	77 (4)	5 (14)	33 (4)
09Y023	LSR	8140 (22)	15.9 (6)	4.8 (14)	84 (28)	5 (14)	34 (16)
08Y3125	M	8010 (23)	15.9 (7)	4.8 (14)	79 (9)	10 (22)	37 (33)
M206	M	7980 (24)	15.9 (7)	4.8 (14)	79 (13)	10 (22)	35 (23)
07Y255	M	7860 (25)	14.9 (21)	4.8 (7)	77 (5)	8 (18)	34 (14)
M203	MPQ	7830 (26)	15.6 (11)	4.8 (14)	80 (20)	100 (34)	38 (34)
08Y2046	SPQ	7770 (27)	14.1 (30)	4.6 (28)	80 (20)	15 (27)	31 (1)
08Y3020	M	7710 (28)	14.3 (28)	4.9 (3)	76 (1)	3 (11)	34 (14)
08Y3115	M	7580 (29)	15.5 (13)	4.7 (21)	79 (9)	25 (33)	35 (24)
CH-201	SPQ	7370 (30)	14.0 (31)	4.8 (7)	85 (30)	15 (27)	33 (8)
07Y1067	M	7350 (31)	15.1 (17)	4.8 (7)	76 (1)	3 (11)	36 (26)
08Y3017	M	7270 (32)	13.5 (34)	4.9 (3)	77 (5)	5 (14)	34 (18)
08Y2011	MPQ	7000 (33)	15.1 (17)	4.7 (21)	78 (7)	8 (18)	32 (2)
08Y3016	M	6920 (34)	14.5 (26)	4.8 (7)	76 (1)	0 (1)	33 (4)
MEAN		8350	15.1	4.7	80	10	34
CV		7.3	3.3	1.7	0.8	39.2	4.9
LSD (.05)		1240	1	0.2	1	8	

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex., SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 3. 2009 Very Early Rice Variety Test - Sutter

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging	Plant Height
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading		
06Y575	LR	10360 (1)	17.6 (17)	5.0 (1)	91 (12)	34 (17)	37 (15)
08Y1009	LSR	10280 (2)	20.4 (11)	5.0 (1)	91 (13)	1 (1)	35 (10)
07Y508	L	10230 (3)	20.5 (8)	5.0 (1)	85 (4)	1 (1)	37 (16)
05Y471E	M	10200 (4)	24.3 (2)	4.7 (16)	86 (6)	1 (1)	35 (9)
L206	L	10160 (5)	18.2 (15)	5.0 (12)	86 (6)	1 (1)	32 (1)
M104	M	10040 (6)	21.2 (6)	5.0 (1)	83 (3)	1 (1)	35 (8)
06Y513	L	9820 (7)	17.9 (16)	5.0 (1)	91 (13)	1 (1)	33 (3)
05Y471L	M	9800 (8)	23.1 (4)	4.4 (17)	87 (10)	1 (1)	35 (13)
L205	LR	9630 (9)	18.3 (14)	5.0 (1)	94 (16)	3 (12)	34 (6)
M206	M	9390 (10)	22.7 (5)	5.0 (12)	88 (11)	1 (1)	35 (11)
06Y175	MPQ	9130 (11)	23.5 (3)	5.0 (1)	87 (9)	22 (16)	38 (17)
M202	M	9070 (12)	25.0 (1)	5.0 (12)	91 (13)	1 (1)	34 (4)
04Y332-1	MPQ	9030 (13)	20.8 (7)	5.0 (1)	95 (17)	2 (11)	34 (7)
07Y186	MPQ	8880 (14)	20.4 (10)	5.0 (1)	86 (6)	1 (1)	35 (12)
04Y177	SPQ	8580 (15)	20.4 (9)	5.0 (12)	85 (4)	4 (13)	33 (2)
S-102	S	8480 (16)	18.4 (13)	5.0 (1)	77 (1)	5 (14)	35 (13)
CM-101	SWX	7870 (17)	19.7 (12)	5.0 (11)	80 (2)	6 (15)	34 (5)
MEAN		9470	20.7	4.9	87	5	35
CV		5.6	5.6	2.1	0.6	215.4	3.2
LSD (.05)		760	1.6	0.1	1	16	2

Preliminary Lines and Varieties

08Y2044	SPQ	10720 (1)	19.5 (29)	5.0 (1)	91 (28)	50 (34)	35 (21)
08Y1104	L	10670 (2)	17.6 (34)	5.0 (1)	95 (34)	1 (1)	36 (30)
07Y1067	M	10540 (3)	20.7 (19)	5.0 (1)	83 (12)	1 (1)	37 (31)
08Y1047	L	10540 (4)	19.3 (30)	5.0 (1)	81 (6)	1 (1)	34 (10)
08Y3115	M	10360 (5)	23.4 (4)	5.0 (1)	86 (19)	36 (32)	35 (19)
09Y026	L	10340 (6)	21.1 (17)	5.0 (1)	94 (32)	1 (1)	33 (2)
07Y843	M	10230 (7)	23.8 (2)	5.0 (1)	84 (15)	1 (1)	36 (25)
08Y3117	M	10130 (8)	21.3 (16)	5.0 (1)	86 (19)	1 (1)	35 (21)
08Y3020	M	9980 (9)	21.7 (11)	5.0 (1)	80 (1)	1 (1)	35 (21)
08Y3015	M	9960 (10)	20.7 (20)	5.0 (1)	81 (6)	1 (1)	34 (9)
08Y3016	M	9940 (11)	21.5 (15)	5.0 (1)	81 (6)	1 (1)	35 (18)
09Y023	LSR	9900 (12)	22.5 (9)	5.0 (1)	91 (28)	1 (1)	34 (14)
08Y3125	M	9870 (13)	23.1 (6)	4.9 (31)	86 (23)	1 (1)	36 (24)
08Y1027	L	9860 (14)	20.0 (25)	5.0 (1)	85 (16)	1 (1)	37 (32)
07Y732	M	9850 (15)	21.7 (13)	5.0 (1)	91 (27)	1 (1)	33 (6)
08Y1048	L	9810 (16)	18.9 (31)	5.0 (1)	87 (25)	1 (1)	34 (10)
07Y255	M	9790 (17)	21.7 (13)	5.0 (1)	80 (3)	1 (1)	35 (19)
08Y2025	S	9760 (18)	20.3 (24)	5.0 (1)	81 (6)	1 (1)	37 (33)
M203	MPQ	9580 (19)	22.9 (8)	5.0 (1)	86 (19)	46 (33)	38 (34)
08Y2037	SPQ	9550 (20)	23.0 (7)	5.0 (1)	82 (11)	1 (1)	36 (29)
08Y3114	M	9550 (21)	23.5 (3)	5.0 (1)	85 (16)	3 (30)	36 (25)
08Y1059	LSR	9480 (22)	19.9 (27)	5.0 (1)	86 (19)	1 (1)	34 (14)
08Y3026	M	9430 (23)	22.1 (10)	5.0 (1)	86 (23)	1 (1)	35 (17)
09Y025	L	9420 (24)	20.3 (23)	5.0 (1)	85 (16)	1 (1)	36 (25)
08Y2049	SSR	9370 (25)	19.9 (28)	5.0 (1)	81 (6)	11 (31)	33 (4)
07Y204	MPQ	9330 (26)	24.2 (1)	5.0 (1)	91 (28)	1 (1)	34 (14)
08Y3017	M	9330 (27)	20.6 (21)	5.0 (1)	83 (12)	1 (1)	34 (13)
M206	M	9290 (28)	23.3 (5)	4.9 (31)	88 (26)	1 (1)	34 (12)
08Y2042	SPQ	9220 (29)	19.9 (26)	5.0 (1)	83 (14)	1 (1)	33 (4)
08Y2048	SSR	9000 (30)	21.7 (12)	4.9 (31)	80 (1)	1 (1)	33 (8)
08Y2011	MPQ	8880 (31)	20.5 (22)	5.0 (1)	80 (3)	1 (1)	33 (2)
09Y024	L	8820 (32)	17.7 (33)	5.0 (1)	94 (32)	1 (1)	33 (6)
CH-201	SPQ	8300 (33)	21.0 (18)	5.0 (1)	92 (31)	1 (1)	36 (25)
08Y2046	SPQ	8300 (34)	18.1 (32)	4.8 (34)	80 (3)	1 (1)	32 (1)
MEAN		9680	21.1	5.0	85	5	35
CV		3.5	3.3	0.8	0.7	300.7	2.8
LSD (.05)		690	1.4	0.1	1		2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex., SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 4. 2009 Very Early Rice Variety Test - Yolo

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
06Y575	LR	12920 (1)	16.2 (10)	5.0 (1)	86 (11)	1 (1)	41 (13)
M206	M	12570 (2)	20.3 (3)	5.0 (1)	86 (11)	1 (1)	40 (10)
07Y508	L	12420 (3)	16.0 (12)	5.0 (1)	80 (3)	1 (1)	41 (14)
05Y471E	M	12210 (4)	18.0 (7)	4.9 (17)	80 (5)	1 (1)	42 (16)
05Y471L	M	12100 (5)	19.2 (5)	5.0 (14)	80 (3)	1 (1)	40 (12)
S-102	S	11930 (6)	15.5 (14)	5.0 (1)	79 (2)	1 (1)	40 (10)
M104	M	11770 (7)	17.6 (8)	5.0 (1)	79 (1)	1 (1)	39 (8)
04Y177	SPQ	11690 (8)	17.0 (9)	5.0 (1)	84 (7)	1 (1)	38 (5)
M202	M	11400 (9)	21.0 (1)	5.0 (1)	89 (16)	1 (1)	41 (15)
08Y1009	LSR	11330 (10)	16.0 (11)	5.0 (1)	86 (9)	1 (1)	37 (2)
L205	LR	11220 (11)	14.7 (17)	5.0 (14)	87 (14)	1 (1)	37 (3)
06Y513	L	10890 (12)	15.3 (16)	5.0 (1)	89 (15)	1 (1)	37 (4)
L206	L	10880 (13)	15.6 (13)	5.0 (14)	86 (11)	1 (1)	35 (1)
CM-101	SWX	10760 (14)	15.5 (15)	5.0 (1)	81 (6)	1 (1)	38 (6)
07Y186	MPQ	10720 (15)	18.2 (6)	5.0 (1)	86 (10)	1 (1)	39 (9)
04Y332-1	MPQ	10600 (16)	20.6 (2)	5.0 (1)	91 (17)	1 (1)	38 (7)
06Y175	MPQ	10510 (17)	19.9 (4)	5.0 (1)	85 (8)	1 (1)	42 (17)
MEAN		11530	17.4	5.0	84	1	39
CV		3.7	6	1.1	1.5		3.2
LSD (.05)		610	1.5		2		2

