

**ANNUAL REPORT  
COMPREHENSIVE RESEARCH ON RICE**

January 1, 2008 – March 31, 2009

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

**PROJECT LEADERS:**

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Rice Experiment Station Plant Breeders

LEVEL OF 2008 FUNDING: \$122,740

**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 (RES) 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 compared to standard varieties at each location within these groups to evaluate 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 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, 33 preliminary breeding lines and one commercial variety as a check, in two replications (four replications at RES).

**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 (four replications at RES).

**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 (four replications at RES).

## Objective II

**The Rice Systems Project:** To provide research on alternative crop establishment systems and more efficient cultural practices to manage weed resistance a long-term project was continued at the RES for the fourth year. After four years of the initial five treatments, the systems were rotated to determine how rapidly weed levels could be suppressed in a rice only rotation system. The rotated crop establishment systems continued with 1) conventional water seeding as a check standard; 2) conventional water seeding and no-till stale seedbed water seeding followed by no-till stale seedbed drill seeding and 3) conventional drill seeding and no-till stale seedbed drill seeding by no-till stale seedbed water seeding. Treatments 2 and 3 received intermittent irrigation to germinate weeds subsequently killed with glyphosate (Roundup) as a stale (subsequently undisturbed) seedbed. This is a collaborative project with components from RM-4, RP-1 and the new Rice Systems Project all working together.

## 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 24 trials including the 16 variety tests. Equipment from the UCCE-based pool for planting, fertilizing and harvesting field experiments was used at more than 15 sites at different times during the season. The most heavily used equipment was the harvester followed by the Clampco precision fertilizer applicator. We also continued with the prescribed maintenance program for the SWECO plot combine.

The SWECO combine was used to harvest seven of the eight statewide rice variety trials. ALMACO engineers designed and installed a spike-tooth cylinder and concave for the new

combine. Several additional modifications were made to the combine to accommodate the new cylinder. Following a week of successful field testing, the ALMACO was used to harvest our final statewide trial in Glenn County. Grain plot samples were very clean, seed condition was excellent, and grain loss was minimal. Based on these results, it was decided to accept the ALMACO combine.

#### **Objective IV**

**Extension Education:** We disseminated research-based information to California rice producers, dryer operators, millers and the general public through five winter grower meetings, three field days, personal communication, and through the distribution of three fact sheets (re-publication of the M-206 and L-206 factsheets) and the 2008 Characteristics of Publicly Developed Varieties fact sheet, 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 2008 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 several 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 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 one commercial variety and 33 preliminary lines evaluated in separate tests at each location.

Grain yields in the advanced tests averaged 10,330 lb/ac at Biggs-RES, 9,830 lb/ac at Sutter, 10,120 lb/ac at Yolo, and 8,900 lb/ac at San Joaquin (Table 1). Over all locations, the highest yielding entry on average was an advanced long grain line 06Y575 (10,600 lb/ac) followed by advanced medium grain 05Y724 and S-102 (10,460 and 10,190 lb/ac respectively). Other top yielding commercial varieties M-206, M-104, L-206, and CM-101 ranked fifth, sixth, eighth, and tenth, respectively. Averaged across locations, yields in the preliminary tests ranged from 8,530 to 10,130 lb/ac (Table 1). The average days to 50% heading for varieties in 2008 was one day more than in 2007. The majority of rice acreage was planted in a timely manner. Moderate

daytime and cooler nighttime temperatures were responsible for increasing the number of days to heading. Over a 5-year period and across locations, S-102 was the highest yielding variety followed by M-206 at 9,528 lbs/ac and 9,341 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 four commercial varieties and 32 preliminary lines evaluated in separate tests at each location. Commercial varieties at each location were CH-201, CM-101, S-102, M-202, M-205, M-206, M208, CT-201, CT-202, L-205, and L-206.

Yields in the advanced line tests averaged 10,530 lb/ac at the RES; 8,200 lb/ac at Butte, 10,220 lb/ac at Yuba, and 9690 lb/ac at Colusa, (Table 7). Advanced medium grain 05Y724 was the highest yielding entry (10,310 lb/ac) when averaged over four locations in 2008 (Table 7). Other consistently high yielding entries were 06Y575, 07Y752, L-206, M-206, and 06Y613, all ranking within the top ten at three of the four locations. The yield of commercial varieties L-206, M-206, M-205, M-208, S-102, and M-202, ranked fourth, fifth, seventh, ninth, eleventh, and twelfth, over all locations (Table 7). Average days to 50% heading ranged from 89 days at the RES to 93 days at the Colusa County site. The commercial standard M-202 headed at 92 days at the RES and 96 days at Colusa. M-205 was the highest yielding commercial variety (9,345 lb/ac) followed by M-206 (9,029 lb/ac) when averaged over the last five 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 10,400 lb/ac at the RES, 8,370 lb/ac at Glenn, and 8,540 lb/ac at Sutter (Table 13). The 2008 advanced over location average yield was 430 lb/ac less than the 2007 season average. The average yield at the RES was up 900 lbs, Glenn down 900 lbs, and Sutter down 1000 lbs compared to the 2007 season. The normally high yielding Sutter trial was adversely affected by deep water (8-12 inches) following levee failures. M-205 was the highest yielding commercial variety (9,270 lb/ac), ranking fourth over all. M-202 and L-206 were the next highest yielding commercial varieties across locations (Table 13). The waxy short grain entry 05Y343 was the highest yielding advanced entry across locations, at 9870 lb/ac. Average days to 50% heading ranged from 93 days at the RES to 96 days at the Glenn location. M-402 required the longest time to 50% heading among the commercial varieties at all locations, (average is 108 days).

Averaged over the last five years and across locations, M-205 is the highest yielding (9,438 lb/ac) commercial variety (Table 17). M-205 and M-402 produced 105% and 96%, respectively, of the yield of M-202 on average over the last 5 years (Table 17).

## Objective II - Cultural Practices

**Stand Establishment Trials:** From 2004 to 2007, a project at the RES was established to investigate different planting systems and their affect on weeds, stands and nitrogen management. The five treatments are 1) conventional water seeded; 2) conventional drill seeded; 3) spring tilled delayed stale seedbed water seeding; 4) minimum till (no spring till) water seeding; and, 5) minimum till (no spring till) drill seeding. Treatments 3, 4 and 5 were pre-flush irrigated to germinate weeds and treated with Roundup. During the season, weeds are treated with herbicides as necessary in the main plot with one area remaining untreated to evaluate weed germination and recruitment (reported under RP-1). In 2008 these three treatments were rotated such the water-seeded treatments 2 and 4 were followed by no spring till stale seedbed drill-seeding (treatment 5 above) and treatments 2 and 5 were rotated to no-till stale seedbed water seeding. Treatment 3 was discarded because the time required for seeding this experiment delayed planting beyond reasonable adoption (yields were always lowest in this treatment from 2004 to 2007). The purpose of these rotations was to determine the impact of various stand establishment options in rice-only rotational systems. Table 18 compares yields for these first year rotational treatments. This data shows no significant differences in yield for the rotations following the five previous establishment methods (although water seeded treatments trended higher in yield than drill seeded treatments). The critical issue for this experiment, however, is what these treatments contributed to weed control in the untreated weedy section of each plot. This data is reported under RP-1

**Rice Growth and Development Studies:** Initial field studies were conducted in 2005 in commercial fields located at the southern and northern ends of the Sacramento valley. An additional site was added in Yolo County, District 108 in 2006. One short grain cultivar, CM101 and three medium grain Calrose cultivars M104, M202, and M206 were grown in replicated plots at the three sites. The three sites were planted with the same varieties in 2007. The plots were direct seeded by hand into a continuously flooded field environment. The northern Glenn County (warmer) site was planted 9 and 14 days earlier than the cooler Sutter and Yolo County sites, respectively. Water and air temperatures were recorded at all sites from planting to grain maturity. The Counce 'Uniform, Objective, and Adaptive System for Expressing Rice Development' was used to record leaf and reproductive stage development. These results are highly detailed and are still being summarized at the writing of this report.

## 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 seventh year of 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, backpack CO<sub>2</sub> sprayers, and other equipment were used along with personnel who provided technical assistance for numerous field experiments in 2008. The Clampco precision fertilizer applicator was used for the Rice Systems

Project at the RES. The SWECO 324 plot combine was used to harvest 12 variety trials, the Rice System Project, two entomology tests, three seed treatment tests, and one rice fertility trial. The ALMACO was used to harvest two variety tests in Glenn County. Over 1,200 experimental plots were harvested in 2008. 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. More than 5 days were committed to assisting with modification, transportation, and field testing of the ALMACO combine.

#### **Objective IV - Publication and Distribution of Rice Research Information**

The following extension education programs were provided in of this objective:

1. Rice Field Day Program 2008, 53 pp.
2. The UCCE website was updated.
3. UCCE winter grower meetings were held at Colusa and Yuba City.
4. Two activities were held at the RES -- field demonstration on Rice Cultural Systems and Water Quality; and the annual California Rice Field day
5. Rice Breeders' tour.
6. A weed management field day was conducted at Roger's farm.

#### **Publications and Reports:**

Lundy, M., Fisher, A.J., van Kessel, C., Ruark, M.D., Pedrosd, G., Hill, J.E., Spenser and Linqvist, B.A. 2008. The Effect of Phosphorous Fertilizer Placement on Weed and Algae Growth in Rice Systems. The International Annual Joint Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 5-9 Oct, Houston, Texas.

Ruark, M.D., Linqvist, B.A., van Kessel, C., Six, J., Mutters, R.G., Greer, G.A. and Hill, J.E. 2008. Flooded Rice Agroecosystems and Water Quality in Northern California. The International Annual Joint Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 5-9 Oct, Houston, Texas.

Lundy, M., Fisher, A.J., van Kessel, C., Ruark, M.D., Pedrosd, G., Hill, J.E., Spenser, D., Mutters, R.G., Greer, G.A., and Linqvist, B.A. 2008. The Effect of Phosphorous Fertilizer Placement on Weed and Algae Growth. Poster presented at the 32<sup>nd</sup> Rice Technical Working Group Meeting, 18-21 February, San Diego, California.

Ruark, M.D., Linqvist, B.A., van Kessel, C., Six, J., Mutters, R.G., Greer, G.A. and Hill, J.E. 2008. Dissolved Organic Carbon Losses from Rice Production Systems Under Various Straw and Water Management Systems. Poster presented at the 32<sup>nd</sup> Rice Technical Working Group Meeting, 18-21 February, San Diego, California.

Ruark, M.D., Linquist, B.A., van Kessel, C., Six, J., Mutters, R.G., Greer, G.A. and Hill, J.E. 2008. Nitrogen, Phosphorus and Potassium Losses from Fields Flooded Rice Fields in Northern California. Poster presented at the 32<sup>nd</sup> Rice Technical Working Group Meeting, 18-21 February, San Diego, California.

Greer, C.A., Fischer, A.J., Espino, L.A., Mutters, R.G., Hill, J.E. and Eckert, J.W. 2008. Current Red Rice Situation in California. Presented at the Rice Field Day, 27 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. pp. 15-17.

Linquist, B.A., Espino, L.A., Fisher, A.J., Godfrey, L.C., Hill, J.E., Koffler, K.M., Lundy, M., Mutters, R.G., Ruark, M., and van Kessel, C. 2008. Alternative Rice Establishment Systems for Controlling Herbicide Resistant Weeds. Presented at the Rice Field Day, 27 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. pp. 12-14.

Lundy, A., Fisher, A.J., van Kessel, C., Ruark, M.D., Hill, J.E., Spenser, D., Mutters, R.G., Greer, G.A., and Linquist, B.A. 2008. Timing and Placement Effects Of P Fertilizer on Growth in California Rice Systems. Presented at the Rice Field Day, 27 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. pp. 27-28.

Ruark, M.D., Linquist, B.A., van Kessel, C., Six, J., Mutters, R.G., Greer, G.A. and Hill, J.E. 2008. Straw Management and Water Quality in Rice Production Systems. Presented at the Rice Field Day, 27 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. pp. 28-29.

Ruark, M.D., Linquist, B.A., van Kessel, C., Six, J., Mutters, R.G., Greer, G.A. and Hill, J.E. 2008. Nitrogen, Phosphorus, and Potassium Losses from Flooded Rice Fields in Northern California. Presented at the Rice Field Day, 27 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. pp. 29-30.