Preliminary Lines and Varieties

M206	M	12690 (1)	19.9 (2)	5.0 (1)	88 (30)	1 (1)	42 (33)
08Y3117	M	12540 (2)	19.2 (7)	5.0 (1)	87 (24)	1 (1)	41 (31)
08Y3026	M	12530 (3)	18.2 (10)	5.0 (1)	87 (24)	1 (1)	39 (15)
08Y3114	M	12450 (4)	19.5 (5)	5.0 (1)	87 (24)	1 (1)	38 (6)
09Y025	L	12380 (5)	14.5 (30)	5.0 (1)	81 (9)	1 (1)	38 (11)
09Y026	L	12320 (6)	16.8 (15)	5.0 (1)	88 (30)	1 (1)	36 (4)
07Y843	M	12240 (7)	19.6 (4)	5.0 (1)	85 (19)	1 (1)	41 (29)
09Y024	L	12200 (8)	13.9 (34)	5.0 (1)	86 (20)	1 (1)	34 (1)
08Y3125	M	12200 (9)	19.7 (3)	5.0 (1)	86 (20)	1 (1)	43 (34)
08Y1047	L	12130 (10)	14.3 (32)	5.0 (1)	83 (18)	1 (1)	38 (11)
07Y732	M	11910 (11)	19.3 (6)	5.0 (1)	86 (20)	1 (1)	42 (32)
08Y1059	LSR	11870 (12)	14.3 (31)	5.0 (1)	81 (11)	1 (1)	40 (24)
09Y023	LSR	11850 (13)	16.2 (23)	5.0 (1)	87 (24)	1 (1)	40 (23)
08Y2049	SSR	11710 (14)	18.8 (8)	4.8 (33)	82 (13)	1 (1)	38 (6)
07Y1067	M	11690 (15)	16.4 (21)	5.0 (1)	80 (8)	1 (1)	40 (21)
08Y1104	L	11640 (16)	14.1 (33)	5.0 (1)	88 (29)	1 (1)	35 (2)
08Y2044	SPQ	11550 (17)	15.8 (26)	4.9 (32)	87 (28)	1 (1)	38 (9)
08Y3015	M	11490 (18)	16.7 (18)	5.0 (1)	79 (3)	1 (1)	39 (18)
08Y1027	L	11440 (19)	15.5 (28)	5.0 (1)	82 (14)	1 (1)	39 (20)
08Y2042	SPQ	11410 (20)	16.7 (19)	5.0 (1)	81 (9)	1 (1)	38 (11)
08Y3017	M	11400 (21)	16.6 (20)	5.0 (1)	79 (3)	1 (1)	41 (29)
08Y3016	M	11320 (22)	16.4 (22)	5.0 (1)	79 (3)	1 (1)	39 (15)
08Y2037	SPQ	11270 (23)	18.2 (11)	5.0 (1)	79 (3)	1 (1)	40 (26)
08Y3020	M	11250 (24)	16.2 (25)	5.0 (1)	78 (2)	1 (1)	38 (9)
08Y2048	SSR	11210 (25)	17.3 (14)	4.8 (33)	79 (3)	1 (1)	37 (5)
08Y2046	SPQ	11210 (26)	15.5 (29)	5.0 (1)	83 (16)	1 (1)	39 (14)
07Y255	M	11200 (27)	16.2 (24)	5.0 (1)	81 (11)	1 (1)	39 (15)
CH-201	SPQ	11090 (28)	16.7 (17)	5.0 (1)	86 (20)	1 (1)	39 (18)
M203	MPQ	11080 (29)	20.7 (1)	5.0 (1)	89 (33)	1 (1)	40 (24)
08Y2025	S	10930 (30)	17.7 (12)	5.0 (1)	82 (14)	1 (1)	40 (21)
08Y3115	M	10920 (31)	17.4 (13)	5.0 (1)	83 (16)	1 (1)	40 (26)
07Y204	MPQ	10860 (32)	18.4 (9)	5.0 (1)	89 (33)	1 (1)	40 (28)
08Y2011	MPQ	10630 (33)	16.7 (16)	5.0 (1)	77 (1)	1 (1)	38 (6)
08Y1048	L	10460 (34)	15.6 (27)	5.0 (1)	88 (30)	1 (1)	35 (2)
MEAN		11620	17.0	5.0	83	1	39
CV		3.4	3.5	1.3	0.9		4.3
LSD (.05)		800	1.2		2		3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex., SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 5. 2009 Very Early Rice Variety Test - San Joaquin

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
06Y575	LR	9500 (1)	18.4 (7)	5.0 (1)	99 (11)	1 (1)	32 (16)
07Y508	L	9160 (2)	17.5 (13)	5.0 (1)	97 (6)	1 (1)	33 (17)
M202	M	8720 (3)	21.9 (2)	5.0 (1)	104 (16)	1 (1)	32 (13)
M104	M	8530 (4)	19.4 (6)	5.0 (1)	91 (2)	1 (1)	30 (8)
M206	M	8440 (5)	20.5 (4)	5.0 (1)	98 (9)	1 (1)	31 (11)
06Y513	L	8430 (6)	17.5 (12)	5.0 (1)	101 (14)	1 (1)	30 (5)
04Y332-1	MPQ	8380 (7)	22.9 (1)	5.0 (1)	109 (17)	1 (1)	30 (6)
05Y471E	M	8200 (8)	18.1 (9)	5.0 (1)	94 (4)	1 (1)	31 (12)
05Y471L	M	8170 (9)	17.8 (10)	5.0 (1)	92 (3)	1 (1)	30 (7)
L206	L	8120 (10)	16.9 (16)	5.0 (1)	98 (8)	1 (1)	28 (1)
07Y186	MPQ	7830 (11)	19.6 (5)	5.0 (1)	98 (9)	1 (1)	32 (15)
CM-101	SWX	7650 (12)	17.3 (15)	5.0 (1)	97 (7)	1 (1)	30 (9)
04Y177	SPQ	7620 (13)	18.3 (8)	5.0 (1)	95 (5)	1 (1)	29 (3)
06Y175	MPQ	7510 (14)	21.4 (3)	5.0 (1)	100 (12)	1 (1)	32 (13)
08Y1009	LSR	7500 (15)	17.7 (11)	5.0 (1)	101 (13)	1 (1)	29 (4)
S-102	S	7480 (16)	16.1 (17)	5.0 (1)	90 (1)	1 (1)	31 (10)
L205	LR	6970 (17)	17.5 (14)	5.0 (1)	101 (15)	1 (1)	29 (2)
MEAN		8130	18.8	5.0	98	1	30
CV		4.4	3.5		1.1		3.6
LSD (.05)		510	0.9		2		2

Preliminary Lines and Varieties

07Y843	M	9180 (1)	22.0 (3)	5.0 (1)	98 (14)	1 (1)	31 (26)
09Y025	L	9010 (2)	16.7 (33)	5.0 (1)	99 (20)	1 (1)	30 (12)
08Y3114	M	8990 (3)	19.5 (15)	5.0 (1)	98 (14)	1 (1)	31 (18)
M203	MPQ	8970 (4)	23.1 (1)	5.0 (1)	106 (34)	1 (1)	35 (34)
09Y024	L	8900 (5)	17.8 (29)	5.0 (1)	102 (28)	1 (1)	29 (2)
07Y1067	M	8840 (6)	18.5 (25)	5.0 (1)	93 (9)	1 (1)	31 (16)
08Y3020	M	8730 (7)	18.8 (19)	5.0 (1)	92 (5)	1 (1)	31 (18)
09Y026	L	8660 (8)	20.7 (5)	5.0 (1)	103 (30)	1 (1)	30 (14)
08Y1047	L	8650 (9)	16.6 (34)	5.0 (1)	93 (9)	1 (1)	31 (16)
08Y3125	M	8640 (10)	19.6 (12)	5.0 (1)	99 (21)	1 (1)	32 (29)
08Y2049	SSR	8630 (11)	20.7 (6)	5.0 (1)	92 (6)	1 (1)	30 (11)
M206	M	8520 (12)	19.6 (14)	5.0 (1)	98 (14)	1 (1)	31 (26)
08Y3016	M	8520 (13)	18.8 (21)	5.0 (1)	91 (1)	1 (1)	30 (7)
08Y1048	L	8430 (14)	17.6 (30)	5.0 (1)	101 (27)	1 (1)	29 (6)
08Y1059	LSR	8360 (15)	17.9 (27)	5.0 (1)	98 (14)	1 (1)	31 (18)
07Y255	M	8330 (16)	19.6 (11)	5.0 (1)	91 (3)	1 (1)	29 (5)
08Y3015	M	8310 (17)	18.6 (24)	5.0 (1)	91 (1)	1 (1)	30 (9)
08Y1027	L	8280 (18)	17.8 (28)	5.0 (1)	98 (14)	1 (1)	31 (18)
08Y3117	M	8260 (19)	19.9 (10)	5.0 (1)	98 (14)	1 (1)	32 (32)
08Y3017	M	8210 (20)	18.7 (22)	5.0 (1)	94 (11)	1 (1)	30 (7)
08Y3115	M	8090 (21)	20.1 (9)	5.0 (1)	98 (13)	1 (1)	31 (23)
07Y732	M	8060 (22)	19.1 (18)	5.0 (1)	99 (21)	1 (1)	31 (26)
08Y3026	M	8050 (23)	18.6 (23)	5.0 (1)	100 (26)	1 (1)	32 (30)
08Y2044	SPQ	7990 (24)	19.3 (16)	5.0 (1)	102 (28)	1 (1)	32 (30)
08Y2042	SPQ	7900 (25)	19.6 (13)	5.0 (1)	93 (7)	1 (1)	30 (9)
09Y023	LSR	7900 (26)	21.1 (4)	5.0 (1)	103 (30)	1 (1)	31 (23)
08Y2025	S	7710 (27)	22.2 (2)	5.0 (1)	99 (21)	1 (1)	32 (33)
CH-201	SPQ	7670 (28)	18.0 (26)	5.0 (1)	99 (21)	1 (1)	28 (1)
08Y1104	L	7520 (29)	16.9 (32)	5.0 (1)	103 (30)	1 (1)	29 (2)
08Y2048	SSR	7470 (30)	18.8 (20)	5.0 (1)	91 (3)	1 (1)	31 (23)
08Y2011	MPQ	7290 (31)	20.2 (8)	5.0 (1)	104 (33)	1 (1)	29 (2)
07Y204	MPQ	7200 (32)	19.2 (17)	5.0 (1)	99 (21)	1 (1)	30 (12)
08Y2037	SPQ	7170 (33)	20.6 (7)	5.0 (1)	93 (7)	1 (1)	31 (18)
08Y2046	SPQ	7080 (34)	17.1 (31)	5.0 (1)	97 (12)	1 (1)	30 (14)
MEAN		8220	19.2	5.0	97	1	31
CV		5	3.8		0.8		4
LSD (.05)		830	1.5		2		3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex., SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 6. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2005-2009)

Location	Year	M-104	M-202	M-206	Calmochi			
					101	S-102	L-205	L-206
Biggs (RES)	2005	5860	7560	7970	7220	8350	8920	8400
	2006	7970	8960	9280	8490	9170	9350	9990
	2007	8930	10250	11030	6740	10730	9550	10360
	2008	10000	10170	10900	9960	10240	10010	11180
	2009	7180	8080	8940	7640	8230	9430	9710
Location Mean		7988	9004	9624	8010	9344	9452	9928
Sutter	2005	7800	7220	7570	7090	8510	7440	7310
	2006	8480	8580	8780	8640	9780	7970	9030
	2007	10680	10740	11250	11140	11100	10000	10440
	2008	10100	9540	9800	10010	10190	9490	9840
	2009	10040	9070	9390	7870	8480	9070	10160
Location Mean		9420	9030	9358	8950	9612	8794	9356
Yolo	2005	8830	9750	9600	8800	9460	9740	9640
	2006	8020	8700	8360	7610	8730	8570	8290
	2007	7510	7220	7350	7500	7140	7010	7520
	2008	9930	10140	10480	9830	10340	9590	10210
	2009	11770	11400	12570	10760	11930	11220	10880
Location Mean		9212	9442	9672	8900	9520	9226	9308
San Joaquin	2005	7810	7530	7550	8480	8430	7450	7190
	2006*	-	-	-	-	-	-	-
	2007	9050	6130	9380	9650	10340	7430	9850
	2008	9780	7770	9360	9470	10000	7580	8160
	2009	8530	8720	8440	7650	7480	6970	8120
Location Mean		8793	7538	8683	8813	9063	7358	8330
Loc/Years Mean		8856	8817	9368	8661	9402	8778	9278
Yield % M-104		100.0	99.6	105.8	97.8	106.2	99.1	104.8
Number of Tests		19	19	19	19	19	19	19

* Test location not planted in 2006.

Table 7. 2009 Early Rice Variety Tests - Four Location Summary

Advanced Lines and Varieties

		Ave Grain	Single Location Yields				Grain	Seedling	Days to		Plant
		Yield at 14%					Moisture	Vigor	50%	Lodging	Height
Variety	Grain Type	Moisture lbs/acre	Biggs	Butte	Yuba	Colusa	at Harvest (%)	(1-5)	Heading	(1-99)	(in)
08Y1092	LR	10170 (1)	11410 (1)	10210 (1)	9510 (1)	9550 (2)	13.7 (16)	4.9 (8)	82 (8)	8 (1)	36 (3)
08Y1048	L	9690 (2)	11400 (2)	9620 (5)	8850 (6)	8910 (7)	14.4 (13)	4.9 (9)	82 (9)	17 (2)	36 (4)
L206	L	9550 (3)	10840 (3)	9610 (6)	9150 (3)	8600 (12)	13.5 (17)	4.9 (12)	81 (7)	19 (4)	35 (1)
06Y513	L	9510 (4)	10680 (4)	9320 (8)	9220 (2)	8830 (9)	13.4 (18)	5.0 (5)	86 (12)	19 (3)	35 (2)
M205	M	9430 (5)	9430 (9)	9830 (3)	8790 (7)	9680 (1)	17.4 (2)	4.9 (10)	90 (17)	25 (5)	37 (6)
06Y575	LR	9230 (6)	10480 (5)	9130 (9)	8870 (5)	8440 (15)	14.0 (14)	5.0 (4)	84 (10)	41 (9)	41 (18)
04Y308	MPQ	9140 (7)	9050 (13)	9880 (2)	8560 (9)	9080 (3)	16.3 (7)	5.0 (1)	87 (15)	43 (11)	38 (10)
06Y322	MPQ	9090 (8)	9420 (10)	8830 (11)	9070 (4)	9060 (4)	15.8 (9)	5.0 (2)	87 (16)	46 (15)	37 (9)
L205	LR	8840 (9)	9570 (8)	8790 (12)	8570 (8)	8420 (16)	13.9 (15)	4.9 (14)	86 (11)	29 (6)	37 (7)
M208	M	8810 (10)	9170 (11)	9400 (7)	7930 (14)	8730 (11)	16.1 (8)	5.0 (3)	87 (14)	43 (14)	39 (13)
04Y332-1	MPQ	8810 (11)	9590 (7)	9020 (10)	7700 (16)	8930 (6)	18.1 (1)	4.9 (11)	92 (18)	47 (16)	37 (8)
M202	M	8780 (12)	8940 (15)	9690 (4)	7940 (13)	8560 (13)	17.0 (3)	4.9 (6)	86 (13)	48 (17)	39 (16)
M206	M	8780 (13)	9080 (12)	8710 (14)	8530 (10)	8800 (10)	16.3 (6)	4.9 (6)	81 (6)	43 (12)	39 (14)
05Y471L	M	8590 (14)	9030 (14)	8560 (16)	7810 (15)	8960 (5)	16.4 (5)	4.9 (12)	78 (2)	39 (8)	40 (17)
05Y471E	M	8560 (15)	8690 (17)	8530 (17)	8160 (11)	8880 (8)	16.8 (4)	4.7 (17)	79 (3)	34 (7)	39 (15)
S-102	S	8400 (16)	9700 (6)	7800 (18)	7950 (12)	8130 (17)	14.9 (12)	4.8 (16)	75 (1)	42 (10)	39 (12)
04Y177A	SPQ	8220 (17)	8280 (18)	8590 (15)	7490 (17)	8530 (14)	15.6 (10)	4.5 (18)	81 (5)	58 (18)	36 (5)
CM-101	SWX	7780 (18)	8700 (16)	8740 (13)	6670 (18)	6990 (18)	15.3 (11)	4.8 (15)	79 (4)	43 (13)	38 (11)
MEAN		8970	9640	9130	8380	8730	15.5	4.9	83	36	38
CV		7.1	5.8	8.6	7.2	6.5	5.9	3.1	1.3	35	3.5
LSD (.05)		440	790	1110	850	800	0.6	0.1	1	9	1

Preliminary Lines and Varieties

08Y084	L	9980 (1)	10360 (3)	10910 (2)	9690 (1)	8980 (4)	13.8 (29)	5.0 (11)	84 (24)	32 (13)	38 (20)
07Y526	LJ	9870 (2)	10780 (1)	11020 (1)	9160 (7)	8500 (8)	13.3 (32)	4.9 (32)	86 (32)	19 (10)	38 (27)
08Y1009	LSR	9530 (3)	10690 (2)	9970 (4)	8330 (23)	9140 (2)	13.1 (34)	5.0 (8)	83 (20)	18 (9)	35 (2)
07Y599	LJ	9430 (4)	9910 (5)	9820 (5)	9060 (9)	8930 (5)	12.6 (36)	5.0 (7)	84 (23)	7 (7)	37 (12)
07Y293	SPQ	9120 (5)	9240 (9)	9530 (8)	9250 (6)	8450 (9)	16.0 (3)	4.9 (13)	82 (16)	35 (17)	36 (4)
07Y603	LA	9080 (6)	9380 (8)	9790 (6)	8670 (17)	8500 (7)	13.1 (35)	4.9 (13)	83 (22)	4 (5)	36 (10)
07Y255	M	9010 (7)	8000 (23)	9320 (14)	9650 (2)	9060 (3)	16.0 (4)	5.0 (1)	81 (5)	34 (15)	38 (29)
07Y257	M	8990 (8)	8040 (20)	9450 (12)	9340 (5)	9150 (1)	16.4 (1)	4.9 (13)	81 (8)	39 (20)	38 (17)
08Y1167	L	8960 (9)	9400 (7)	10090 (3)	8630 (19)	7720 (15)	14.0 (28)	4.9 (29)	87 (35)	3 (3)	36 (3)
A201	LA	8760 (10)	9960 (4)	9310 (16)	7960 (28)	7830 (14)	14.4 (26)	5.0 (2)	87 (35)	3 (3)	38 (18)
08Y2098	MPQ	8610 (11)	8610 (14)	9460 (11)	8780 (16)	7590 (21)	14.6 (25)	5.0 (6)	85 (28)	47 (32)	40 (35)
M203	MPQ	8550 (12)	8810 (12)	8890 (29)	9070 (8)	7450 (26)	15.6 (14)	4.9 (13)	84 (24)	80 (36)	40 (36)
07Y489	LA	8520 (13)	8930 (11)	9420 (13)	8080 (27)	7670 (19)	13.6 (31)	5.0 (8)	77 (1)	2 (2)	36 (9)
07Y3199	M	8510 (14)	8300 (17)	9640 (7)	8990 (12)	7120 (31)	15.7 (12)	4.9 (21)	81 (7)	45 (30)	39 (31)
08Y3126	M	8500 (15)	7690 (27)	9460 (10)	9520 (4)	7360 (27)	15.0 (22)	4.9 (21)	81 (4)	45 (31)	38 (25)
07Y280	M	8500 (16)	8000 (22)	9260 (19)	9020 (11)	7710 (16)	15.8 (10)	4.9 (31)	82 (18)	35 (16)	36 (6)
07Y414	M	8440 (17)	8390 (15)	9260 (18)	8520 (21)	7590 (22)	15.9 (7)	4.8 (35)	82 (16)	43 (23)	40 (34)
08Y3122	M	8440 (18)	7830 (26)	9060 (24)	8890 (15)	7970 (12)	15.8 (9)	4.9 (21)	81 (12)	32 (12)	39 (30)
08Y3121	M	8420 (19)	8350 (16)	8930 (27)	9550 (3)	6840 (33)	15.3 (20)	4.9 (13)	81 (8)	42 (22)	38 (26)
07Y1044	M	8380 (20)	7130 (34)	9160 (21)	8950 (13)	8290 (10)	15.3 (19)	4.9 (21)	83 (20)	40 (21)	37 (15)
08Y2089	MPQ	8370 (21)	8060 (19)	8840 (30)	8360 (22)	8220 (11)	15.6 (13)	5.0 (8)	83 (19)	50 (34)	39 (32)
07Y251	M	8350 (22)	7630 (29)	9510 (9)	8570 (20)	7680 (18)	15.5 (17)	4.9 (13)	81 (10)	44 (29)	38 (21)
08Y3120	M	8330 (23)	7370 (32)	9310 (15)	9040 (10)	7610 (20)	16.1 (2)	4.9 (21)	81 (12)	43 (23)	38 (22)
07Y253	M	8320 (24)	8010 (21)	9110 (22)	8640 (18)	7540 (24)	15.7 (11)	4.9 (32)	82 (14)	43 (23)	38 (24)
M206	M	8220 (25)	7490 (30)	8890 (28)	8920 (14)	7570 (23)	15.3 (21)	4.9 (13)	81 (10)	43 (23)	37 (14)
08Y1109	LJ	8180 (26)	9500 (6)	9030 (25)	7050 (34)	7130 (30)	13.2 (33)	4.9 (27)	86 (33)	16 (8)	37 (16)
07Y350	S	8150 (27)	7900 (24)	9300 (17)	8170 (26)	7210 (29)	15.8 (8)	4.9 (27)	82 (14)	43 (23)	36 (8)
08Y2087	MPQ	8110 (28)	7410 (31)	8770 (32)	8310 (24)	7940 (13)	14.7 (23)	5.0 (2)	84 (26)	49 (33)	38 (19)
07Y832	M	8050 (29)	7040 (35)	9210 (20)	8250 (25)	7700 (17)	15.9 (6)	4.9 (29)	86 (31)	28 (11)	37 (11)
CH-201	SPQ	8000 (30)	9090 (10)	8690 (33)	7350 (32)	6880 (32)	14.6 (24)	5.0 (2)	85 (29)	51 (35)	36 (7)
07Y343	MPQ	7960 (31)	7850 (25)	8820 (31)	7870 (29)	7310 (28)	16.0 (5)	4.9 (13)	84 (27)	44 (28)	38 (23)
08Y2096	MPQ	7930 (32)	7220 (33)	8340 (34)	7570 (31)	8600 (6)	15.3 (18)	5.0 (2)	81 (5)	38 (19)	38 (28)
08Y1115	LA	7930 (33)	8740 (13)	9100 (23)	7650 (30)	6230 (34)	14.1 (27)	4.9 (21)	85 (29)	1 (1)	36 (4)
07Y364	SLA	7580 (34)	6800 (36)	8940 (26)	7060 (33)	7500 (25)	15.6 (16)	4.9 (34)	80 (3)	33 (14)	37 (13)
07Y369	SBG	7220 (35)	8080 (18)	8290 (35)	6850 (35)	5680 (35)	15.6 (15)	4.6 (36)	80 (2)	35 (17)	39 (33)
CT202	LB	6730 (36)	7650 (28)	7780 (36)	5960 (36)	5510 (36)	13.6 (30)	5.0 (11)	86 (34)	5 (6)	34 (1)
MEAN		8470	8430	9270	8460	7730	14.9	4.9	83	32	38
CV		6.1	6.9	3.8	5.3	8.4	5.7	2.3	1.6	34.5	4.4
LSD (.05)		510	1180	710	910	1310	0.8	0.1	1	11	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; LA=low amalose; J=Jasmine; BG=bold grain; A = aromatic; B=Basmati.