Hill, J.E., Canevari, W.M., Espino, L.A., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2008. University of California Cooperative Extension (UCCE) Rice Variety Adaptation and Cultural Practices Research. *In* Annual Report Comprehensive Rice Research 2007. University of California and USDA. (available in e-version only).

Linquist, B.A., van Kessel, C., Fischer, A.J., Hill, J.E., Koffler, K., Mutters, R.G., and Greer, C. 2008. Improving N Use Efficiency and Quantifying Changes in N Dynamics in Rice Systems with Varying Early Season Water Management Practices. *In* Annual Report Comprehensive Rice Research 2007. University of California and USDA. (available in e-version only).

Hill, J.E., 2008. Variety Trials. *In* 39<sup>th</sup> Annual Report-A Summary of Research from 2007 to the California Rice Growers. California Rice Research Board, P.O. Box 507, Yuba City, CA 95992. pp. 12-15.

Linguist, B.A., van Kessel, C., Hill, J.E., 2008. Soil Fertility and Fertilizer Use Under Varying Water Management Practices. *In* 39<sup>th</sup> Annual Report-A Summary of Research from 2007 to the California Rice Growers. California Rice Research Board, P.O. Box 507, Yuba City, CA 95992. pp. 17-18.

Jodari, F., Johnson, C.W., L., Lage, J., Andaya, V.C., Oster, J.J., Hill, J.E., Canevari, W.M., Espino, L.A., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2008. Characteristics of Public California Rice Varieties. Agronomy Fact Sheet Series 2008-1. 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 9790 lb/acre in the very early trials to 8,350 lb/acre in the early tests. In the intermediate to late tests the advanced lines average yield was 9,660 lb/acre. Planting of the earliest rice fields was on schedule and few rain delays were experienced during the remainder of the planting season. Lack of early spring rains allowed for early field preparation. Several advanced lines in 2008 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 long-term rice cropping systems experiment on rice stand establishment was continued at the RES. After five years showing no significant differences in yield between four of the five establishment comparisons, the systems were rotated. Water seeded treatments were rotated to no spring till drill seeded stale seedbeds and drill-seeded systems were rotated to water-seeded no spring till stale seedbeds. No significant differences in yield were reported in the weed free main plot yields after the first year of the rotation. However, the primary purpose of these rotations is to determine the rotational effect in the areas left unweeded. These results will be reported in RP-1. This work demonstrates that different stand establishment practices with-in rice only rotations (heavy soils) are not significantly different in yield. However, this data should be considered in the context of changes in weed recruitment to determine their real impact on rice establishment systems.

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, update of UCCE rice website, rice field days, and promoting work through fact sheets and publications.

Table 1. 2008 Very Early Rice Variety Tests - Four Location Summary

*Advanced Lines and Varieties*

Variety	Grain Type	Ave Grain Yield at 14% Moisture		Single Location Yields				Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre	Biggs	Sutter	Yolo	San Joaquin						
06Y575	LR	<b>10600 (1)</b>	10480 (6)	10350 (3)	11120 (1)	10440 (1)	15.8 (11)	5.0 (5)	98 (14)	1 (4)	37 (16)	
05Y724	M	<b>10460 (2)</b>	10670 (4)	10420 (1)	10750 (2)	10020 (2)	18.4 (4)	4.9 (9)	93 (6)	4 (9)	35 (9)	
S-102	S	<b>10190 (3)</b>	10240 (9)	10190 (4)	10340 (6)	10000 (3)	16.0 (10)	5.0 (3)	89 (1)	10 (13)	33 (1)	
05Y196	SPQ	<b>10190 (4)</b>	10380 (8)	10400 (2)	10530 (3)	9450 (6)	17.8 (6)	5.0 (2)	94 (7)	24 (16)	35 (8)	
M206	M	<b>10140 (5)</b>	10900 (3)	9800 (9)	10480 (5)	9360 (9)	18.0 (5)	4.9 (13)	94 (10)	4 (11)	35 (10)	
M104	M	<b>9950 (6)</b>	10000 (14)	10100 (5)	9930 (11)	9780 (4)	16.9 (8)	5.0 (8)	90 (2)	4 (10)	33 (2)	
05Y471	M	<b>9940 (7)</b>	10030 (12)	9830 (8)	10520 (4)	9390 (8)	17.1 (7)	4.9 (12)	92 (4)	3 (8)	34 (7)	
L206	L	<b>9850 (8)</b>	11180 (1)	9840 (7)	10210 (7)	8160 (12)	14.7 (17)	4.8 (16)	94 (8)	1 (4)	34 (5)	
01Y655	LR	<b>9830 (9)</b>	10610 (5)	9720 (11)	10060 (10)	8930 (11)	15.5 (14)	4.9 (11)	101 (17)	2 (7)	37 (17)	
CM-101	SWX	<b>9820 (10)</b>	9960 (15)	10010 (6)	9830 (13)	9470 (5)	15.7 (12)	4.9 (14)	91 (3)	11 (14)	33 (3)	
06Y513	L	<b>9680 (11)</b>	10420 (7)	9520 (13)	9840 (12)	8960 (10)	15.5 (15)	4.9 (10)	98 (13)	1 (1)	36 (14)	
04Y177	SPQ	<b>9670 (12)</b>	9350 (17)	9790 (10)	10150 (8)	9390 (7)	16.0 (9)	5.0 (7)	93 (5)	19 (15)	34 (6)	
07Y515	L	<b>9490 (13)</b>	11060 (2)	9330 (16)	9770 (14)	7780 (14)	15.1 (16)	4.8 (15)	94 (9)	1 (1)	34 (4)	
M202	M	<b>9410 (14)</b>	10170 (11)	9540 (12)	10140 (9)	7770 (15)	19.1 (2)	5.0 (3)	98 (15)	5 (12)	36 (13)	
L205	LR	<b>9170 (15)</b>	10010 (13)	9490 (14)	9590 (16)	7580 (16)	15.6 (13)	4.8 (17)	99 (16)	1 (1)	36 (15)	
06Y175	MPQ	<b>9070 (16)</b>	9870 (16)	9320 (17)	9200 (17)	7890 (13)	19.2 (1)	5.0 (1)	95 (11)	33 (17)	35 (11)	
04Y332	MPQ	<b>9050 (17)</b>	10230 (10)	9370 (15)	9610 (15)	6970 (17)	18.6 (3)	5.0 (5)	97 (12)	2 (6)	35 (12)	
MEAN		<b>9790</b>	10330	9830	10120	8900	16.8	4.9	95	7	35	
CV		<b>4.1</b>	5.5	3.7	3.1	3.6	5.9	2.1	1	137.2	1.7	
LSD (.05)		<b>280</b>	800	510	440	460	0.7	0.1	1	7	0	

*Preliminary Lines and Varieties*

07Y210	S	<b>10130 (1)</b>	10040 (4)	10200 (8)	10700 (4)	9580 (5)	17.1 (10)	4.2 (33)	94 (28)	18 (32)	35 (33)
07Y163	SPQ	<b>10040 (2)</b>	9150 (23)	10520 (1)	10060 (16)	10420 (2)	17.0 (14)	4.7 (32)	89 (1)	24 (34)	34 (7)
07Y508	L	<b>9990 (3)</b>	9410 (15)	10440 (2)	10170 (13)	9920 (3)	15.2 (28)	4.9 (10)	92 (20)	1 (1)	34 (21)
07Y383	M	<b>9980 (4)</b>	9180 (21)	10010 (15)	10210 (12)	10510 (1)	17.1 (8)	4.9 (10)	91 (13)	2 (9)	34 (15)
07Y213	S	<b>9920 (5)</b>	9640 (11)	10040 (12)	10740 (3)	9270 (11)	16.7 (20)	4.8 (26)	92 (18)	14 (28)	34 (19)
07Y268	M	<b>9910 (6)</b>	9400 (16)	10030 (14)	10750 (1)	9460 (7)	17.0 (12)	5.0 (6)	92 (19)	3 (17)	34 (20)
07Y262	M	<b>9890 (7)</b>	9540 (13)	10170 (9)	10650 (5)	9190 (14)	17.5 (7)	4.9 (14)	93 (22)	5 (22)	34 (22)
07Y435	M	<b>9820 (8)</b>	9360 (17)	10370 (3)	10340 (9)	9200 (12)	17.7 (4)	5.0 (6)	93 (22)	3 (18)	35 (24)
07Y412	M	<b>9800 (9)</b>	9690 (10)	9810 (19)	10050 (17)	9660 (4)	17.1 (11)	5.0 (6)	92 (16)	8 (24)	34 (9)
07Y276	M	<b>9790 (10)</b>	9600 (12)	10260 (6)	10300 (10)	8980 (19)	17.1 (9)	4.9 (17)	91 (7)	6 (23)	33 (4)
M206	M	<b>9760 (11)</b>	8880 (27)	10210 (7)	10540 (7)	9400 (8)	17.7 (2)	5.0 (6)	93 (22)	3 (18)	35 (26)
07Y255	M	<b>9730 (12)</b>	9360 (17)	10080 (11)	10160 (14)	9330 (10)	17.0 (13)	4.9 (17)	90 (2)	2 (9)	33 (1)
07Y183	SPQ	<b>9650 (13)</b>	9900 (7)	9920 (17)	9640 (30)	9150 (15)	16.8 (17)	4.8 (28)	91 (13)	16 (29)	34 (16)
05Y547	LR	<b>9650 (14)</b>	10040 (5)	10330 (4)	10440 (8)	7780 (28)	14.7 (32)	5.0 (3)	95 (29)	2 (9)	35 (30)
07Y232	M	<b>9640 (15)</b>	10630 (1)	9770 (21)	9980 (21)	8180 (24)	16.8 (18)	4.9 (23)	91 (7)	3 (16)	35 (23)
07Y534	LSR	<b>9490 (16)</b>	10200 (3)	9610 (28)	10580 (6)	7580 (30)	16.5 (23)	4.8 (29)	97 (32)	1 (1)	35 (32)
07Y440	M	<b>9460 (17)</b>	8710 (30)	10030 (13)	9990 (20)	9120 (16)	16.3 (25)	4.8 (26)	91 (7)	2 (15)	34 (14)
CH-201	SPQ	<b>9420 (18)</b>	9110 (24)	9720 (23)	10740 (2)	8100 (26)	15.7 (26)	5.0 (1)	95 (30)	17 (31)	35 (27)
07Y235	M	<b>9410 (19)</b>	8590 (31)	10330 (5)	9690 (27)	9020 (18)	16.4 (24)	5.0 (1)	90 (6)	21 (33)	34 (16)
07Y176	SPQ	<b>9410 (20)</b>	9320 (20)	9570 (29)	9660 (29)	9070 (17)	16.6 (21)	4.9 (17)	92 (15)	4 (20)	34 (11)
07Y389	M	<b>9380 (21)</b>	8930 (26)	9620 (27)	9770 (26)	9200 (13)	17.6 (5)	4.9 (14)	92 (16)	1 (1)	34 (13)
07Y492	L	<b>9350 (22)</b>	9870 (8)	9680 (26)	10220 (11)	7640 (29)	14.1 (33)	4.9 (17)	94 (25)	1 (1)	34 (12)
06Y199	SPQ	<b>9340 (23)</b>	8020 (34)	10080 (10)	9790 (25)	9480 (6)	16.8 (19)	4.9 (14)	91 (10)	17 (30)	33 (5)
07Y545	LR	<b>9310 (24)</b>	10590 (2)	9700 (24)	9520 (33)	7410 (32)	15.2 (29)	4.9 (10)	98 (34)	1 (1)	35 (34)
04Y330	MPQ	<b>9300 (25)</b>	8860 (28)	10000 (16)	10100 (15)	8260 (23)	18.5 (1)	5.0 (3)	91 (10)	13 (27)	34 (9)
07Y516	LSR	<b>9290 (26)</b>	9920 (6)	9250 (32)	10040 (18)	7940 (27)	15.5 (27)	4.9 (25)	97 (32)	1 (1)	35 (29)
05Y552	LJ	<b>9280 (27)</b>	9000 (25)	9560 (30)	9620 (31)	8950 (20)	14.0 (34)	4.9 (21)	93 (21)	2 (9)	34 (18)
07Y186	MPQ	<b>9270 (28)</b>	9150 (22)	9810 (20)	9850 (24)	8280 (22)	16.9 (15)	4.9 (23)	94 (25)	2 (9)	35 (28)
07Y277	M	<b>9260 (29)</b>	8300 (32)	9740 (22)	9680 (28)	9340 (9)	16.8 (16)	4.9 (10)	90 (4)	9 (25)	34 (6)
07Y226	M	<b>9110 (30)</b>	9320 (19)	9680 (25)	9900 (23)	7530 (31)	16.5 (22)	4.9 (21)	90 (5)	4 (20)	33 (3)
06Y184	MPQ	<b>9050 (31)</b>	8160 (33)	9470 (31)	10020 (19)	8540 (21)	17.5 (6)	5.0 (5)	94 (27)	2 (9)	35 (31)
07Y533	L	<b>8970 (32)</b>	9490 (14)	9230 (33)	9950 (22)	7240 (33)	14.9 (31)	4.7 (31)	95 (31)	1 (1)	35 (25)
07Y217	SWX	<b>8960 (33)</b>	9780 (9)	9860 (18)	8080 (34)	8130 (25)	17.7 (3)	2.9 (34)	90 (2)	12 (26)	34 (7)
07Y495	LSR	<b>8530 (34)</b>	8730 (29)	9050 (34)	9570 (32)	6790 (34)	15.0 (30)	4.7 (30)	91 (12)	1 (1)	33 (2)
MEAN		<b>9510</b>	9350	9890	10040	8750	16.5	4.8	92	6	34
CV		<b>5.5</b>	7.8	3.4	3.5	6.7	4.6	3.9	1.1	129.6	1.8
LSD (.05)		<b>520</b>	680	720	1190	1190	0.7	0.2	1	8	1