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

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

Numbers in parentheses indicate relative rank in column.

Table 8 . 2009 Early Rice Variety Test - Biggs

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
08Y1092	LR	11410 (1)	11.5 (16)	4.7 (10)	82 (8)	0 (1)	36 (3)
08Y1048	L	11400 (2)	12.9 (11)	4.7 (10)	83 (11)	5 (2)	38 (14)
L206	L	10840 (3)	11.6 (14)	4.6 (16)	81 (6)	28 (3)	37 (7)
06Y513	L	10680 (4)	10.6 (18)	4.8 (5)	86 (17)	38 (6)	36 (6)
06Y575	LR	10480 (5)	12.4 (13)	4.9 (4)	84 (14)	65 (10)	41 (18)
S-102	S	9700 (6)	11.2 (17)	4.7 (13)	77 (1)	53 (8)	37 (13)
04Y332-1	MPQ	9590 (7)	16.9 (1)	4.8 (9)	86 (16)	88 (14)	37 (11)
L205	LR	9570 (8)	11.6 (15)	4.6 (18)	89 (18)	44 (7)	37 (8)
M205	M	9430 (9)	15.6 (2)	4.7 (13)	86 (15)	30 (4)	37 (8)
06Y322	MPQ	9420 (10)	13.8 (8)	4.9 (2)	84 (13)	91 (15)	38 (15)
M208	M	9170 (11)	13.3 (9)	4.9 (3)	83 (12)	93 (17)	39 (17)
M206	M	9080 (12)	15.3 (3)	4.8 (7)	80 (5)	71 (12)	37 (11)
04Y308	MPQ	9050 (13)	14.1 (7)	5.0 (1)	82 (8)	73 (13)	36 (4)
05Y471L	M	9030 (14)	14.9 (5)	4.8 (5)	78 (2)	53 (8)	37 (10)
M202	M	8940 (15)	14.8 (6)	4.8 (7)	83 (10)	96 (18)	39 (16)
CM-101	SWX	8700 (16)	13.1 (10)	4.7 (10)	78 (3)	68 (11)	36 (2)
05Y471E	M	8690 (17)	15.3 (4)	4.7 (13)	78 (3)	33 (5)	36 (5)
04Y177A	SPQ	8280 (18)	12.5 (12)	4.6 (17)	82 (7)	92 (16)	35 (1)
MEAN		9640	13.4	4.8	82	57	37
CV		5.8	5.3	2.1	0.7	25.6	4.1
LSD (.05)		790	1	0.1	1	21	2

Preliminary Lines and Varieties

07Y526	LJ	10780 (1)	11.7 (27)	4.5 (34)	86 (34)	0 (1)	37 (28)
08Y1009	LSR	10690 (2)	11.7 (27)	4.9 (8)	83 (29)	0 (1)	34 (13)
08Y084	L	10360 (3)	12.5 (17)	4.8 (11)	85 (33)	30 (11)	36 (27)
A201	LA	9960 (4)	12.1 (23)	5.0 (2)	89 (36)	0 (1)	38 (34)
07Y599	LJ	9910 (5)	10.9 (35)	4.9 (7)	82 (28)	0 (1)	33 (5)
08Y1109	LJ	9500 (6)	12.0 (24)	4.7 (29)	84 (31)	13 (9)	35 (19)
08Y1167	L	9400 (7)	11.4 (32)	4.6 (32)	86 (34)	0 (1)	34 (14)
07Y603	LA	9380 (8)	10.7 (36)	4.8 (13)	84 (32)	8 (8)	34 (9)
07Y293	SPQ	9240 (9)	11.4 (32)	4.8 (13)	78 (13)	40 (12)	32 (1)
CH-201	SPQ	9090 (10)	12.4 (20)	5.0 (2)	81 (24)	93 (34)	33 (2)
07Y489	LA	8930 (11)	11.9 (25)	4.9 (8)	80 (23)	5 (7)	33 (5)
M203	MPQ	8810 (12)	13.5 (10)	4.8 (13)	79 (16)	97 (35)	38 (35)
08Y1115	LA	8740 (13)	11.6 (29)	4.7 (21)	83 (30)	0 (1)	37 (28)
08Y2098	MPQ	8610 (14)	12.8 (16)	5.0 (6)	79 (16)	85 (32)	39 (36)
07Y414	M	8390 (15)	15.0 (2)	4.7 (21)	79 (16)	70 (23)	37 (28)
08Y3121	M	8350 (16)	13.6 (9)	4.8 (13)	78 (8)	65 (21)	36 (25)
07Y3199	M	8300 (17)	13.9 (6)	4.7 (21)	78 (8)	78 (30)	37 (31)
07Y369	SBG	8080 (18)	11.6 (29)	4.2 (36)	79 (16)	40 (12)	37 (31)
08Y2089	MPQ	8060 (19)	14.0 (4)	4.9 (8)	78 (8)	97 (35)	37 (33)
07Y257	M	8040 (20)	15.0 (1)	4.8 (13)	77 (4)	60 (19)	34 (15)
07Y253	M	8010 (21)	14.0 (5)	4.6 (32)	78 (8)	70 (23)	35 (21)
07Y280	M	8000 (22)	13.1 (12)	4.7 (29)	76 (2)	45 (15)	33 (5)
07Y255	M	8000 (23)	11.4 (31)	5.3 (1)	76 (2)	55 (18)	35 (21)
07Y350	S	7900 (24)	12.5 (17)	4.7 (29)	80 (22)	70 (23)	35 (17)
07Y343	MPQ	7850 (25)	14.3 (3)	4.8 (13)	81 (24)	75 (28)	35 (21)
08Y3122	M	7830 (26)	13.7 (8)	4.7 (21)	78 (13)	50 (16)	36 (25)
08Y3126	M	7690 (27)	12.4 (19)	4.7 (21)	77 (4)	80 (31)	35 (17)
CT202	LB	7650 (28)	10.9 (34)	4.8 (11)	82 (27)	15 (10)	35 (16)
07Y251	M	7630 (29)	13.9 (6)	4.8 (13)	77 (6)	75 (28)	36 (24)
M206	M	7490 (30)	13.0 (15)	4.8 (13)	78 (8)	70 (23)	34 (9)
08Y2087	MPQ	7410 (31)	12.4 (20)	5.0 (2)	79 (21)	90 (33)	35 (19)
08Y3120	M	7370 (32)	13.4 (11)	4.7 (21)	77 (6)	70 (23)	34 (9)
08Y2096	MPQ	7220 (33)	12.2 (22)	5.0 (2)	76 (1)	50 (16)	33 (5)
07Y1044	M	7130 (34)	11.8 (26)	4.7 (21)	79 (16)	60 (19)	33 (2)
07Y832	M	7040 (35)	13.0 (14)	4.7 (21)	81 (24)	40 (12)	34 (9)
07Y364	SLA	6800 (36)	13.1 (12)	4.5 (34)	78 (13)	65 (21)	33 (2)
MEAN		8430	12.6	4.8	80	49	35
CV		6.9	7.5	3.8	1.4	26.4	4.8
LSD (.05)		1180	1.9	0.4	2	26	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; LA=low amalose; J=Jasmine;
 BG=bold grain; A = aromatic; B=Basmati.

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

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

Numbers in parentheses indicate relative rank in column.

Table 9. 2009 Early Rice Variety Test - Butte

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
08Y1092	LR	10210 (1)	15.4 (15)	5.0 (1)	82 (10)	1 (1)	37 (3)
04Y308	MPQ	9880 (2)	18.0 (3)	5.0 (1)	86 (16)	1 (1)	38 (6)
M205	M	9830 (3)	18.9 (2)	5.0 (1)	91 (17)	1 (1)	39 (9)
M202	M	9690 (4)	17.8 (4)	5.0 (1)	84 (12)	1 (1)	41 (16)
08Y1048	L	9620 (5)	15.6 (14)	5.0 (1)	80 (8)	1 (1)	38 (5)
L206	L	9610 (6)	14.1 (18)	5.0 (1)	79 (4)	1 (1)	35 (1)
M208	M	9400 (7)	17.1 (7)	5.0 (1)	84 (12)	1 (1)	40 (14)
06Y513	L	9320 (8)	15.0 (17)	5.0 (1)	83 (11)	1 (1)	37 (4)
06Y575	LR	9130 (9)	15.7 (13)	5.0 (1)	81 (9)	1 (1)	42 (18)
04Y332-1	MPQ	9020 (10)	20.4 (1)	5.0 (1)	91 (18)	1 (1)	38 (8)
06Y322	MPQ	8830 (11)	17.0 (8)	5.0 (1)	85 (15)	1 (1)	38 (6)
L205	LR	8790 (12)	15.1 (16)	5.0 (1)	84 (12)	1 (1)	39 (10)
CM-101	SWX	8740 (13)	16.2 (12)	5.0 (16)	79 (5)	6 (17)	39 (13)
M206	M	8710 (14)	16.9 (10)	5.0 (1)	80 (7)	1 (1)	40 (15)
04Y177A	SPQ	8590 (15)	17.0 (9)	4.8 (18)	79 (5)	19 (18)	36 (2)
05Y471L	M	8560 (16)	17.5 (6)	5.0 (1)	74 (2)	2 (14)	41 (17)
05Y471E	M	8530 (17)	17.8 (5)	4.9 (17)	75 (3)	4 (16)	39 (10)
S-102	S	7800 (18)	16.3 (11)	5.0 (1)	71 (1)	3 (15)	39 (10)
MEAN		9130	16.8	5.0	82	3	39
CV		8.6	7.6	1.4	1.9	324.1	3.3
LSD (.05)		1110	1.8		2		2