S = short; M = medium; L = long; J = Jasmine; 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. 2008 Very Early Rice Variety Test - Biggs (RES)

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
L206	L	11180 (1)	15.8 (17)	4.6 (15)	87 (5)	2 (7)	34 (5)
07Y515	L	11060 (2)	16.7 (13)	4.6 (16)	88 (7)	1 (1)	35 (7)
M206	M	10900 (3)	17.8 (7)	4.8 (10)	90 (11)	1 (1)	35 (11)
05Y724	M	10670 (4)	19.6 (1)	4.8 (10)	88 (6)	8 (10)	34 (6)
01Y655	LR	10610 (5)	18.0 (5)	4.7 (14)	94 (17)	1 (1)	37 (17)
06Y575	LR	10480 (6)	17.3 (10)	4.9 (6)	92 (14)	1 (1)	36 (14)
06Y513	L	10420 (7)	17.8 (7)	4.7 (13)	91 (13)	1 (1)	36 (13)
05Y196	SPQ	10380 (8)	16.9 (12)	5.0 (2)	90 (12)	43 (15)	35 (12)
S-102	S	10240 (9)	18.9 (2)	4.9 (3)	80 (1)	38 (13)	32 (1)
04Y332	MPQ	10230 (10)	18.3 (4)	4.9 (8)	89 (10)	3 (8)	35 (10)
M202	M	10170 (11)	17.7 (9)	4.9 (3)	92 (15)	9 (11)	36 (15)
05Y471	M	10030 (12)	17.2 (11)	4.9 (8)	85 (4)	4 (9)	33 (4)
L205	LR	10010 (13)	17.8 (6)	4.5 (17)	93 (16)	1 (1)	37 (16)
M104	M	10000 (14)	15.9 (16)	4.9 (6)	82 (2)	13 (12)	32 (2)
CM-101	SWX	9960 (15)	16.2 (15)	4.9 (5)	84 (3)	40 (14)	33 (3)
06Y175	MPQ	9870 (16)	18.5 (3)	5.0 (1)	89 (9)	70 (17)	35 (9)
04Y177	SPQ	9350 (17)	16.4 (14)	4.8 (10)	88 (8)	65 (16)	35 (8)
MEAN		10330	17.4	4.8	88	18	35
CV		5.5	8.9	2.2	1.7	87.3	1.7
LSD (.05)		800	2.2	0.1	2	22	1
<i>Preliminary Lines and Varieties</i>							
07Y232	M	10630 (1)	14.2 (34)	4.8 (7)	85 (18)	8 (18)	34 (18)
07Y545	LR	10590 (2)	16.1 (19)	4.8 (13)	91 (33)	1 (1)	36 (33)
07Y534	LSR	10200 (3)	17.8 (5)	4.7 (21)	87 (26)	1 (1)	34 (26)
07Y210	S	10040 (4)	16.2 (18)	4.4 (33)	88 (29)	60 (31)	34 (29)
05Y547	LR	10040 (5)	15.3 (28)	4.9 (6)	87 (28)	1 (1)	34 (28)
07Y516	LSR	9920 (6)	15.0 (32)	4.5 (31)	89 (31)	1 (1)	35 (31)
07Y183	SPQ	9900 (7)	16.1 (20)	4.6 (30)	83 (8)	60 (31)	33 (8)
07Y492	L	9870 (8)	15.2 (29)	4.6 (26)	86 (23)	1 (1)	34 (23)
07Y217	SWX	9780 (9)	17.2 (8)	4.1 (34)	82 (4)	45 (29)	32 (4)
07Y412	M	9690 (10)	16.8 (12)	4.8 (7)	85 (18)	28 (26)	34 (18)
07Y213	S	9640 (11)	15.8 (22)	4.7 (17)	83 (8)	5 (15)	33 (8)
07Y276	M	9600 (12)	16.7 (14)	4.8 (7)	82 (5)	18 (25)	32 (5)
07Y262	M	9540 (13)	16.3 (16)	4.7 (17)	87 (24)	15 (24)	34 (24)
07Y533	L	9490 (14)	16.1 (21)	4.5 (31)	89 (31)	1 (1)	35 (31)
07Y508	L	9410 (15)	15.2 (30)	4.8 (13)	84 (11)	1 (1)	33 (11)
07Y268	M	9400 (16)	16.8 (12)	4.8 (7)	86 (21)	8 (18)	34 (21)
07Y255	M	9360 (17)	15.8 (22)	4.7 (21)	81 (2)	3 (10)	32 (2)
07Y435	M	9360 (17)	18.2 (3)	4.8 (7)	86 (21)	10 (20)	34 (21)
07Y226	M	9320 (19)	15.7 (25)	4.6 (27)	84 (13)	13 (22)	33 (13)
07Y176	SPQ	9320 (20)	16.7 (15)	4.7 (21)	83 (8)	13 (22)	33 (8)
07Y383	M	9180 (21)	17.1 (9)	4.8 (13)	85 (15)	3 (10)	33 (15)
07Y186	MPQ	9150 (22)	17.3 (7)	4.7 (21)	87 (24)	3 (10)	34 (24)
07Y163	SPQ	9150 (23)	16.3 (17)	4.6 (27)	82 (5)	40 (28)	32 (5)
CH-201	SPQ	9110 (24)	15.8 (22)	5.0 (1)	91 (34)	10 (20)	36 (34)
05Y552	LJ	9000 (25)	14.5 (33)	4.7 (20)	84 (14)	3 (10)	33 (14)
07Y389	M	8930 (26)	16.9 (11)	4.7 (17)	85 (18)	1 (1)	34 (18)
M206	M	8880 (27)	17.3 (6)	4.8 (7)	87 (26)	6 (17)	34 (26)
04Y330	MPQ	8860 (28)	18.7 (1)	4.9 (5)	85 (15)	45 (29)	33 (15)
07Y495	LSR	8730 (29)	15.2 (30)	4.6 (27)	81 (2)	1 (1)	32 (2)
07Y440	M	8710 (30)	15.7 (25)	4.7 (21)	83 (7)	5 (15)	33 (7)
07Y235	M	8590 (31)	15.6 (27)	5.0 (1)	81 (1)	80 (34)	32 (1)
07Y277	M	8300 (32)	17.0 (10)	4.8 (13)	84 (11)	30 (27)	33 (11)
06Y184	MPQ	8160 (33)	18.0 (4)	5.0 (1)	89 (30)	3 (10)	35 (30)
06Y199	SPQ	8020 (34)	18.7 (1)	5.0 (4)	85 (15)	60 (31)	33 (15)
MEAN		9350	16.4	4.7	85	17	33
CV		7.8	7.3	2.1	1.3	69.3	1.3
LSD (.05)				0.2	2	24	1

S = short; M = medium; L = long; J = Jasmine; 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. 2008 Very Early 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)
05Y724	M	10420 (1)	16.8 (4)	5.0 (1)	88 (6)	5 (13)	35 (6)
05Y196	SPQ	10400 (2)	16.6 (5)	5.0 (1)	87 (5)	30 (17)	34 (5)
06Y575	LR	10350 (3)	14.1 (14)	5.0 (1)	95 (15)	2 (12)	37 (15)
S-102	S	10190 (4)	14.7 (11)	5.0 (1)	82 (1)	1 (1)	32 (1)
M104	M	10100 (5)	16.3 (7)	5.0 (1)	83 (2)	1 (1)	33 (2)
CM-101	SWX	10010 (6)	15.2 (10)	5.0 (15)	84 (3)	1 (1)	33 (3)
L206	L	9840 (7)	13.8 (16)	5.0 (1)	89 (8)	1 (1)	35 (8)
05Y471	M	9830 (8)	16.4 (6)	5.0 (1)	88 (7)	1 (1)	35 (7)
M206	M	9800 (9)	17.0 (3)	5.0 (15)	89 (10)	13 (16)	35 (10)
04Y177	SPQ	9790 (10)	15.2 (9)	5.0 (1)	86 (4)	9 (15)	34 (4)
01Y655	LR	9720 (11)	13.5 (17)	5.0 (1)	98 (17)	6 (14)	39 (17)
M202	M	9540 (12)	18.7 (1)	5.0 (1)	89 (12)	1 (1)	35 (12)
06Y513	L	9520 (13)	14.1 (13)	5.0 (1)	94 (14)	1 (1)	37 (14)
L205	LR	9490 (14)	14.0 (15)	4.9 (17)	95 (15)	1 (1)	37 (15)
04Y332	MPQ	9370 (15)	16.2 (8)	5.0 (1)	90 (13)	1 (1)	35 (13)
07Y515	L	9330 (16)	14.4 (12)	5.0 (1)	89 (11)	1 (1)	35 (11)
06Y175	MPQ	9320 (17)	17.6 (2)	5.0 (1)	89 (8)	1 (1)	35 (8)
MEAN		9830	15.6	5.0	89	4	35
CV		3.7	2.9	1.4	0.6	200.7	0.6
LSD (.05)		510	0.6		1	13	0