Preliminary Lines and Varieties

07Y526	LJ	11020 (1)	13.2 (30)	5.0 (1)	84 (25)	1 (1)	40 (27)
08Y084	L	10910 (2)	13.4 (28)	5.0 (1)	84 (25)	1 (1)	41 (29)
08Y1167	L	10090 (3)	13.5 (26)	5.0 (1)	85 (35)	1 (1)	38 (10)
08Y1009	LSR	9970 (4)	13.4 (29)	5.0 (1)	84 (29)	1 (1)	36 (1)
07Y599	LJ	9820 (5)	11.6 (36)	5.0 (1)	83 (21)	1 (1)	40 (24)
07Y603	LA	9790 (6)	13.0 (32)	5.0 (1)	84 (25)	1 (1)	38 (9)
07Y3199	M	9640 (7)	17.1 (3)	5.0 (1)	80 (7)	1 (1)	40 (18)
07Y293	SPQ	9530 (8)	17.5 (1)	5.0 (1)	82 (18)	1 (1)	38 (10)
07Y251	M	9510 (9)	16.3 (17)	5.0 (1)	81 (12)	1 (1)	38 (4)
08Y3126	M	9460 (10)	15.8 (22)	5.0 (1)	80 (2)	1 (1)	38 (10)
08Y2098	MPQ	9460 (11)	15.7 (23)	5.0 (1)	84 (29)	1 (1)	40 (24)
07Y257	M	9450 (12)	16.7 (9)	5.0 (1)	80 (2)	1 (1)	40 (23)
07Y489	LA	9420 (13)	12.9 (33)	5.0 (1)	73 (1)	1 (1)	38 (5)
07Y255	M	9320 (14)	16.7 (10)	5.0 (1)	80 (2)	1 (1)	40 (18)
08Y3120	M	9310 (15)	16.4 (15)	5.0 (1)	82 (15)	1 (1)	40 (24)
A201	LA	9310 (16)	13.4 (27)	5.0 (1)	84 (29)	1 (1)	38 (5)
07Y350	S	9300 (17)	16.9 (6)	5.0 (1)	82 (18)	1 (1)	38 (5)
07Y414	M	9260 (18)	16.7 (8)	4.9 (36)	80 (2)	1 (1)	41 (31)
07Y280	M	9260 (19)	15.9 (21)	5.0 (1)	82 (15)	1 (1)	40 (18)
07Y832	M	9210 (20)	16.8 (7)	5.0 (1)	83 (23)	1 (1)	38 (10)
07Y1044	M	9160 (21)	16.4 (16)	5.0 (1)	81 (12)	1 (1)	40 (18)
07Y253	M	9110 (22)	15.9 (20)	5.0 (1)	80 (7)	1 (1)	39 (15)
08Y1115	LA	9100 (23)	12.7 (34)	5.0 (1)	84 (25)	1 (1)	38 (5)
08Y3122	M	9060 (24)	16.4 (14)	5.0 (1)	80 (7)	1 (1)	39 (16)
08Y1109	LJ	9030 (25)	13.0 (31)	5.0 (1)	88 (36)	1 (1)	41 (30)
07Y364	SLA	8940 (26)	16.6 (11)	5.0 (1)	81 (12)	1 (1)	41 (34)
08Y3121	M	8930 (27)	16.6 (12)	5.0 (1)	80 (7)	1 (1)	40 (18)
M206	M	8890 (28)	16.9 (5)	5.0 (1)	81 (11)	1 (1)	39 (16)
M203	MPQ	8890 (29)	17.4 (2)	5.0 (1)	83 (23)	99 (36)	41 (31)
08Y2089	MPQ	8840 (30)	16.3 (18)	5.0 (1)	82 (15)	1 (1)	42 (35)
07Y343	MPQ	8820 (31)	16.5 (13)	5.0 (1)	82 (18)	1 (1)	41 (31)
08Y2087	MPQ	8770 (32)	15.6 (24)	5.0 (1)	83 (21)	6 (34)	39 (14)
CH-201	SPQ	8690 (33)	14.3 (25)	5.0 (1)	84 (29)	11 (35)	37 (3)
08Y2096	MPQ	8340 (34)	16.1 (19)	5.0 (1)	84 (29)	1 (1)	42 (36)
07Y369	SBG	8290 (35)	17.1 (4)	5.0 (1)	80 (2)	1 (1)	40 (27)
CT202	LB	7780 (36)	12.0 (35)	5.0 (1)	84 (29)	1 (1)	37 (2)
MEAN		9270	15.3	5.0	82	4	39
CV		3.8	2.9	0.2	1.5	59.6	3.7
LSD (.05)		710	0.9	0	3	5	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; LA=low amalose; J=Jasmine;
 BG=bold grain; A = aromatic; B=Basmati.

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

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

Numbers in parentheses indicate relative rank in column.

Table 10. 2009 Early Rice Variety Test - Yuba

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
08Y1092	LR	9510 (1)	13.5 (16)	5.0 (1)	81 (5)	29 (1)	34 (3)
06Y513	L	9220 (2)	13.7 (15)	5.0 (1)	86 (11)	35 (2)	34 (2)
L206	L	9150 (3)	13.4 (17)	5.0 (12)	81 (5)	46 (3)	34 (1)
06Y322	MPQ	9070 (4)	14.9 (8)	5.0 (1)	90 (15)	90 (8)	37 (7)
06Y575	LR	8870 (5)	13.1 (18)	5.0 (1)	86 (10)	97 (12)	40 (16)
08Y1048	L	8850 (6)	13.8 (14)	5.0 (12)	82 (9)	63 (4)	35 (4)
M205	M	8790 (7)	15.5 (3)	5.0 (1)	94 (17)	68 (5)	36 (5)
L205	LR	8570 (8)	14.5 (11)	4.9 (15)	87 (12)	70 (6)	38 (10)
04Y308	MPQ	8560 (9)	14.8 (9)	5.0 (1)	89 (13)	96 (11)	38 (11)
M206	M	8530 (10)	14.4 (12)	5.0 (1)	81 (7)	99 (14)	39 (14)
05Y471E	M	8160 (11)	15.2 (5)	5.0 (1)	80 (3)	99 (14)	40 (18)
S-102	S	7950 (12)	15.1 (7)	4.8 (17)	75 (1)	99 (14)	39 (13)
M202	M	7940 (13)	16.1 (1)	5.0 (1)	90 (16)	95 (10)	38 (12)
M208	M	7930 (14)	15.4 (4)	5.0 (1)	90 (14)	79 (7)	37 (9)
05Y471L	M	7810 (15)	13.9 (13)	5.0 (12)	80 (2)	99 (14)	40 (17)
04Y332-1	MPQ	7700 (16)	14.7 (10)	5.0 (1)	95 (18)	98 (13)	37 (8)
04Y177A	SPQ	7490 (17)	15.6 (2)	4.7 (18)	82 (8)	99 (14)	36 (6)
CM-101	SWX	6670 (18)	15.2 (6)	4.9 (16)	80 (4)	94 (9)	39 (15)
MEAN		8380	14.6	5.0	85	81	37
CV		7.2	6.1	1.4	1.4	20.3	3.6
LSD (.05)		850	1.3	0.1	2	23	2

Preliminary Lines and Varieties

07Y257	M	9150 (1)	15.2 (19)	5.0 (1)	84 (15)	95 (16)	37 (10)
08Y1009	LSR	9140 (2)	12.8 (36)	5.0 (1)	82 (2)	70 (10)	35 (4)
07Y255	M	9060 (3)	18.6 (1)	5.0 (1)	83 (10)	80 (14)	39 (28)
08Y084	L	8980 (4)	14.6 (23)	5.0 (1)	84 (15)	97 (17)	37 (8)
07Y599	LJ	8930 (5)	14.3 (27)	5.0 (1)	85 (21)	25 (7)	38 (17)
08Y2096	MPQ	8600 (6)	16.2 (6)	5.0 (1)	82 (8)	99 (19)	41 (36)
07Y603	LA	8500 (7)	14.6 (23)	5.0 (1)	83 (10)	8 (4)	37 (9)
07Y526	LJ	8500 (8)	12.8 (35)	5.0 (1)	90 (30)	75 (12)	38 (16)
07Y293	SPQ	8450 (9)	16.1 (7)	5.0 (1)	84 (15)	99 (19)	38 (13)
07Y1044	M	8290 (10)	15.9 (11)	5.0 (1)	88 (27)	99 (19)	39 (22)
08Y2089	MPQ	8220 (11)	15.5 (16)	5.0 (1)	85 (19)	99 (19)	40 (32)
08Y3122	M	7970 (12)	15.1 (21)	5.0 (1)	84 (15)	75 (12)	40 (29)
08Y2087	MPQ	7940 (13)	14.1 (28)	5.0 (1)	88 (27)	99 (19)	38 (13)
A201	LA	7830 (14)	17.3 (4)	5.0 (1)	87 (25)	8 (5)	39 (22)
08Y1167	L	7720 (15)	16.1 (8)	5.0 (1)	91 (35)	8 (5)	35 (2)
07Y280	M	7710 (16)	16.6 (5)	4.9 (33)	87 (26)	92 (15)	35 (2)
07Y832	M	7700 (17)	16.0 (9)	5.0 (1)	90 (30)	70 (10)	40 (29)
07Y251	M	7680 (18)	14.5 (25)	5.0 (1)	83 (12)	99 (19)	39 (19)
07Y489	LA	7670 (19)	14.8 (22)	5.0 (1)	75 (1)	1 (1)	36 (6)
08Y3120	M	7610 (20)	15.6 (14)	5.0 (1)	83 (12)	99 (19)	39 (25)
08Y2098	MPQ	7590 (21)	14.1 (28)	5.0 (1)	89 (29)	99 (19)	40 (32)
07Y414	M	7590 (22)	13.8 (31)	4.7 (35)	85 (21)	99 (19)	41 (35)
M206	M	7570 (23)	13.8 (31)	5.0 (1)	83 (12)	99 (19)	38 (12)
07Y253	M	7540 (24)	15.8 (13)	4.9 (33)	85 (19)	99 (19)	39 (19)
07Y364	SLA	7500 (25)	15.4 (17)	5.0 (1)	82 (2)	65 (9)	38 (15)
M203	MPQ	7450 (26)	14.3 (26)	5.0 (1)	85 (21)	99 (19)	40 (32)
08Y3126	M	7360 (27)	14.0 (30)	5.0 (1)	82 (2)	99 (19)	40 (31)
07Y343	MPQ	7310 (28)	15.3 (18)	5.0 (1)	86 (24)	97 (17)	39 (25)
07Y350	S	7210 (29)	15.9 (10)	5.0 (1)	82 (2)	99 (19)	36 (7)
08Y1109	LJ	7130 (30)	15.2 (20)	5.0 (1)	90 (30)	50 (8)	39 (19)
07Y3199	M	7120 (31)	13.8 (31)	5.0 (1)	82 (8)	99 (19)	39 (25)
CH-201	SPQ	6880 (32)	15.5 (15)	5.0 (1)	90 (30)	99 (19)	37 (10)
08Y3121	M	6840 (33)	13.2 (34)	5.0 (1)	82 (2)	99 (19)	39 (22)
08Y1115	LA	6230 (34)	18.1 (2)	5.0 (1)	90 (30)	1 (1)	35 (4)
07Y369	SBG	5680 (35)	15.8 (12)	4.6 (36)	82 (2)	99 (19)	39 (18)
CT202	LB	5510 (36)	17.6 (3)	5.0 (1)	91 (35)	1 (1)	34 (1)
MEAN		7730	15.2	5.0	85	75	38
CV		8.4	8.3	2.1	1.7	22.9	5.7
LSD (.05)		1310	2.6		3	35	

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; LA=low amalose; J=Jasmine;
 BG=bold grain; A = aromatic; B=Basmati.

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

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

Numbers in parentheses indicate relative rank in column.

Table 11. 2009 Early Rice Variety Test - Colusa

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
M205	M	9680 (1)	19.6 (2)	5.0 (1)	91 (17)	1 (1)	36 (6)
08Y1092	LR	9550 (2)	14.6 (15)	5.0 (1)	82 (5)	1 (1)	35 (4)
04Y308	MPQ	9080 (3)	18.2 (8)	5.0 (1)	90 (16)	1 (1)	38 (11)
06Y322	MPQ	9060 (4)	17.4 (9)	5.0 (1)	90 (14)	1 (1)	37 (7)
05Y471L	M	8960 (5)	19.1 (4)	4.8 (15)	80 (3)	1 (1)	40 (17)
04Y332-1	MPQ	8930 (6)	20.3 (1)	4.9 (13)	96 (18)	1 (1)	37 (8)
08Y1048	L	8910 (7)	15.4 (13)	5.0 (1)	85 (11)	1 (1)	35 (3)
05Y471E	M	8880 (8)	19.1 (5)	4.2 (17)	82 (6)	1 (1)	40 (18)
06Y513	L	8830 (9)	14.5 (18)	5.0 (1)	88 (12)	1 (1)	34 (1)
M206	M	8800 (10)	18.7 (6)	5.0 (1)	84 (8)	1 (1)	39 (14)
M208	M	8730 (11)	18.5 (7)	5.0 (1)	90 (15)	1 (1)	38 (9)
L206	L	8600 (12)	15.0 (14)	5.0 (11)	84 (8)	1 (1)	34 (2)
M202	M	8560 (13)	19.2 (3)	5.0 (1)	89 (13)	1 (1)	38 (13)
04Y177A	SPQ	8530 (14)	17.2 (10)	4.0 (18)	81 (4)	23 (18)	38 (12)
06Y575	LR	8440 (15)	14.6 (15)	5.0 (1)	84 (8)	1 (1)	40 (16)
L205	LR	8420 (16)	14.6 (15)	5.0 (11)	83 (7)	1 (1)	35 (5)
S-102	S	8130 (17)	16.9 (11)	4.8 (14)	77 (1)	13 (17)	39 (15)
CM-101	SWX	6990 (18)	16.6 (12)	4.8 (15)	78 (2)	6 (16)	38 (10)
MEAN		8730	17.2	4.9	85	3	37
CV		6.5	3.8	5.5	1	284.6	3
LSD (.05)		800	0.9	0.4	1		2

Preliminary Lines and Varieties

08Y084	L	9690 (1)	14.6 (30)	5.0 (1)	83 (5)	1 (1)	38 (19)
07Y255	M	9650 (2)	17.3 (16)	5.0 (1)	85 (21)	1 (1)	39 (25)
08Y3121	M	9550 (3)	17.9 (9)	5.0 (1)	85 (21)	1 (1)	39 (23)
08Y3126	M	9520 (4)	17.8 (11)	5.0 (1)	85 (21)	1 (1)	39 (27)
07Y257	M	9340 (5)	18.6 (3)	5.0 (1)	85 (16)	1 (1)	38 (22)
07Y293	SPQ	9250 (6)	19.1 (1)	5.0 (1)	85 (16)	1 (1)	34 (3)
07Y526	LJ	9160 (7)	15.4 (26)	5.0 (1)	84 (8)	1 (1)	38 (18)
M203	MPQ	9070 (8)	17.3 (19)	5.0 (1)	88 (30)	26 (36)	41 (35)
07Y599	LJ	9060 (9)	13.7 (35)	5.0 (1)	85 (16)	1 (1)	37 (15)
08Y3120	M	9040 (10)	18.8 (2)	5.0 (1)	84 (8)	1 (1)	39 (25)
07Y280	M	9020 (11)	17.5 (13)	5.0 (1)	85 (21)	1 (1)	36 (9)
07Y3199	M	8990 (12)	18.1 (5)	5.0 (1)	84 (8)	1 (1)	40 (29)
07Y1044	M	8950 (13)	17.3 (16)	5.0 (1)	86 (26)	1 (1)	38 (21)
M206	M	8920 (14)	17.5 (13)	5.0 (1)	84 (8)	1 (1)	39 (23)
08Y3122	M	8890 (15)	17.9 (9)	5.0 (1)	84 (8)	1 (1)	40 (33)
08Y2098	MPQ	8780 (16)	15.9 (25)	5.0 (1)	87 (29)	1 (1)	40 (34)
07Y603	LA	8670 (17)	14.0 (32)	5.0 (1)	84 (6)	1 (1)	35 (8)
07Y253	M	8640 (18)	17.2 (20)	5.0 (1)	85 (16)	1 (1)	39 (27)
08Y1167	L	8630 (19)	15.1 (27)	5.0 (1)	86 (28)	1 (1)	35 (4)
07Y251	M	8570 (20)	17.5 (15)	5.0 (1)	84 (8)	1 (1)	40 (29)
07Y414	M	8520 (21)	18.1 (5)	4.8 (35)	85 (21)	1 (1)	40 (29)
08Y2089	MPQ	8360 (22)	16.8 (23)	5.0 (1)	88 (30)	3 (34)	38 (19)
08Y1009	LSR	8330 (23)	14.6 (30)	5.0 (1)	85 (16)	1 (1)	35 (4)
08Y2087	MPQ	8310 (24)	16.9 (21)	5.0 (1)	88 (30)	3 (34)	40 (29)
07Y832	M	8250 (25)	18.0 (7)	4.9 (33)	89 (35)	1 (1)	36 (12)
07Y350	S	8170 (26)	18.1 (4)	5.0 (1)	84 (6)	1 (1)	35 (7)
07Y489	LA	8080 (27)	14.8 (29)	5.0 (1)	81 (3)	1 (1)	37 (14)
A201	LA	7960 (28)	14.9 (28)	5.0 (1)	88 (30)	1 (1)	36 (10)
07Y343	MPQ	7870 (29)	17.8 (11)	5.0 (1)	89 (34)	1 (1)	37 (13)
08Y1115	LA	7650 (30)	13.9 (34)	5.0 (1)	84 (8)	1 (1)	33 (2)
08Y2096	MPQ	7570 (31)	16.9 (22)	5.0 (1)	82 (4)	1 (1)	37 (17)
CH-201	SPQ	7350 (32)	16.4 (24)	5.0 (1)	86 (26)	1 (1)	36 (11)
07Y364	SLA	7060 (33)	17.3 (18)	4.9 (33)	80 (2)	1 (1)	37 (15)
08Y1109	LJ	7050 (34)	12.8 (36)	5.0 (1)	84 (8)	1 (1)	35 (4)
07Y369	SBG	6850 (35)	17.9 (8)	4.5 (36)	80 (1)	1 (1)	42 (36)
CT202	LB	5960 (36)	14.0 (32)	5.0 (1)	89 (35)	1 (1)	32 (1)
MEAN		8460	16.6	5.0	85	2	37
CV		5.3	3.1	1.6	1.5	324.5	3
LSD (.05)		910	1.1	0.2	3		2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; LA=low amaloise; J=Jasmine;
BG=bold grain; A = aromatic; B=Basmati.

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

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

Numbers in parentheses indicate relative rank in column.

Table 12. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2005-2009)

Location	Year	Calhikari		S-102	M-205	M-206	Calmati	
		201	M-202				201	L-205
Biggs (RES)	2005	7740	7350	7950	7980	7890	6900	8760
	2006	8650	9000	9740	9250	9560	7480	9280
	2007	6230	6940	8730	8920	9430	6960	8420
	2008	9520	10580	10950	10800	10620	8120	9700
	2009	9090	8940	9700	9430	9080	-	9570
Location Mean		8246	8562	9414	9276	9316	7365	9146
Butte	2005	7100	8990	7520	9740	7010	6550	8620
	2006	6930	7970	8430	8820	8080	7230	8090
	2007	7430	7640	8580	8310	8060	7640	8940
	2008	6360	7150	7470	8220	8450	6780	8220
	2009	8690	9690	7800	9830	8170	-	8790
Location Mean		7302	8288	7960	8984	7954	7050	8532
Yuba	2005	7470	7100	7630	8150	7670	7110	7490
	2006	-	-	-	-	-	-	-
	2007	5910	7040	6170	7480	7960	5550	6370
	2008	8880	10140	9830	10500	10720	7660	9890
	2009	6880	7940	7950	8790	8530	-	8570
Location Mean		7285	8055	7895	8730	8720	6773	8080
Colusa	2005	7580	8030	6970	9330	8160	7330	8570
	2006	8530	9970	9060	10720	9300	7590	8660
	2007	8270	9030	9040	9630	9960	7190	8770
	2008	8640	9950	9870	10080	10080	6610	9140
	2009	7350	8560	8130	9680	8800	-	8420
Location Mean		8074	9108	8614	9888	9260	7180	8712
Loc/Years Mean		7750	8527	8501	9245	8817	7113	8646
Yield % M-202		90.9	100	99.7	108.4	103.4	83.4	101.4
Number of Tests		19	19	19	19	19	15	19

Table13. 2009 Intermediate/Late Rice Variety Tests - Three Location Summary

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture	Single Location Yields			Grain Moisture at Harvest	Seedling Vigor	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre	Biggs	Glenn	Sutter	(%)	(1-5)			
07Y671	SSR	10100 (1)	10630 (1)	10930 (2)	8730 (1)	16.5 (5)	4.8 (6)	86 (2)	26 (9)	37 (2)
08Y1168	L	9720 (2)	10240 (2)	11200 (1)	7720 (8)	15.4 (9)	4.8 (8)	92 (10)	2 (2)	37 (3)
07Y576	L	9590 (3)	9630 (6)	10500 (6)	8630 (3)	14.7 (10)	4.7 (11)	92 (10)	1 (1)	40 (12)
07Y301	SPQ	9550 (4)	9190 (8)	10840 (4)	8640 (2)	17.2 (3)	4.9 (2)	92 (9)	20 (8)	38 (7)
05Y343	SWX	9530 (5)	10090 (3)	10840 (3)	7660 (10)	16.6 (4)	4.8 (9)	89 (4)	47 (13)	40 (11)
06Y513	L	9340 (6)	9950 (4)	10020 (9)	8040 (6)	13.8 (13)	4.8 (7)	91 (7)	2 (3)	38 (8)
L206	L	9290 (7)	9950 (5)	10440 (7)	7470 (11)	14.1 (12)	4.7 (12)	85 (1)	10 (6)	36 (1)
M-402	MPQ	9240 (8)	9110 (10)	10610 (5)	8010 (7)	18.0 (1)	5.0 (1)	104 (13)	6 (5)	42 (13)
07Y726	M	9210 (9)	9110 (11)	9990 (10)	8520 (4)	17.9 (2)	4.9 (3)	90 (6)	17 (7)	39 (9)
M205	M	9200 (10)	9290 (7)	10120 (8)	8180 (5)	16.5 (6)	4.9 (5)	91 (8)	29 (10)	38 (4)
L205	LR	8550 (11)	9170 (9)	9910 (11)	6570 (13)	14.4 (11)	4.4 (13)	94 (12)	4 (4)	38 (6)
M202	M	8200 (12)	8300 (13)	9230 (12)	7080 (12)	16.1 (7)	4.8 (10)	89 (5)	34 (11)	39 (10)
8Y2094	MPQ	8140 (13)	8490 (12)	8210 (13)	7710 (9)	15.5 (8)	4.9 (4)	87 (3)	40 (12)	38 (5)
MEAN		9200	9470	10220	7920	15.9	4.8	91	18	39
CV		5.2	5.7	4.4	5.7	4.9	2.6	1.5	74.4	2.3
LSD (.05)		390	780	650	640	0.6	0.1	1	11	1