*Preliminary Lines and Varieties*

07Y163	SPQ	10520 (1)	15.3 (25)	4.9 (27)	82 (1)	45 (34)	32 (1)
07Y508	L	10440 (2)	14.8 (29)	5.0 (1)	88 (20)	1 (1)	35 (20)
07Y435	M	10370 (3)	16.5 (16)	5.0 (1)	89 (24)	1 (1)	35 (24)
05Y547	LR	10330 (4)	14.4 (31)	5.0 (1)	90 (30)	1 (1)	35 (30)
07Y235	M	10330 (5)	16.5 (16)	5.0 (1)	87 (17)	1 (1)	34 (17)
07Y276	M	10260 (6)	17.3 (6)	4.9 (31)	87 (17)	1 (1)	34 (17)
M206	M	10210 (7)	17.6 (3)	5.0 (1)	88 (20)	1 (1)	35 (20)
07Y210	S	10200 (8)	17.8 (2)	3.5 (33)	89 (24)	1 (1)	35 (24)
07Y262	M	10170 (9)	17.2 (7)	5.0 (1)	89 (23)	1 (1)	35 (23)
06Y199	SPQ	10080 (10)	15.8 (23)	5.0 (1)	85 (8)	3 (32)	33 (8)
07Y255	M	10080 (11)	17.3 (5)	5.0 (1)	84 (6)	1 (1)	33 (6)
07Y213	S	10040 (12)	16.4 (20)	5.0 (1)	85 (10)	1 (1)	34 (10)
07Y440	M	10030 (13)	15.9 (22)	5.0 (1)	85 (10)	1 (1)	34 (10)
07Y268	M	10030 (14)	16.7 (13)	5.0 (1)	86 (12)	1 (1)	34 (12)
07Y383	M	10010 (15)	16.6 (15)	5.0 (1)	86 (12)	1 (1)	34 (12)
04Y330	MPQ	10000 (16)	17.0 (9)	5.0 (1)	85 (8)	3 (32)	33 (8)
07Y183	SPQ	9920 (17)	16.7 (10)	4.7 (32)	83 (2)	1 (1)	33 (2)
07Y217	SWX	9860 (18)	18.2 (1)	1.8 (34)	84 (4)	1 (1)	33 (4)
07Y412	M	9810 (19)	16.7 (12)	5.0 (1)	88 (19)	1 (1)	34 (19)
07Y186	MPQ	9810 (20)	16.5 (18)	5.0 (1)	89 (24)	1 (1)	35 (24)
07Y232	M	9770 (21)	16.6 (14)	5.0 (1)	84 (6)	1 (1)	33 (6)
07Y277	M	9740 (22)	16.1 (21)	5.0 (1)	84 (4)	1 (1)	33 (4)
CH-201	SPQ	9720 (23)	15.1 (26)	5.0 (1)	89 (24)	1 (1)	35 (24)
07Y545	LR	9700 (24)	14.4 (32)	5.0 (1)	94 (33)	1 (1)	37 (33)
07Y226	M	9680 (25)	16.4 (19)	5.0 (1)	83 (2)	1 (1)	33 (2)
07Y492	L	9680 (26)	13.8 (33)	5.0 (1)	89 (24)	1 (1)	35 (24)
07Y389	M	9620 (27)	17.5 (4)	5.0 (1)	87 (15)	1 (1)	34 (16)
07Y534	LSR	9610 (28)	15.7 (24)	5.0 (1)	94 (33)	1 (1)	37 (33)
07Y176	SPQ	9570 (29)	16.7 (11)	5.0 (1)	86 (12)	1 (1)	34 (12)
05Y552	LJ	9560 (30)	13.5 (34)	4.9 (27)	90 (29)	1 (1)	35 (29)
06Y184	MPQ	9470 (31)	17.1 (8)	5.0 (1)	88 (20)	1 (1)	35 (20)
07Y516	LSR	9250 (32)	15.0 (27)	5.0 (1)	94 (32)	1 (1)	37 (32)
07Y533	L	9230 (33)	14.5 (30)	4.9 (27)	91 (31)	1 (1)	36 (31)
07Y495	LSR	9050 (34)	14.9 (28)	4.9 (27)	87 (15)	1 (1)	34 (15)
MEAN		9890	16.1	4.8	87	2	34
CV		3.4	2.6	3.6	1	253.1	0.9
LSD (.05)		680	0.8	0.4	2	12	1

S = short; M = medium; L = long; J = Jasmine; 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. 2008 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	11120 (1)	15.3 (11)	5.0 (1)	92 (14)	1 (1)	36 (14)
05Y724	M	10750 (2)	17.9 (4)	5.0 (1)	86 (3)	1 (1)	34 (3)
05Y196	SPQ	10530 (3)	17.8 (6)	5.0 (1)	87 (7)	23 (16)	34 (8)
05Y471	M	10520 (4)	17.0 (8)	5.0 (1)	84 (1)	6 (14)	33 (1)
M206	M	10480 (5)	17.9 (5)	5.0 (1)	88 (10)	2 (9)	35 (10)
S-102	S	10340 (6)	14.7 (16)	5.0 (1)	86 (4)	2 (9)	34 (4)
L206	L	10210 (7)	14.7 (15)	4.7 (17)	90 (12)	1 (1)	35 (12)
04Y177	SPQ	10150 (8)	15.5 (9)	5.0 (1)	87 (6)	1 (1)	34 (6)
M202	M	10140 (9)	18.6 (2)	5.0 (1)	92 (14)	9 (15)	36 (14)
01Y655	LR	10060 (10)	14.9 (14)	5.0 (1)	97 (17)	2 (9)	38 (17)
M104	M	9930 (11)	17.0 (7)	5.0 (1)	85 (2)	1 (1)	33 (2)
06Y513	L	9840 (12)	15.0 (13)	5.0 (1)	92 (13)	1 (1)	36 (13)
CM-101	SWX	9830 (13)	15.3 (10)	5.0 (1)	86 (4)	2 (9)	34 (4)
07Y515	L	9770 (14)	14.6 (17)	5.0 (16)	89 (11)	1 (1)	35 (11)
04Y332	MPQ	9610 (15)	18.0 (3)	5.0 (1)	88 (9)	2 (9)	35 (9)
L205	LR	9590 (16)	15.1 (12)	5.0 (1)	92 (14)	1 (1)	36 (14)
06Y175	MPQ	9200 (17)	19.0 (1)	5.0 (1)	87 (7)	60 (17)	34 (7)
MEAN		10120	16.4	5.0	89	7	35
CV		3.1	4.5	1.3	0.8	149.4	0.8
LSD (.05)		440	1.1	0.1	1	14	0

*Preliminary Lines and Varieties*

07Y268	M	10750 (1)	17.9 (4)	5.0 (1)	87 (15)	3 (24)	34 (16)
CH-201	SPQ	10740 (2)	15.1 (28)	5.0 (1)	88 (18)	58 (34)	35 (18)
07Y213	S	10740 (3)	17.5 (10)	5.0 (1)	91 (29)	50 (33)	36 (29)
07Y210	S	10700 (4)	17.1 (13)	4.5 (32)	91 (29)	11 (31)	36 (29)
07Y262	M	10650 (5)	18.3 (3)	5.0 (1)	88 (18)	1 (1)	35 (18)
07Y534	LSR	10580 (6)	16.1 (26)	4.8 (30)	92 (33)	1 (1)	36 (33)
M206	M	10540 (7)	18.4 (1)	5.0 (1)	88 (18)	6 (29)	35 (18)
05Y547	LR	10440 (8)	14.7 (32)	5.0 (1)	92 (32)	3 (24)	36 (32)
07Y435	M	10340 (9)	18.3 (2)	5.0 (1)	88 (18)	1 (1)	35 (18)
07Y276	M	10300 (10)	17.3 (11)	5.0 (1)	85 (6)	6 (29)	34 (6)
07Y492	L	10220 (11)	13.9 (34)	5.0 (1)	89 (26)	1 (1)	35 (26)
07Y383	M	10210 (12)	17.2 (12)	5.0 (1)	85 (5)	1 (1)	33 (5)
07Y508	L	10170 (13)	16.1 (27)	5.0 (1)	88 (18)	1 (1)	35 (18)
07Y255	M	10160 (14)	17.0 (15)	5.0 (1)	84 (1)	1 (1)	33 (1)
04Y330	MPQ	10100 (15)	17.6 (6)	5.0 (1)	85 (6)	1 (1)	34 (6)
07Y163	SPQ	10060 (16)	17.5 (9)	5.0 (1)	85 (6)	11 (31)	34 (6)
07Y412	M	10050 (17)	16.9 (17)	5.0 (1)	85 (6)	1 (1)	34 (6)
07Y516	LSR	10040 (18)	16.6 (22)	5.0 (1)	92 (33)	1 (1)	36 (33)
06Y184	MPQ	10020 (19)	16.7 (20)	5.0 (1)	89 (23)	1 (1)	35 (23)
07Y440	M	9990 (20)	16.6 (21)	5.0 (1)	87 (15)	1 (1)	34 (16)
07Y232	M	9980 (21)	17.7 (5)	5.0 (1)	85 (6)	1 (1)	34 (6)
07Y533	L	9950 (22)	14.8 (31)	5.0 (1)	90 (28)	1 (1)	35 (28)
07Y226	M	9900 (23)	16.9 (18)	5.0 (1)	84 (1)	1 (1)	33 (1)
07Y186	MPQ	9850 (24)	16.5 (23)	5.0 (1)	89 (23)	1 (1)	35 (23)
06Y199	SPQ	9790 (25)	16.7 (19)	4.8 (30)	86 (13)	3 (24)	34 (13)
07Y389	M	9770 (26)	17.6 (7)	5.0 (1)	86 (12)	1 (1)	34 (12)
07Y235	M	9690 (27)	17.1 (14)	5.0 (1)	84 (1)	3 (24)	33 (1)
07Y277	M	9680 (28)	17.5 (8)	5.0 (1)	84 (1)	3 (24)	33 (1)
07Y176	SPQ	9660 (29)	16.3 (25)	5.0 (1)	87 (14)	1 (1)	34 (14)
07Y183	SPQ	9640 (30)	17.0 (16)	5.0 (1)	90 (27)	1 (1)	35 (27)
05Y552	LJ	9620 (31)	14.0 (33)	5.0 (1)	89 (23)	1 (1)	35 (23)
07Y495	LSR	9570 (32)	15.1 (29)	4.5 (32)	87 (15)	1 (1)	34 (15)
07Y545	LR	9520 (33)	14.8 (30)	5.0 (1)	91 (31)	1 (1)	36 (31)
07Y217	SWX	8080 (34)	16.5 (24)	2.5 (34)	85 (6)	1 (1)	34 (6)
MEAN		10040	16.6	4.9	87	5	34
CV		3.5	3.8	3.9	0.6	191.5	0.6
LSD (.05)		720	1.3	0.4	1	20	0

S = short; M = medium; L = long; J = Jasmine; 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. 2008 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	10440 (1)	16.4 (10)	5.0 (9)	113 (11)	1 (1)	45 (11)
05Y724	M	10020 (2)	19.3 (6)	4.9 (10)	111 (7)	1 (1)	44 (7)
S-102	S	10000 (3)	15.4 (13)	5.0 (1)	107 (1)	1 (1)	42 (1)
M104	M	9780 (4)	18.4 (7)	4.9 (10)	110 (4)	1 (1)	43 (4)
CM-101	SWX	9470 (5)	16.0 (11)	4.8 (16)	108 (2)	1 (1)	43 (2)
05Y196	SPQ	9450 (6)	19.8 (4)	5.0 (1)	111 (8)	1 (1)	44 (8)
04Y177	SPQ	9390 (7)	16.8 (9)	5.0 (1)	109 (3)	1 (1)	43 (3)
05Y471	M	9390 (8)	18.0 (8)	4.8 (14)	110 (5)	1 (1)	43 (5)
M206	M	9360 (9)	19.6 (5)	4.9 (13)	111 (8)	1 (1)	44 (8)
06Y513	L	8960 (10)	15.0 (15)	5.0 (1)	114 (12)	1 (1)	45 (12)
01Y655	LR	8930 (11)	15.6 (12)	5.0 (1)	116 (15)	1 (1)	46 (15)
L206	L	8160 (12)	14.6 (17)	4.9 (10)	110 (5)	1 (1)	43 (5)
06Y175	MPQ	7890 (13)	21.8 (2)	5.0 (1)	115 (13)	1 (1)	45 (13)
07Y515	L	7780 (14)	14.7 (16)	4.8 (15)	111 (8)	1 (1)	44 (8)
M202	M	7770 (15)	21.6 (3)	5.0 (1)	121 (17)	1 (1)	48 (17)
L205	LR	7580 (16)	15.4 (14)	4.8 (16)	115 (14)	1 (1)	45 (14)
04Y332	MPQ	6970 (17)	21.9 (1)	5.0 (1)	120 (16)	1 (1)	47 (16)
MEAN		8900	17.7	4.9	112	1	44
CV		3.6	5	3.2	0.7		0.7
LSD (.05)		460	1.3		1		0