Preliminary Lines and Varieties

08Y1154	LSR	9490 (1)	9810 (2)	10690 (2)	7970 (5)	14.9 (15)	4.9 (7)	96 (19)	1 (1)	35 (1)
07Y722	M	9440 (2)	10150 (1)	9900 (8)	8260 (2)	16.5 (3)	4.8 (15)	95 (17)	9 (10)	38 (11)
08Y2103	MPQ	9200 (3)	8410 (13)	10410 (3)	8770 (1)	16.6 (2)	4.9 (4)	90 (11)	61 (22)	40 (19)
08Y3135	M	9170 (4)	9450 (5)	9960 (7)	8090 (3)	17.0 (1)	4.7 (18)	86 (1)	1 (1)	37 (5)
07Y697	M	9000 (5)	9780 (3)	10050 (5)	7190 (13)	15.3 (11)	4.6 (21)	93 (15)	19 (14)	36 (2)
07Y477	M	9000 (6)	9610 (4)	9740 (11)	7640 (7)	15.3 (12)	5.4 (1)	90 (7)	19 (14)	37 (6)
M205	M	8940 (7)	8670 (10)	10840 (1)	7320 (12)	16.0 (4)	4.8 (9)	92 (14)	9 (10)	37 (8)
07Y700	M	8900 (8)	9150 (6)	9990 (6)	7540 (9)	15.6 (7)	4.9 (6)	89 (6)	5 (9)	38 (9)
07Y691	M	8750 (9)	9080 (7)	9840 (10)	7340 (11)	15.5 (8)	4.7 (17)	88 (4)	28 (16)	37 (7)
07Y466	M	8720 (10)	8740 (9)	10260 (4)	7170 (14)	15.1 (14)	4.8 (9)	90 (10)	14 (12)	38 (12)
07Y1174	LJ	8700 (11)	9070 (8)	8990 (16)	8030 (4)	14.4 (17)	4.8 (13)	98 (22)	16 (13)	39 (17)
08Y3134	M	8530 (12)	8590 (11)	9360 (12)	7640 (8)	15.2 (13)	4.7 (20)	86 (2)	4 (8)	38 (14)
07Y692	M	8440 (13)	8070 (16)	9870 (9)	7360 (10)	15.4 (9)	4.9 (7)	90 (9)	32 (18)	38 (13)
08Y1114	LJ	8220 (14)	8440 (12)	8260 (19)	7950 (6)	14.0 (20)	4.8 (9)	97 (20)	1 (1)	40 (20)
08Y2162	SPQ	8130 (15)	8090 (15)	9130 (14)	7160 (16)	14.1 (18)	5.0 (3)	92 (13)	31 (17)	38 (9)
08Y2082	MPQ	8080 (16)	7880 (17)	9330 (13)	7020 (17)	15.9 (5)	4.9 (5)	89 (5)	57 (21)	38 (15)
CT201	LB	7870 (17)	7850 (19)	9010 (15)	6740 (18)	14.1 (19)	4.8 (9)	94 (16)	1 (1)	40 (21)
CH-201	SPQ	7810 (18)	7860 (18)	8410 (17)	7170 (15)	15.4 (10)	5.0 (2)	87 (3)	47 (20)	37 (3)
08Y2147	MPQ	7390 (19)	7710 (20)	8390 (18)	6060 (19)	15.7 (6)	4.8 (13)	91 (12)	40 (19)	39 (18)
09Y139	LB	7180 (20)	8280 (14)	8100 (20)	5170 (21)	13.8 (21)	4.6 (22)	96 (18)	1 (1)	39 (16)
CT202	LB	6960 (21)	7620 (21)	7970 (21)	5290 (20)	13.7 (22)	4.7 (16)	90 (7)	1 (1)	37 (4)
08Y138	LB	6420 (22)	7190 (22)	7140 (22)	4940 (22)	14.7 (16)	4.7 (19)	97 (21)	1 (1)	41 (22)
MEAN		8380	8610	9350	7170	15.2	4.8	91	18	38
CV		5.7	6.6	3.4	7.0	3.6	5.6	1.8	84.9	2.9
LSD (.05)		550	1190	650	1050	0.6	0.3	2	18	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; SR = stemrot resistant; B = Basmati; J = Jasmine.

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

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

Numbers in parentheses indicate relative rank in column.

Table 14. 2009 Intermediate/Late Rice Variety Test - Biggs (RES)

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
07Y671	SSR	10630 (1)	14.3 (10)	4.7 (7)	85 (2)	68 (9)	33 (2)
08Y1168	L	10240 (2)	16.3 (1)	4.5 (9)	92 (9)	3 (2)	36 (9)
05Y343	SWX	10090 (3)	15.0 (6)	4.7 (6)	90 (8)	93 (12)	36 (8)
06Y513	L	9950 (4)	13.7 (13)	4.4 (10)	93 (10)	3 (2)	37 (10)
L206	L	9950 (5)	14.6 (9)	4.4 (10)	85 (3)	28 (6)	34 (3)
07Y576	L	9630 (6)	15.1 (5)	4.3 (12)	98 (12)	0 (1)	39 (12)
M205	M	9290 (7)	14.7 (8)	4.8 (2)	86 (5)	80 (10)	34 (5)
07Y301	SPQ	9190 (8)	14.3 (10)	4.8 (5)	89 (7)	51 (8)	35 (7)
L205	LR	9170 (9)	14.8 (7)	4.2 (13)	97 (11)	10 (4)	38 (11)
M-402	MPQ	9110 (10)	16.3 (1)	5.0 (1)	104 (13)	11 (5)	41 (13)
07Y726	M	9110 (11)	16.2 (3)	4.8 (2)	87 (6)	40 (7)	34 (6)
8Y2094	MPQ	8490 (12)	14.1 (12)	4.8 (4)	83 (1)	98 (13)	33 (1)
M202	M	8300 (13)	15.1 (4)	4.6 (8)	85 (3)	85 (11)	34 (3)
MEAN		9470	15.0	4.6	90	44	36
CV		5.7	6.3	2.8	2	49.4	2
LSD (.05)		780	1.4	0.2	3	31	1

Preliminary Lines and Varieties

07Y722	M	10150 (1)	14.2 (12)	4.9 (3)	90 (16)	25 (11)	35 (16)
08Y1154	LSR	9810 (2)	14.6 (6)	4.7 (13)	96 (18)	0 (1)	38 (18)
07Y697	M	9780 (3)	14.4 (11)	4.8 (12)	88 (14)	55 (14)	35 (14)
07Y477	M	9610 (4)	14.1 (14)	5.0 (2)	86 (7)	55 (14)	34 (7)
08Y3135	M	9450 (5)	14.8 (4)	4.6 (14)	86 (5)	0 (1)	34 (5)
07Y700	M	9150 (6)	14.2 (12)	4.9 (3)	86 (5)	13 (10)	34 (5)
07Y691	M	9080 (7)	14.1 (17)	4.6 (15)	86 (7)	70 (16)	34 (7)
07Y1174	LJ	9070 (8)	14.7 (5)	4.6 (15)	99 (22)	0 (1)	39 (22)
07Y466	M	8740 (9)	13.4 (21)	4.9 (3)	86 (7)	40 (13)	34 (7)
M205	M	8670 (10)	14.1 (14)	4.8 (8)	87 (10)	25 (11)	34 (10)
08Y3134	M	8590 (11)	14.5 (9)	4.5 (17)	85 (3)	8 (9)	33 (3)
08Y1114	LJ	8440 (12)	14.0 (19)	4.5 (17)	97 (19)	0 (1)	38 (19)
08Y2103	MPQ	8410 (13)	15.1 (2)	4.8 (8)	87 (10)	95 (18)	34 (10)
09Y139	LB	8280 (14)	14.5 (10)	4.1 (22)	98 (20)	0 (1)	39 (20)
08Y2162	SPQ	8090 (15)	12.9 (22)	4.9 (3)	89 (15)	90 (17)	35 (15)
07Y692	M	8070 (16)	15.9 (1)	4.8 (8)	85 (3)	95 (18)	33 (3)
08Y2082	MPQ	7880 (17)	14.6 (8)	4.9 (7)	83 (1)	100 (22)	32 (1)
CH-201	SPQ	7860 (18)	14.1 (14)	5.0 (1)	83 (2)	95 (18)	33 (2)
CT201	LB	7850 (19)	14.6 (6)	4.5 (17)	92 (17)	0 (1)	36 (17)
08Y2147	MPQ	7710 (20)	13.7 (20)	4.8 (8)	87 (13)	95 (18)	34 (13)
CT202	LB	7620 (21)	14.1 (17)	4.4 (20)	87 (10)	0 (1)	34 (10)
08Y138	LB	7190 (22)	14.9 (3)	4.3 (21)	98 (20)	0 (1)	39 (20)
MEAN		8610	14.3	4.7	89	39	35
CV		6.6	4.2	3.1	1.2	41	1.2
LSD (.05)		1190		0.3	2	33	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; SR = stemrot resistant;

B = Basmati; J = Jasmine.

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

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

Numbers in parentheses indicate relative rank in column.

Table 15. 2009 Intermediate/Late Rice Variety Test - Glenn

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
08Y1168	L	11200 (1)	14.0 (9)	5.0 (1)	93 (10)	1 (1)	40 (2)
07Y671	SSR	10930 (2)	16.2 (5)	4.9 (9)	90 (3)	9 (9)	42 (5)
05Y343	SWX	10840 (3)	16.6 (4)	4.8 (12)	91 (6)	48 (13)	44 (12)
07Y301	SPQ	10840 (4)	15.9 (7)	5.0 (1)	94 (11)	8 (8)	41 (3)
M-402	MPQ	10610 (5)	16.6 (2)	5.0 (1)	104 (13)	7 (7)	43 (11)
07Y576	L	10500 (6)	13.2 (11)	5.0 (1)	92 (7)	1 (1)	43 (6)
L206	L	10440 (7)	13.0 (13)	5.0 (6)	88 (1)	1 (1)	40 (1)
M205	M	10120 (8)	16.6 (3)	5.0 (6)	94 (11)	6 (6)	43 (6)
06Y513	L	10020 (9)	13.1 (12)	5.0 (1)	92 (7)	3 (5)	43 (6)
07Y726	M	9990 (10)	17.3 (1)	5.0 (6)	91 (4)	11 (10)	43 (10)
L205	LR	9910 (11)	13.5 (10)	4.7 (13)	92 (7)	1 (1)	41 (4)
M202	M	9230 (12)	16.2 (6)	4.9 (11)	90 (2)	15 (11)	44 (13)
8Y2094	MPQ	8210 (13)	15.9 (8)	4.9 (10)	91 (4)	20 (12)	43 (6)
MEAN		10220	15.2	4.9	92	10	42
CV		4.4	2.9	1.9	1.2	92.6	2.3
LSD (.05)		650	0.6	0.1	2	13	1