*Preliminary Lines and Varieties*

07Y383	M	10510 (1)	17.7 (12)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y163	SPQ	10420 (2)	18.9 (3)	4.4 (32)	109 (1)	1 (1)	43 (1)
07Y508	L	9920 (3)	14.9 (30)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y412	M	9660 (4)	17.9 (8)	5.0 (1)	110 (6)	1 (1)	43 (6)
07Y210	S	9580 (5)	17.4 (13)	4.3 (33)	111 (24)	1 (1)	44 (24)
06Y199	SPQ	9480 (6)	15.9 (26)	5.0 (1)	109 (2)	1 (1)	43 (2)
07Y268	M	9460 (7)	16.7 (21)	5.0 (1)	110 (6)	1 (1)	43 (6)
M206	M	9400 (8)	17.8 (11)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y277	M	9340 (9)	16.8 (20)	5.0 (1)	110 (6)	1 (1)	43 (6)
07Y255	M	9330 (10)	17.9 (9)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y213	S	9270 (11)	17.3 (15)	4.7 (29)	109 (2)	1 (1)	43 (2)
07Y435	M	9200 (12)	17.8 (10)	5.0 (1)	111 (24)	1 (1)	44 (24)
07Y389	M	9200 (13)	18.5 (5)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y262	M	9190 (14)	18.2 (7)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y186	SPQ	9150 (15)	17.3 (14)	5.0 (1)	110 (6)	1 (1)	43 (6)
07Y440	M	9120 (16)	17.0 (19)	4.7 (28)	109 (2)	1 (1)	43 (2)
07Y176	SPQ	9070 (17)	16.5 (23)	5.0 (1)	111 (24)	1 (1)	44 (24)
07Y235	M	9020 (18)	16.3 (25)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y276	M	8980 (19)	17.3 (16)	5.0 (1)	110 (6)	1 (1)	43 (6)
05Y552	LJ	8950 (20)	14.1 (33)	5.0 (1)	110 (12)	1 (1)	43 (12)
06Y184	MPQ	8540 (21)	18.4 (6)	4.9 (26)	111 (24)	1 (1)	44 (24)
07Y183	MPQ	8280 (22)	17.2 (17)	4.9 (24)	111 (28)	1 (1)	44 (28)
04Y330	MPQ	8260 (23)	20.5 (1)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y232	M	8180 (24)	18.6 (4)	4.8 (27)	110 (6)	1 (1)	43 (6)
07Y217	SWX	8130 (25)	19.1 (2)	3.3 (34)	109 (2)	1 (1)	43 (2)
CH-201	SPQ	8100 (26)	16.7 (22)	5.0 (1)	113 (32)	1 (1)	45 (32)
07Y516	LSR	7940 (27)	15.7 (27)	5.0 (1)	113 (31)	1 (1)	44 (31)
05Y547	LR	7780 (28)	14.5 (31)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y492	L	7640 (29)	13.6 (34)	5.0 (1)	111 (28)	1 (1)	44 (28)
07Y534	LSR	7580 (30)	16.3 (24)	4.6 (30)	114 (33)	1 (1)	45 (33)
07Y226	M	7530 (31)	17.1 (18)	5.0 (1)	110 (12)	1 (1)	43 (12)
07Y545	LR	7410 (32)	15.3 (28)	5.0 (1)	116 (34)	1 (1)	46 (34)
07Y533	L	7240 (33)	14.3 (32)	4.5 (31)	112 (30)	1 (1)	44 (30)
07Y495	LSR	6790 (34)	15.0 (29)	4.9 (24)	110 (12)	1 (1)	43 (12)
MEAN		8750	16.9	4.8	110	1	43
CV		6.7	3.2	5.4	1.3		1.3
LSD (.05)		1190	1.1	0.5	3		1

S = short; M = medium; L = long; J = Jasmine; 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 (2004-2008)

Location	Year	M-104	M-202	M-206	Calmochi			
					101	S-102	L-205	L-206
Biggs (RES)	2004	<b>9380</b>	9050	10210	8150	9620	10350	10930
	2005	<b>5860</b>	7560	7970	7220	8350	8920	8400
	2006	<b>7970</b>	8960	9280	8490	9170	9350	9990
	2007	<b>8930</b>	10250	11030	6740	10730	9550	10360
	2008	<b>10000</b>	10170	10900	9960	10240	10010	11180
Location Mean		<b>8428</b>	9198	9878	8112	9622	9636	10172
San Joaquin	2004	<b>8880</b>	8530	9110	9250	8330	8050	8440
	2005	<b>7810</b>	7530	7550	8480	8430	7450	7190
	2006*	-	-	-	-	-	-	-
	2007	<b>9050</b>	6130	9380	9650	10340	7430	9850
	2008	<b>9780</b>	7770	9360	9470	10000	7580	8160
Location Mean		<b>8880</b>	7490	8850	9213	9275	7628	8410
Sutter	2004	<b>10400</b>	11090	10150	10750	11050	10400	10650
	2005	<b>7800</b>	7220	7570	7090	8510	7440	7310
	2006	<b>8480</b>	8580	8780	8640	9780	7970	9030
	2007	<b>10680</b>	10740	11250	11140	11100	10000	10440
	2008	<b>10100</b>	9540	9800	10010	10190	9490	9840
Location Mean		<b>9492</b>	9434	9510	9526	10126	9060	9454
Yolo	2004**	-	-	-	-	-	-	-
	2005	<b>8830</b>	9750	9600	8800	9460	9740	9640
	2006	<b>8020</b>	8700	8360	7610	8730	8570	8290
	2007	<b>7510</b>	7220	7350	7500	7140	7010	7520
	2008	<b>9930</b>	10140	10480	9830	10340	9590	10210
Location Mean		<b>8573</b>	8953	8948	8435	8918	8728	8915
Loc/Years Mean		<b>8856</b>	8829	9341	8821	9528	8828	9302
Yield % M-104		<b>100.0</b>	<b>99.7</b>	<b>105.5</b>	<b>99.6</b>	<b>107.6</b>	<b>99.7</b>	<b>105.0</b>
Number of Tests		<b>18</b>	18	18	18	18	18	18

\* Test location not planted in 2006.

\*\* Severe herbicide damage, yield data not used.

Table 7. 2008 Early Rice Variety Tests - Four Location Summary

<i>Advanced Lines and Varieties</i>												
Variety	Grain Type	Ave Grain Yield at 14% Moisture		Single Location Yields				Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre		Biggs	Butte	Yuba	Colusa					
05Y724	M	<b>10310 (1)</b>		11050 (2)	8860 (1)	10600 (6)	10720 (1)	17.6 (7)	4.9 (10)	87 (6)	19 (11)	37 (10)
06Y575	LR	<b>10270 (2)</b>		11270 (1)	8410 (8)	10970 (2)	10430 (2)	15.9 (13)	4.9 (6)	90 (10)	3 (6)	37 (12)
07Y752	LSR	<b>10110 (3)</b>		10920 (5)	8360 (10)	10860 (3)	10280 (3)	16.1 (12)	4.8 (16)	89 (8)	1 (1)	37 (6)
L206	L	<b>10060 (4)</b>		10820 (7)	8700 (2)	11000 (1)	9730 (11)	14.4 (18)	4.9 (11)	86 (5)	2 (4)	35 (3)
M206	M	<b>9970 (5)</b>		10620 (9)	8450 (6)	10720 (4)	10080 (6)	17.1 (8)	4.9 (9)	88 (7)	7 (8)	37 (8)
06Y513	L	<b>9960 (6)</b>		11050 (3)	8580 (3)	10630 (5)	9570 (12)	15.2 (16)	4.9 (6)	90 (9)	1 (1)	37 (9)
M205	M	<b>9900 (7)</b>		10800 (8)	8220 (12)	10500 (7)	10080 (5)	18.6 (1)	4.9 (11)	95 (18)	6 (7)	39 (18)
05Y471	M	<b>9850 (8)</b>		10590 (10)	8450 (7)	10270 (9)	10100 (4)	16.9 (9)	4.9 (15)	83 (2)	9 (9)	35 (4)
M208	M	<b>9790 (9)</b>		10480 (12)	8390 (9)	10490 (8)	9780 (10)	16.8 (10)	5.0 (4)	92 (16)	9 (10)	38 (17)
04Y308	MPQ	<b>9670 (10)</b>		10870 (6)	7690 (15)	10250 (10)	9860 (9)	17.8 (4)	5.0 (2)	91 (13)	21 (12)	38 (13)
S-102	S	<b>9530 (11)</b>		10950 (4)	7470 (16)	9830 (14)	9870 (8)	15.6 (14)	4.9 (6)	82 (1)	45 (17)	35 (1)
M202	M	<b>9460 (12)</b>		10580 (11)	7150 (18)	10140 (12)	9950 (7)	18.1 (2)	5.0 (4)	91 (14)	25 (13)	38 (14)
06Y333	MPQ	<b>9380 (13)</b>		10220 (13)	8520 (4)	9780 (15)	9000 (16)	17.8 (6)	5.0 (1)	91 (15)	26 (14)	38 (15)
06Y599	LR	<b>9310 (14)</b>		9920 (16)	8160 (13)	10190 (11)	8980 (17)	15.2 (15)	4.9 (13)	90 (12)	2 (5)	37 (11)
L205	LR	<b>9240 (15)</b>		9700 (17)	8220 (11)	9890 (13)	9140 (15)	14.9 (17)	4.7 (17)	90 (11)	1 (1)	37 (7)
06Y322	MPQ	<b>9200 (16)</b>		10060 (15)	8130 (14)	9050 (18)	9560 (13)	17.8 (3)	5.0 (2)	92 (17)	27 (15)	38 (16)
CM-101	SWX	<b>9010 (17)</b>		10120 (14)	7390 (17)	9310 (17)	9230 (14)	16.6 (11)	4.9 (14)	83 (3)	42 (16)	35 (2)
04Y177a	SPQ	<b>8860 (18)</b>		9490 (18)	8520 (5)	9410 (16)	8040 (18)	17.8 (5)	4.7 (18)	85 (4)	81 (18)	35 (5)
MEAN		<b>9660</b>		10530	8200	10220	9690	16.7	4.9	89	18	37
CV		<b>5.1</b>		4.4	7.3	4.2	4.9	5.3	2.4	1.2	75.3	2
LSD (.05)		<b>340</b>		660	850	600	670	0.6	0.1	1	9	1
<i>Preliminary Lines and Varieties</i>												
M206	M	<b>9970 (1)</b>		10390 (10)	8990 (2)	10350 (7)	10140 (4)	16.9 (16)	4.9 (11)	86 (9)	21 (29)	36 (13)
08Y084	L	<b>9830 (2)</b>		10880 (1)	7550 (23)	10560 (5)	10340 (1)	15.1 (29)	4.9 (28)	91 (25)	5 (13)	37 (24)
07Y559	L	<b>9780 (3)</b>		9880 (23)	7720 (16)	11220 (1)	10290 (2)	14.7 (33)	4.9 (11)	88 (18)	1 (1)	36 (12)
07Y526	LJ	<b>9770 (4)</b>		10140 (17)	7890 (11)	10970 (2)	10100 (6)	14.9 (30)	4.9 (21)	91 (28)	1 (1)	38 (32)
07Y253	M	<b>9730 (5)</b>		10440 (8)	8370 (5)	10010 (12)	10100 (5)	17.3 (6)	4.9 (26)	88 (19)	9 (20)	37 (27)
06Y696	M	<b>9690 (6)</b>		10820 (2)	7870 (12)	10100 (11)	9990 (7)	17.4 (4)	5.0 (5)	91 (29)	11 (23)	38 (28)
07Y293	SPQ	<b>9620 (7)</b>		10490 (5)	7600 (20)	10690 (4)	9700 (13)	16.9 (11)	4.9 (26)	87 (13)	22 (30)	36 (6)
03Y496	LSR	<b>9610 (8)</b>		10090 (20)	7300 (27)	10770 (3)	10260 (3)	17.5 (3)	4.8 (31)	93 (33)	1 (1)	38 (29)
07Y254	M	<b>9610 (9)</b>		10320 (12)	8010 (9)	10110 (9)	9990 (8)	16.6 (21)	4.9 (11)	87 (15)	25 (33)	37 (17)
07Y227	M	<b>9600 (10)</b>		10770 (3)	8520 (4)	9700 (18)	9430 (22)	16.1 (25)	4.9 (29)	85 (5)	2 (8)	36 (10)
07Y350	S	<b>9560 (11)</b>		9860 (24)	9210 (1)	9680 (19)	9490 (20)	16.1 (26)	4.9 (9)	86 (6)	12 (24)	35 (3)
07Y251	M	<b>9490 (12)</b>		10480 (7)	7990 (10)	9940 (15)	9560 (16)	16.7 (19)	4.9 (21)	86 (11)	14 (26)	37 (20)
07Y182	SPQ	<b>9480 (13)</b>		10050 (22)	8070 (8)	10300 (8)	9500 (19)	17.1 (10)	4.9 (21)	89 (21)	8 (18)	37 (16)
07Y414	M	<b>9480 (14)</b>		10270 (13)	7760 (14)	10100 (10)	9790 (11)	17.5 (2)	5.0 (5)	87 (13)	9 (21)	37 (19)
07Y259	M	<b>9460 (15)</b>		10120 (18)	8740 (3)	9570 (23)	9410 (23)	16.7 (19)	4.9 (18)	86 (7)	18 (28)	36 (13)
07Y296	SPQ	<b>9430 (16)</b>		10380 (11)	7500 (25)	9890 (17)	9950 (9)	16.9 (12)	4.9 (11)	86 (7)	6 (15)	36 (8)
07Y447	M	<b>9360 (17)</b>		10160 (15)	7760 (15)	9970 (13)	9550 (17)	16.4 (23)	4.9 (18)	90 (23)	22 (31)	37 (21)
07Y460	M	<b>9340 (18)</b>		10480 (6)	7670 (18)	9610 (22)	9590 (15)	16.9 (15)	4.8 (31)	87 (17)	17 (27)	37 (21)
07Y436	M	<b>9300 (19)</b>		9840 (26)	8370 (6)	9460 (25)	9540 (18)	16.8 (18)	4.9 (11)	87 (12)	6 (15)	36 (9)
07Y406	M	<b>9250 (20)</b>		10400 (9)	7390 (26)	9490 (24)	9730 (12)	17.3 (8)	4.9 (11)	87 (16)	2 (10)	37 (18)
07Y470	M	<b>9240 (21)</b>		10100 (19)	7580 (21)	9960 (14)	9310 (24)	16.3 (24)	5.0 (5)	89 (22)	11 (22)	38 (30)
07Y489	LA	<b>9110 (22)</b>		10550 (4)	6880 (30)	10380 (6)	8630 (31)	14.9 (31)	4.8 (33)	82 (1)	1 (1)	34 (1)
07Y364	SLA	<b>9090 (23)</b>		10180 (14)	7570 (22)	9450 (26)	9170 (26)	16.9 (13)	4.8 (33)	85 (4)	38 (35)	35 (5)
07Y168	SPQ	<b>9070 (24)</b>		10160 (16)	7680 (17)	9380 (27)	9050 (28)	17.3 (7)	4.9 (18)	82 (2)	6 (14)	34 (2)
07Y320	MPQ	<b>9060 (25)</b>		9850 (25)	8250 (7)	8690 (31)	9440 (21)	17.8 (1)	4.5 (35)	91 (27)	59 (36)	38 (34)
07Y462	M	<b>9040 (26)</b>		9620 (27)	7500 (24)	9230 (29)	9830 (10)	16.8 (17)	5.0 (5)	86 (10)	2 (9)	36 (7)
07Y369	SBG	<b>8980 (27)</b>		10060 (21)	6330 (33)	9930 (16)	9600 (14)	17.1 (9)	4.9 (21)	83 (3)	8 (17)	35 (4)
07Y343	MPQ	<b>8960 (28)</b>		9400 (30)	7640 (19)	9650 (21)	9140 (27)	17.4 (5)	5.0 (3)	92 (30)	8 (18)	38 (31)
06Y629	MPQ	<b>8770 (29)</b>		9450 (29)	7860 (13)	8590 (32)	9180 (25)	16.9 (14)	5.0 (1)	92 (32)	12 (25)	38 (35)
07Y603	LA	<b>8660 (30)</b>		9240 (32)	7130 (28)	9310 (28)	8960 (29)	14.7 (32)	4.9 (29)	91 (25)	1 (1)	37 (26)
CH-201	SPQ	<b>8350 (31)</b>		9520 (28)	6360 (32)	8880 (30)	8640 (30)	15.5 (28)	4.9 (9)	90 (24)	35 (34)	37 (15)
06Y545	LB	<b>8230 (32)</b>		8880 (34)	6270 (34)	9670 (20)	8120 (32)	15.7 (27)	5.0 (2)	93 (35)	3 (11)	37 (23)
07Y599	LJ	<b>7470 (33)</b>		9320 (31)	5130 (36)	7720 (34)	7720 (33)	13.7 (36)	4.9 (11)	92 (31)	3 (11)	37 (25)
CT201	LB	<b>7290 (34)</b>		8120 (35)	6780 (31)	7660 (35)	6610 (34)	14.0 (35)	4.9 (21)	93 (34)	1 (1)	38 (36)
06Y707	LJ	<b>7140 (35)</b>		9050 (33)	5250 (35)	8520 (33)	5740 (35)	16.5 (22)	1.7 (36)	95 (36)	23 (32)	38 (33)
CT202	LB	<b>6740 (36)</b>		7930 (36)	7020 (29)	6250 (36)	5740 (36)	14.2 (34)	5.0 (4)	88 (20)	1 (1)	36 (10)
MEAN		<b>9070</b>		9940	7540	9600	9200	16.3	4.8	88	12	37
CV		<b>5.6</b>		4.4	8.6	5.8	3.6	3.8	4	1.2	118.6	2.1
LSD (.05)		<b>500</b>		890	1310	1140	680	0.6	0.2	1	14	1

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

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. 2008 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)
06Y575	LR	11270 (1)	17.8 (4)	4.8 (10)	90 (8)	1 (1)	35 (8)
05Y724	M	11050 (2)	16.9 (9)	4.8 (9)	87 (6)	30 (14)	34 (6)
06Y513	L	11050 (3)	16.6 (12)	4.8 (10)	92 (11)	1 (1)	36 (11)
S-102	S	10950 (4)	14.4 (18)	4.8 (5)	81 (1)	68 (16)	32 (1)
07Y752	LSR	10920 (5)	17.1 (7)	4.4 (18)	90 (9)	1 (1)	35 (9)
04Y308	MPQ	10870 (6)	18.2 (1)	5.0 (2)	92 (13)	1 (1)	36 (13)
L206	L	10820 (7)	15.7 (17)	4.5 (16)	86 (4)	1 (1)	34 (4)
M205	M	10800 (8)	17.8 (3)	4.7 (13)	97 (18)	1 (1)	38 (18)
M206	M	10620 (9)	17.4 (6)	4.7 (12)	89 (7)	1 (1)	35 (7)
05Y471	M	10590 (10)	16.1 (16)	4.7 (13)	82 (2)	7 (11)	32 (2)
M202	M	10580 (11)	16.7 (10)	4.9 (4)	92 (12)	9 (12)	36 (12)
M208	M	10480 (12)	16.7 (11)	4.8 (6)	93 (14)	3 (10)	36 (14)
06Y333	MPQ	10220 (13)	17.6 (5)	5.0 (1)	93 (15)	13 (13)	37 (15)
CM-101	SWX	10120 (14)	16.5 (13)	4.8 (6)	82 (3)	71 (17)	32 (3)
06Y322	MPQ	10060 (15)	18.0 (2)	4.9 (3)	94 (17)	30 (14)	37 (17)
06Y599	LR	9920 (16)	17.1 (8)	4.6 (15)	93 (16)	1 (1)	37 (16)
L205	LR	9700 (17)	16.5 (14)	4.5 (17)	91 (10)	1 (1)	36 (10)
04Y177a	SPQ	9490 (18)	16.2 (15)	4.8 (6)	87 (5)	90 (18)	34 (5)
MEAN		10530	16.8	4.7	89	18	35
CV		4.4	4.9	2.3	1.1	56.8	1.1
LSD (.05)		660	1.2	0.2	1	15	1

*Preliminary Lines and Varieties*

08Y084	L	10880 (1)	16.6 (15)	4.7 (21)	91 (29)	16 (25)	36 (29)
06Y696	M	10820 (2)	17.3 (6)	4.9 (4)	91 (28)	8 (19)	36 (28)
07Y227	M	10770 (3)	15.3 (33)	4.6 (28)	87 (10)	1 (1)	34 (13)
07Y489	LA	10550 (4)	15.0 (34)	4.6 (27)	83 (3)	1 (1)	33 (3)
07Y293	SPQ	10490 (5)	15.9 (23)	4.9 (4)	87 (10)	50 (33)	34 (10)
07Y460	M	10480 (6)	16.9 (10)	4.6 (28)	88 (14)	20 (27)	34 (14)
07Y251	M	10480 (7)	17.0 (9)	4.7 (23)	88 (14)	1 (1)	34 (14)
07Y253	M	10440 (8)	18.0 (1)	4.8 (14)	88 (16)	8 (19)	35 (17)
07Y406	M	10400 (9)	16.3 (20)	4.8 (9)	89 (20)	6 (15)	35 (20)
M206	M	10390 (10)	17.2 (7)	4.7 (17)	88 (16)	8 (19)	35 (17)
07Y296	SPQ	10380 (11)	15.9 (24)	4.7 (17)	84 (4)	21 (28)	33 (4)
07Y254	M	10320 (12)	16.2 (21)	4.9 (4)	87 (10)	33 (31)	34 (10)
07Y414	M	10270 (13)	17.9 (2)	4.8 (9)	88 (16)	6 (15)	35 (16)
07Y364	SLA	10180 (14)	15.6 (27)	4.7 (23)	84 (4)	65 (36)	33 (4)
07Y447	M	10160 (15)	16.5 (16)	4.6 (28)	90 (23)	6 (15)	35 (23)
07Y168	SPQ	10160 (16)	15.6 (26)	4.6 (28)	80 (1)	21 (28)	32 (1)
07Y526	LJ	10140 (17)	16.1 (22)	4.5 (35)	90 (25)	1 (1)	35 (25)
07Y259	M	10120 (18)	17.8 (4)	4.6 (28)	87 (8)	43 (32)	34 (9)
07Y470	M	10100 (19)	16.5 (16)	4.8 (9)	90 (26)	1 (1)	35 (26)
03Y496	LSR	10090 (20)	16.9 (11)	4.6 (28)	90 (27)	1 (1)	36 (27)
07Y369	SBG	10060 (21)	16.8 (13)	4.8 (14)	82 (2)	16 (25)	32 (2)
07Y182	SPQ	10050 (22)	16.4 (19)	4.6 (34)	88 (16)	1 (1)	35 (17)
07Y559	L	9880 (23)	15.6 (27)	4.7 (17)	87 (8)	1 (1)	34 (8)
07Y350	S	9860 (24)	15.5 (30)	4.8 (14)	85 (7)	8 (19)	34 (7)
07Y320	MPQ	9850 (25)	15.6 (27)	4.7 (23)	92 (30)	55 (35)	36 (30)
07Y436	M	9840 (26)	16.8 (12)	4.7 (17)	87 (10)	23 (30)	34 (10)
07Y462	M	9620 (27)	16.7 (14)	4.8 (9)	84 (4)	1 (1)	33 (4)
CH-201	SPQ	9520 (28)	14.7 (36)	5.0 (1)	90 (23)	50 (33)	35 (23)
06Y629	MPQ	9450 (29)	17.2 (7)	5.0 (1)	93 (33)	6 (15)	37 (33)
07Y343	MPQ	9400 (30)	17.6 (5)	4.9 (4)	93 (32)	1 (1)	36 (32)
07Y599	LJ	9320 (31)	15.3 (32)	4.7 (21)	89 (21)	11 (23)	35 (21)
07Y603	LA	9240 (32)	15.8 (25)	4.7 (23)	92 (31)	1 (1)	36 (31)
06Y707	LJ	9050 (33)	17.8 (3)	2.8 (36)	99 (36)	1 (1)	39 (36)
06Y545	LB	8880 (34)	16.4 (18)	5.0 (3)	94 (34)	11 (23)	37 (34)
CT201	LB	8120 (35)	15.4 (31)	4.8 (9)	94 (34)	1 (1)	37 (34)
CT202	LB	7930 (36)	15.0 (35)	4.8 (8)	89 (21)	1 (1)	35 (21)
MEAN		9940	16.3	4.7	88	14	35
CV		4.4	4.3	2.4	1.3	110.2	1.3
LSD (.05)		890	1.4	0.2	2	31	1

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

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. 2008 Early Rice Variety Test - Butte