Preliminary Lines and Varieties

M205	M	10840 (1)	16.2 (3)	5.0 (2)	96 (14)	1 (1)	41 (6)
08Y1154	LSR	10690 (2)	13.2 (16)	5.0 (2)	98 (19)	1 (1)	35 (1)
08Y2103	MPQ	10410 (3)	16.5 (1)	5.0 (2)	90 (3)	80 (22)	44 (21)
07Y466	M	10260 (4)	15.6 (10)	4.8 (18)	92 (10)	1 (1)	43 (16)
07Y697	M	10050 (5)	15.5 (11)	4.5 (22)	98 (19)	1 (1)	40 (2)
07Y700	M	9990 (6)	16.1 (4)	5.0 (2)	91 (4)	1 (1)	43 (15)
08Y3135	M	9960 (7)	16.1 (5)	4.6 (21)	86 (1)	1 (1)	41 (4)
07Y722	M	9900 (8)	15.6 (8)	4.8 (18)	98 (17)	1 (1)	40 (3)
07Y692	M	9870 (9)	15.3 (13)	5.0 (2)	91 (5)	1 (1)	42 (13)
07Y691	M	9840 (10)	15.9 (7)	4.9 (16)	90 (2)	11 (18)	42 (10)
07Y477	M	9740 (11)	15.4 (12)	6.2 (1)	91 (5)	1 (1)	42 (8)
08Y3134	M	9360 (12)	15.3 (14)	4.7 (20)	91 (5)	3 (17)	42 (13)
08Y2082	MPQ	9330 (13)	16.0 (6)	5.0 (2)	91 (5)	70 (21)	44 (18)
08Y2162	SPQ	9130 (14)	14.0 (15)	5.0 (2)	97 (16)	1 (1)	42 (10)
CT201	LB	9010 (15)	12.2 (22)	5.0 (2)	96 (14)	1 (1)	44 (18)
07Y1174	LJ	8990 (16)	12.6 (19)	5.0 (2)	98 (17)	48 (20)	41 (6)
CH-201	SPQ	8410 (17)	15.6 (9)	5.0 (2)	91 (5)	1 (1)	42 (10)
08Y2147	MPQ	8390 (18)	16.2 (2)	4.9 (16)	94 (12)	25 (19)	43 (17)
08Y1114	LJ	8260 (19)	13.0 (17)	5.0 (2)	98 (19)	1 (1)	44 (20)
09Y139	LB	8100 (20)	12.5 (20)	5.0 (2)	96 (13)	1 (1)	42 (8)
CT202	LB	7970 (21)	12.9 (18)	5.0 (2)	92 (11)	1 (1)	41 (5)
08Y138	LB	7140 (22)	12.3 (21)	5.0 (2)	99 (22)	1 (1)	44 (22)
MEAN		9350	14.7	5.0	94	11	42
CV		3.4	2.6	8.3	2.7	140.8	3.3
LSD (.05)		650	0.8		5	34	3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; SR = stemrot resistant;

B = Basmati; J = Jasmine.

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

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

Numbers in parentheses indicate relative rank in column.

Table 16. 2009 Intermediate/Late Rice Variety Test - Sutter

Advanced Lines and Varieties

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
07Y671	SSR	8730 (1)	19.0 (4)	4.9 (5)	85 (3)	1 (1)	37 (6)
07Y301	SPQ	8640 (2)	21.5 (1)	5.0 (1)	92 (7)	1 (1)	39 (8)
07Y576	L	8630 (3)	15.9 (9)	4.9 (7)	87 (4)	1 (1)	40 (11)
07Y726	M	8520 (4)	20.3 (3)	4.9 (6)	93 (10)	1 (1)	39 (8)
M205	M	8180 (5)	18.1 (6)	4.9 (8)	94 (12)	1 (1)	36 (5)
06Y513	L	8040 (6)	14.5 (13)	5.0 (1)	88 (5)	1 (1)	36 (4)
M-402	MPQ	8010 (7)	21.0 (2)	5.0 (1)	103 (13)	1 (1)	41 (13)
08Y1168	L	7720 (8)	15.8 (10)	4.9 (8)	92 (9)	1 (1)	36 (3)
8Y2094	MPQ	7710 (9)	16.6 (8)	5.0 (4)	88 (6)	1 (1)	38 (7)
05Y343	SWX	7660 (10)	18.4 (5)	4.8 (10)	84 (2)	1 (1)	39 (10)
L206	L	7470 (11)	14.6 (12)	4.7 (12)	82 (1)	1 (1)	35 (1)
M202	M	7080 (12)	17.1 (7)	4.8 (11)	93 (10)	1 (1)	40 (12)
L205	LR	6570 (13)	15.0 (11)	4.1 (13)	92 (8)	1 (1)	35 (2)
MEAN		7920	17.5	4.8	90	1	38
CV		5.7	4.9	3	1.3		2.4
LSD (.05)		640	1.2	0.2	2		1

Preliminary Lines and Varieties

08Y2103	MPQ	8770 (1)	18.2 (3)	5.0 (1)	94 (17)	8 (21)	40 (19)
07Y722	M	8260 (2)	19.6 (2)	4.7 (19)	97 (21)	1 (1)	38 (13)
08Y3135	M	8090 (3)	20.0 (1)	4.9 (10)	87 (3)	1 (1)	37 (11)
07Y1174	LJ	8030 (4)	15.8 (16)	4.9 (7)	97 (21)	1 (1)	38 (13)
08Y1154	LSR	7970 (5)	17.0 (7)	4.9 (7)	95 (19)	1 (1)	33 (1)
08Y1114	LJ	7950 (6)	15.1 (19)	5.0 (1)	95 (19)	1 (1)	39 (17)
07Y477	M	7640 (7)	16.3 (12)	5.0 (1)	92 (7)	1 (1)	36 (3)
08Y3134	M	7640 (8)	15.9 (15)	4.8 (12)	83 (1)	1 (1)	39 (17)
07Y700	M	7540 (9)	16.5 (9)	4.8 (12)	92 (7)	1 (1)	36 (9)
07Y692	M	7360 (10)	14.9 (20)	4.8 (12)	93 (11)	1 (1)	38 (15)
07Y691	M	7340 (11)	16.5 (10)	4.7 (19)	88 (4)	2 (20)	36 (8)
M205	M	7320 (12)	17.6 (4)	4.7 (18)	93 (11)	1 (1)	37 (11)
07Y697	M	7190 (13)	16.1 (14)	4.6 (22)	93 (11)	1 (1)	33 (2)
07Y466	M	7170 (14)	16.3 (12)	4.9 (10)	93 (9)	1 (1)	37 (10)
CH-201	SPQ	7170 (15)	16.4 (11)	5.0 (1)	86 (2)	46 (22)	36 (3)
08Y2162	SPQ	7160 (16)	15.5 (18)	5.0 (1)	90 (5)	1 (1)	36 (3)
08Y2082	MPQ	7020 (17)	17.3 (5)	4.9 (7)	93 (11)	1 (1)	39 (16)
CT201	LB	6740 (18)	15.6 (17)	5.0 (1)	93 (11)	1 (1)	42 (22)
08Y2147	MPQ	6060 (19)	17.2 (6)	4.8 (12)	93 (9)	1 (1)	40 (19)
CT202	LB	5290 (20)	14.1 (22)	4.8 (12)	90 (5)	1 (1)	36 (3)
09Y139	LB	5170 (21)	14.4 (21)	4.7 (19)	93 (11)	1 (1)	36 (3)
08Y138	LB	4940 (22)	16.9 (8)	4.8 (12)	94 (17)	1 (1)	41 (21)
MEAN		7170	16.5	4.8	92	3	37
CV		7	3.9	3.2	0.6	397.8	3.4
LSD (.05)		1050	1.3		1		3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; R = Newrex; SR = stemrot resistant;

B = Basmati; J = Jasmine.

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

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

Numbers in parentheses indicate relative rank in column.

Table 17. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/
Late Rice Varieties by Location and Year (2005-2009)

Location	Year	M-205	M-402	M-202	L-205	L-206
Biggs (RES)	2005	9110	8570	8610	9110	7900
	2006	8830	8280	8620	8920	9210
	2007	10080	8940	8960	9430	10390
	2008	10950	9220	10310	9890	10740
	2009	9290	9110	8300	9170	9950
Location Mean		9652	8824	8960	9304	9638
Glenn	2005	8190	9040	8430	7510	7570
	2006	7050	7990	6820	6780	6700
	2007	10400	9080	9110	9150	9670
	2008	8440	7240	8300	8820	8710
	2009	10120	10610	9230	9910	10440
Location Mean		8840	8792	8378	8434	8618
Sutter	2005	10040	7530	9500	9560	9790
	2006	8490	7290	7760	8730	8810
	2007	10320	8900	9800	10010	9580
	2008	8430	9180	8780	7760	7830
	2009	8180	8010	7080	6570	7470
Location Mean		9092	8182	8584	8526	8696
Loc/Years Mean		9195	8599	8641	8755	8984
Yield % M-202		106.4	99.5	100	101.3	102.6
Number of Tests		15	15	15	15	15

Table 18. Twitchell island very early large plot variety trial.

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Days to 50% Heading
Calmochi-101	S	9890 (1)	15.0 (4)	110 (1)
M-206	M	7450 (2)	18.9 (2)	121 (3)
M-104	M	6440 (3)	17.0 (3)	111 (2)
M-202	M	3870 (4)	19.7 (1)	125 (4)
MEAN		6910	17.7	117
CV		14	4.4	1.2
LSD (.05)		1760	1.4	3

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

Numbers in parentheses indicate relative rank in column.

Table 19. Twitchell Island very early small plot variety trial.

Variety	Grain Type	Grain at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
06Y565	L	9860 (1)	14.0 (18)	111 (8)	1 (1)	35 (9)
05Y471E	M	9580 (2)	16.7 (12)	110 (3)	1 (1)	36 (15)
05Y471L	M	9530 (3)	17.4 (9)	111 (7)	1 (1)	37 (18)
CM-101	S	9410 (4)	15.1 (14)	111 (5)	1 (1)	36 (10)
05Y343	S	9390 (5)	21.9 (2)	123 (16)	1 (1)	37 (17)
M206	M	9130 (6)	18.1 (7)	116 (14)	1 (1)	35 (8)
M104	M	8940 (7)	16.8 (11)	108 (1)	1 (1)	33 (3)
07Y843	M	8850 (8)	18.7 (5)	115 (12)	1 (1)	34 (5)
04Y177	S	8780 (9)	16.1 (13)	113 (9)	1 (1)	33 (4)
08Y3020	L	8680 (10)	17.5 (8)	110 (4)	1 (1)	35 (7)
07Y1067	M	8650 (11)	16.9 (10)	111 (5)	1 (1)	36 (14)
06Y513	L	8410 (12)	14.1 (16)	114 (11)	1 (1)	32 (2)
S-102	S	8370 (13)	14.9 (15)	109 (2)	1 (1)	36 (13)
L206	L	8230 (14)	14.0 (17)	113 (9)	1 (1)	30 (1)
07Y225	M	8030 (15)	18.2 (6)	115 (12)	1 (1)	36 (10)
07Y732	M	7400 (16)	19.8 (3)	127 (17)	1 (1)	34 (6)
M202	M	6520 (17)	18.8 (4)	123 (15)	1 (1)	37 (16)
04Y332-1	M	5010 (18)	22.9 (1)	131 (18)	1 (1)	36 (10)
MEAN		8490	17.3	115	1	35
CV		10.7	5.5	2.2		3.1
LSD (.05)		1290	1.4	4		2

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

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

Numbers in parentheses indicate relative rank in column.