*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		
05Y724	M	8860 (1)	15.2 (6)	4.9 (14)	76 (3)	25 (15)	41 (15)
L206	L	8700 (2)	14.1 (16)	5.0 (1)	77 (4)	3 (4)	35 (1)
06Y513	L	8580 (3)	15.2 (5)	5.0 (1)	81 (10)	1 (1)	38 (3)
06Y333	MPQ	8520 (4)	15.0 (8)	5.0 (1)	82 (12)	50 (17)	39 (8)
04Y177a	SPQ	8520 (5)	16.1 (2)	4.2 (18)	77 (6)	50 (18)	38 (4)
M206	M	8450 (6)	14.0 (18)	5.0 (1)	77 (4)	23 (14)	39 (10)
05Y471	M	8450 (7)	14.1 (17)	4.9 (11)	74 (1)	4 (5)	40 (14)
06Y575	LR	8410 (8)	15.0 (9)	5.0 (1)	82 (16)	8 (10)	41 (15)
M208	M	8390 (9)	14.9 (11)	5.0 (1)	81 (10)	16 (12)	41 (18)
07Y752	LSR	8360 (10)	15.8 (4)	5.0 (1)	82 (15)	1 (1)	38 (5)
L205	LR	8220 (11)	14.4 (13)	4.8 (17)	81 (9)	1 (1)	37 (2)
M205	M	8220 (12)	15.9 (3)	4.9 (14)	85 (18)	13 (11)	38 (5)
06Y599	LR	8160 (13)	14.2 (15)	5.0 (1)	82 (12)	7 (7)	39 (7)
06Y322	MPQ	8130 (14)	14.2 (14)	5.0 (1)	82 (12)	7 (7)	39 (10)
04Y308	MPQ	7690 (15)	14.8 (12)	4.9 (11)	81 (8)	38 (16)	39 (12)
S-102	S	7470 (16)	15.2 (7)	4.9 (11)	76 (2)	17 (13)	41 (17)
CM-101	SWX	7390 (17)	16.5 (1)	4.8 (16)	77 (6)	6 (6)	39 (8)
M202	M	7150 (18)	15.0 (10)	5.0 (1)	83 (17)	8 (9)	40 (13)
MEAN		8200	15.0	4.9	80	15	39
CV		7.3	4.1	3.2	0.8	106.9	3.1
LSD (.05)		850	0.9	0.2	1	23	2

*Preliminary Lines and Varieties*

07Y350	S	9210 (1)	13.6 (30)	5.0 (1)	80 (21)	36 (32)	35 (3)
M206	M	8990 (2)	13.4 (34)	5.0 (1)	77 (11)	46 (34)	41 (31)
07Y259	M	8740 (3)	13.5 (31)	5.0 (1)	75 (4)	26 (29)	40 (28)
07Y227	M	8520 (4)	14.2 (24)	4.9 (26)	75 (4)	1 (1)	40 (26)
07Y253	M	8370 (5)	15.0 (9)	4.8 (31)	77 (11)	3 (20)	42 (36)
07Y436	M	8370 (6)	14.2 (23)	5.0 (1)	75 (6)	1 (1)	38 (10)
07Y320	MPQ	8250 (7)	14.4 (19)	4.9 (29)	81 (22)	83 (36)	41 (33)
07Y182	SPQ	8070 (8)	13.8 (29)	5.0 (1)	79 (17)	26 (29)	38 (10)
07Y254	M	8010 (9)	14.4 (18)	5.0 (1)	75 (6)	3 (20)	39 (17)
07Y251	M	7990 (10)	14.0 (25)	4.9 (26)	74 (2)	36 (32)	40 (28)
07Y526	LJ	7890 (11)	15.3 (6)	5.0 (1)	83 (29)	1 (1)	41 (32)
06Y696	M	7870 (12)	14.3 (20)	4.9 (26)	82 (25)	3 (20)	39 (15)
06Y629	MPQ	7860 (13)	13.3 (36)	5.0 (1)	82 (26)	6 (26)	39 (17)
07Y414	M	7760 (14)	15.3 (7)	5.0 (1)	76 (9)	16 (27)	40 (26)
07Y447	M	7760 (15)	13.3 (35)	5.0 (1)	81 (23)	80 (35)	38 (12)
07Y559	L	7720 (16)	14.6 (15)	5.0 (1)	83 (29)	1 (1)	40 (24)
07Y168	SPQ	7680 (17)	14.0 (26)	5.0 (1)	73 (1)	1 (1)	36 (5)
07Y460	M	7670 (18)	14.9 (10)	5.0 (1)	77 (10)	26 (29)	40 (28)
07Y343	MPQ	7640 (19)	14.2 (22)	5.0 (1)	83 (31)	5 (25)	40 (22)
07Y293	SPQ	7600 (20)	15.2 (8)	5.0 (1)	79 (18)	1 (1)	37 (7)
07Y470	M	7580 (21)	14.0 (28)	5.0 (1)	78 (15)	1 (1)	41 (35)
07Y364	SLA	7570 (22)	15.4 (4)	4.9 (29)	79 (18)	21 (28)	40 (24)
08Y084	L	7550 (23)	14.9 (11)	4.8 (31)	84 (32)	1 (1)	39 (13)
07Y462	M	7500 (24)	14.9 (12)	5.0 (1)	81 (23)	3 (20)	39 (16)
07Y296	SPQ	7500 (25)	14.5 (16)	5.0 (1)	78 (13)	1 (1)	39 (17)
07Y406	M	7390 (26)	15.4 (3)	5.0 (1)	76 (8)	1 (1)	39 (17)
03Y496	LSR	7300 (27)	16.7 (1)	5.0 (1)	87 (36)	1 (1)	39 (17)
07Y603	LA	7130 (28)	15.3 (5)	5.0 (1)	82 (26)	1 (1)	39 (13)
CT202	LB	7020 (29)	13.5 (32)	5.0 (1)	78 (15)	1 (1)	36 (4)
07Y489	LA	6880 (30)	14.7 (14)	4.8 (31)	74 (2)	1 (1)	37 (6)
CT201	LB	6780 (31)	13.4 (33)	4.8 (31)	82 (26)	1 (1)	40 (22)
CH-201	SPQ	6360 (32)	14.0 (27)	4.8 (31)	84 (33)	3 (20)	37 (8)
07Y369	SBG	6330 (33)	16.5 (2)	5.0 (1)	78 (13)	1 (1)	41 (34)
06Y545	LB	6270 (34)	14.3 (21)	5.0 (1)	86 (35)	1 (1)	35 (2)
06Y707	LJ	5250 (35)	14.9 (13)	1.5 (36)	79 (18)	1 (1)	34 (1)
07Y599	LJ	5130 (36)	14.5 (17)	5.0 (1)	85 (34)	1 (1)	37 (8)
MEAN		7540	14.5	4.9	79	12	39
CV		8.6	4.4	2.7	1.1	145.9	3.5
LSD (.05)		1310	1.3	0.3	2	36	3

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

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. 2008 Early Rice Variety Test - Yuba

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
L206	L	11000 (1)	13.9 (18)	5.0 (1)	88 (3)	2 (6)	35 (3)
06Y575	LR	10970 (2)	15.7 (14)	5.0 (1)	93 (10)	1 (1)	37 (10)
07Y752	LSR	10860 (3)	15.8 (13)	5.0 (1)	92 (7)	1 (1)	36 (7)
M206	M	10720 (4)	19.1 (9)	5.0 (1)	93 (8)	4 (7)	37 (8)
06Y513	L	10630 (5)	14.5 (17)	5.0 (1)	91 (6)	1 (1)	36 (6)
05Y724	M	10600 (6)	20.2 (5)	5.0 (1)	93 (10)	21 (10)	37 (10)
M205	M	10500 (7)	20.4 (3)	5.0 (1)	99 (18)	8 (8)	39 (18)
M208	M	10490 (8)	18.0 (10)	5.0 (1)	96 (16)	17 (9)	38 (16)
05Y471	M	10270 (9)	19.3 (6)	4.9 (16)	88 (3)	23 (11)	35 (3)
04Y308	MPQ	10250 (10)	19.2 (7)	5.0 (1)	95 (14)	43 (13)	37 (14)
06Y599	LR	10190 (11)	15.2 (15)	5.0 (15)	93 (8)	1 (1)	37 (8)
M202	M	10140 (12)	21.6 (1)	5.0 (1)	94 (12)	82 (16)	37 (12)
L205	LR	9890 (13)	14.6 (16)	5.0 (1)	94 (12)	1 (1)	37 (12)
S-102	S	9830 (14)	17.6 (11)	5.0 (1)	84 (1)	92 (17)	33 (1)
06Y333	MPQ	9780 (15)	19.1 (8)	5.0 (1)	96 (16)	38 (12)	38 (16)
04Y177a	SPQ	9410 (16)	20.5 (2)	4.9 (16)	89 (5)	98 (18)	35 (5)
CM-101	SWX	9310 (17)	17.1 (12)	4.9 (16)	85 (2)	75 (15)	34 (2)
06Y322	MPQ	9050 (18)	20.3 (4)	5.0 (1)	96 (15)	69 (14)	38 (15)
MEAN		10220	17.9	5.0	92	32	36
CV		4.2	7.2	2.1	1.4	55.8	1.4
LSD (.05)		600	1.8		2	25	1
<i>Preliminary Lines and Varieties</i>							
07Y559	L	11220 (1)	14.5 (31)	5.0 (1)	90 (7)	1 (1)	35 (7)
07Y526	LJ	10970 (2)	12.9 (35)	5.0 (1)	94 (28)	1 (1)	37 (28)
03Y496	LSR	10770 (3)	19.6 (4)	5.0 (1)	95 (30)	1 (1)	37 (30)
07Y293	SPQ	10690 (4)	18.0 (24)	5.0 (1)	90 (7)	35 (29)	35 (7)
08Y084	L	10560 (5)	14.8 (30)	5.0 (1)	94 (24)	1 (1)	37 (24)
07Y489	LA	10380 (6)	15.1 (29)	5.0 (1)	83 (1)	1 (1)	33 (1)
M206	M	10350 (7)	19.5 (5)	5.0 (1)	93 (16)	28 (27)	37 (16)
07Y182	SPQ	10300 (8)	19.6 (3)	5.0 (1)	92 (14)	5 (20)	36 (14)
07Y254	M	10110 (9)	18.3 (20)	5.0 (1)	94 (24)	65 (33)	37 (24)
07Y414	M	10100 (10)	18.6 (15)	5.0 (1)	92 (12)	16 (22)	36 (12)
06Y696	M	10100 (11)	19.1 (9)	5.0 (1)	97 (34)	33 (28)	38 (34)
07Y253	M	10010 (12)	18.4 (19)	5.0 (1)	93 (16)	23 (24)	37 (16)
07Y447	M	9970 (13)	18.1 (23)	5.0 (1)	93 (15)	3 (15)	36 (15)
07Y470	M	9960 (14)	18.1 (22)	5.0 (1)	94 (24)	40 (32)	37 (24)
07Y251	M	9940 (15)	18.8 (14)	5.0 (1)	93 (16)	18 (23)	37 (16)
07Y369	SBG	9930 (16)	18.5 (16)	4.8 (35)	85 (2)	13 (21)	34 (2)
07Y296	SPQ	9890 (17)	19.0 (10)	5.0 (1)	90 (7)	3 (15)	35 (7)
07Y227	M	9700 (18)	18.2 (21)	5.0 (1)	90 (7)	3 (15)	35 (7)
07Y350	S	9680 (19)	18.4 (18)	5.0 (1)	89 (5)	3 (15)	35 (5)
06Y545	LB	9670 (20)	16.7 (27)	5.0 (1)	97 (34)	1 (1)	38 (34)
07Y343	MPQ	9650 (21)	19.3 (6)	5.0 (1)	94 (28)	26 (26)	37 (28)
07Y460	M	9610 (22)	17.9 (25)	5.0 (1)	93 (16)	23 (24)	37 (16)
07Y259	M	9570 (23)	18.9 (13)	5.0 (1)	91 (11)	1 (1)	36 (11)
07Y406	M	9490 (24)	19.2 (8)	5.0 (1)	93 (16)	1 (1)	37 (16)
07Y436	M	9460 (25)	18.5 (17)	5.0 (1)	93 (16)	1 (1)	37 (16)
07Y364	SLA	9450 (26)	19.2 (7)	4.9 (33)	85 (2)	35 (29)	34 (2)
07Y168	SPQ	9380 (27)	21.1 (2)	5.0 (1)	89 (4)	1 (1)	35 (4)
07Y603	LA	9310 (28)	13.8 (34)	5.0 (1)	94 (24)	1 (1)	37 (24)
07Y462	M	9230 (29)	19.0 (11)	5.0 (1)	89 (5)	3 (15)	35 (5)
CH-201	SPQ	8880 (30)	17.2 (26)	5.0 (1)	93 (16)	88 (34)	37 (16)
07Y320	MPQ	8690 (31)	22.4 (1)	4.9 (33)	96 (31)	97 (36)	38 (31)
06Y629	MPQ	8590 (32)	18.9 (12)	5.0 (1)	97 (33)	38 (31)	38 (33)
06Y707	LJ	8520 (33)	15.9 (28)	2.0 (36)	100 (36)	88 (34)	39 (36)
07Y599	LJ	7720 (34)	12.4 (36)	5.0 (1)	93 (16)	1 (1)	37 (16)
CT201	LB	7660 (35)	14.1 (33)	5.0 (1)	96 (32)	1 (1)	38 (32)
CT202	LB	6250 (36)	14.3 (32)	5.0 (1)	92 (12)	1 (1)	36 (12)
MEAN		9600	17.7	4.9	92	19	36
CV		5.8	3.4	2.5	0.6	79.3	0.6
LSD (.05)		1140	1.2	0.2	1	31	0

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

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. 2008 Early Rice Variety Test - Colusa

<i>Advanced Lines and Varieties</i>							
Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
05Y724	M	10720 (1)	18.1 (8)	5.0 (1)	92 (6)	1 (1)	36 (6)
06Y575	LR	10430 (2)	15.0 (14)	5.0 (1)	94 (8)	1 (1)	37 (8)
07Y752	LSR	10280 (3)	15.7 (12)	4.8 (17)	94 (10)	1 (1)	37 (10)
05Y471	M	10100 (4)	18.2 (7)	5.0 (14)	87 (3)	1 (1)	34 (3)
M205	M	10080 (5)	20.4 (1)	5.0 (1)	102 (18)	1 (1)	40 (18)
M206	M	10080 (6)	18.0 (9)	5.0 (1)	93 (7)	1 (1)	36 (7)
M202	M	9950 (7)	19.0 (4)	5.0 (14)	96 (14)	1 (1)	38 (14)
S-102	S	9870 (8)	15.3 (13)	5.0 (1)	86 (1)	3 (16)	34 (1)
04Y308	MPQ	9860 (9)	19.2 (3)	5.0 (1)	96 (15)	1 (1)	38 (15)
M208	M	9780 (10)	17.7 (10)	5.0 (1)	97 (16)	1 (1)	38 (16)
L206	L	9730 (11)	13.8 (18)	5.0 (1)	92 (5)	1 (1)	36 (5)
06Y513	L	9570 (12)	14.5 (15)	5.0 (1)	95 (12)	1 (1)	37 (12)
06Y322	MPQ	9560 (13)	18.8 (5)	5.0 (1)	98 (17)	1 (1)	39 (17)
CM-101	SWX	9230 (14)	16.1 (11)	5.0 (14)	88 (4)	18 (17)	35 (4)
L205	LR	9140 (15)	14.0 (17)	4.8 (18)	94 (10)	1 (1)	37 (10)
06Y333	MPQ	9000 (16)	19.2 (2)	5.0 (1)	95 (13)	1 (1)	38 (13)
06Y599	LR	8980 (17)	14.4 (16)	5.0 (1)	94 (8)	1 (1)	37 (8)
04Y177a	SPQ	8040 (18)	18.4 (6)	5.0 (1)	87 (2)	86 (18)	34 (2)
MEAN		9690	17.0	5.0	93	7	37
CV		4.9	3.8	2	1.3	102	1.3
LSD (.05)		670	0.9	0.1	2	10	1
<i>Preliminary Lines and Varieties</i>							
08Y084	L	10340 (1)	14.0 (32)	5.0 (1)	95 (22)	1 (1)	37 (22)
07Y559	L	10290 (2)	14.0 (33)	5.0 (1)	91 (8)	1 (1)	36 (8)
03Y496	LSR	10260 (3)	16.9 (19)	4.8 (31)	98 (32)	1 (1)	39 (32)
M206	M	10140 (4)	17.4 (17)	5.0 (1)	87 (1)	1 (1)	34 (1)
07Y253	M	10100 (5)	18.1 (11)	5.0 (1)	93 (19)	1 (1)	37 (19)
07Y526	LJ	10100 (6)	15.4 (28)	5.0 (1)	98 (31)	1 (1)	38 (31)
06Y696	M	9990 (7)	19.0 (1)	5.0 (1)	96 (26)	1 (1)	38 (26)
07Y254	M	9990 (8)	17.5 (15)	4.8 (30)	92 (17)	1 (1)	36 (17)
07Y296	SPQ	9950 (9)	18.3 (9)	5.0 (1)	91 (8)	1 (1)	36 (8)
07Y462	M	9830 (10)	16.7 (25)	5.0 (1)	91 (8)	1 (1)	36 (8)
07Y414	M	9790 (11)	18.3 (8)	5.0 (1)	92 (15)	1 (1)	36 (15)
07Y406	M	9730 (12)	18.4 (7)	4.9 (26)	92 (15)	1 (1)	36 (15)
07Y293	SPQ	9700 (13)	18.5 (6)	4.6 (34)	91 (8)	1 (1)	36 (8)
07Y369	SBG	9600 (14)	16.9 (21)	5.0 (1)	88 (3)	1 (1)	35 (5)
07Y460	M	9590 (15)	17.7 (13)	4.8 (31)	92 (17)	1 (1)	36 (17)
07Y251	M	9560 (16)	16.9 (20)	5.0 (1)	91 (8)	1 (1)	36 (8)
07Y447	M	9550 (17)	17.8 (12)	5.0 (1)	96 (23)	1 (1)	38 (23)
07Y436	M	9540 (18)	17.7 (14)	5.0 (1)	91 (8)	1 (1)	36 (8)
07Y182	SPQ	9500 (19)	18.7 (3)	5.0 (1)	97 (28)	1 (1)	38 (28)
07Y350	S	9490 (20)	16.8 (22)	5.0 (1)	88 (3)	1 (1)	35 (5)
07Y320	MPQ	9440 (21)	18.9 (2)	3.8 (35)	96 (26)	1 (1)	38 (26)
07Y227	M	9430 (22)	16.8 (23)	4.9 (26)	88 (3)	1 (1)	35 (3)
07Y259	M	9410 (23)	16.5 (26)	5.0 (1)	91 (8)	1 (1)	36 (8)
07Y470	M	9310 (24)	16.7 (24)	5.0 (1)	96 (23)	1 (1)	38 (23)
06Y629	MPQ	9180 (25)	18.2 (10)	5.0 (1)	98 (32)	1 (1)	39 (32)
07Y364	SLA	9170 (26)	17.4 (16)	4.9 (26)	90 (7)	30 (36)	35 (7)
07Y343	MPQ	9140 (27)	18.7 (4)	5.0 (1)	97 (30)	1 (1)	38 (30)
07Y168	SPQ	9050 (28)	18.6 (5)	5.0 (1)	87 (2)	1 (1)	34 (2)
07Y603	LA	8960 (29)	13.9 (34)	4.8 (31)	96 (23)	1 (1)	38 (23)
CH-201	SPQ	8640 (30)	16.0 (27)	5.0 (1)	94 (20)	1 (1)	37 (20)
07Y489	LA	8630 (31)	14.7 (30)	4.9 (26)	88 (3)	1 (1)	35 (3)
06Y545	LB	8120 (32)	15.3 (29)	5.0 (1)	97 (28)	1 (1)	38 (28)
07Y599	LJ	7720 (33)	12.7 (36)	5.0 (1)	101 (35)	1 (1)	40 (35)
CT201	LB	6610 (34)	13.2 (35)	5.0 (1)	100 (34)	1 (1)	39 (34)
06Y707	LJ	5740 (35)	17.3 (18)	0.5 (36)	101 (35)	1 (1)	40 (35)
CT202	LB	5740 (36)	14.3 (31)	5.0 (1)	95 (21)	1 (1)	37 (21)
MEAN		9200	16.8	4.8	93	2	37
CV		3.6	3.4	6.8	1.4		1.4
LSD (.05)		680	1.2	0.7	3		1

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

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 (2004-2008)

Location	Year	Calhikari				Calmati		
		201	<b>M-202</b>	S-102	M-205	M-206	201	L-205
Biggs (RES)	2004	8120	<b>9500</b>	9260	10270	9650	8500	9810
	2005	7740	<b>7350</b>	7950	7980	7890	6900	8760
	2006	8650	<b>9000</b>	9740	9250	9560	7480	9280
	2007	6230	<b>6940</b>	8730	8920	9430	6960	8420
	2008	9520	<b>10580</b>	10950	10800	10620	8120	9700
Location Mean		8052	<b>8674</b>	9326	9444	9430	7592	9194
Butte	2004	8200	<b>8990</b>	9050	9490	8800	7380	8060
	2005	7100	<b>8990</b>	7520	9740	7010	6550	8620
	2006	6930	<b>7970</b>	8430	8820	8080	7230	8090
Glenn	2007	7430	<b>7640</b>	8580	8310	8060	7640	8940
Glenn	2008	6360	<b>7150</b>	7470	8220	8450	6780	8220
Location Mean		9005	<b>8148</b>	8210	8916	8080	7116	8386
Colusa	2004	9570	<b>10330</b>	10280	10750	10200	8440	10450
	2005	7580	<b>8030</b>	6970	9330	8160	7330	8570
	2006	8530	<b>9970</b>	9060	10720	9300	7590	8660
	2007	8270	<b>9030</b>	9040	9630	9960	7190	8770
	2008	8640	<b>9950</b>	9870	10080	10080	6610	9140
Location Mean		8518	<b>9462</b>	9044	10102	9540	7432	9118
Yuba	2004	8240	<b>9850</b>	9260	9120	9960	6720	8510
	2005	7470	<b>7100</b>	7630	8150	7670	7110	7490
	2006	-	-	-	-	-	-	-
	2007	5910	<b>7040</b>	6170	7480	7960	5550	6370
	2008	8880	<b>10140</b>	9830	10500	10720	7660	9890
Location Mean		7625	<b>8533</b>	8223	8813	9078	6760	8065
Loc/Years Mean		7862	<b>8713</b>	8726	9345	9029	7249	8724
<b>Yield % M-202</b>		<b>90.2</b>	<b>100</b>	<b>100.1</b>	<b>107.3</b>	<b>103.6</b>	<b>83.2</b>	<b>100.1</b>
Number of Tests		19	<b>19</b>	19	19	19	19	19

Table 13. 2008 Intermediate/Late Rice Variety Tests - Three Location Summary

*Advanced Lines and Varieties*

Variety	Grain Type	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	Glenn	Sutter					
05Y343	SWX	<b>9870 (1)</b>	11140 (2)	9110 (2)	9360 (2)	17.0 (7)	4.9 (6)	89 (2)	43 (13)	35 (2)
07Y576	L	<b>9700 (2)</b>	11530 (1)	9110 (1)	8460 (8)	14.6 (13)	4.8 (10)	90 (3)	1 (1)	35 (3)
7Y301	SPQ	<b>9420 (3)</b>	11100 (3)	8230 (11)	8940 (5)	17.7 (3)	4.9 (5)	96 (9)	3 (9)	38 (9)
M205	M	<b>9270 (4)</b>	10950 (5)	8440 (7)	8430 (9)	17.3 (4)	4.9 (8)	98 (11)	1 (1)	39 (11)
08Y124	L	<b>9240 (5)</b>	11040 (4)	8800 (4)	7870 (10)	15.4 (10)	4.9 (9)	96 (8)	1 (1)	38 (8)
05Y346	MBG	<b>9140 (6)</b>	10380 (7)	8370 (8)	8660 (7)	17.0 (8)	5.0 (2)	90 (4)	26 (10)	36 (4)
M202	M	<b>9130 (7)</b>	10310 (8)	8300 (10)	8780 (6)	17.1 (5)	5.0 (3)	92 (5)	40 (12)	36 (5)
L206	L	<b>9090 (8)</b>	10740 (6)	8710 (5)	7830 (11)	14.9 (11)	4.8 (11)	86 (1)	33 (11)	34 (1)
05Y698	M	<b>9070 (9)</b>	9930 (9)	8300 (9)	8990 (4)	17.0 (6)	4.9 (6)	96 (10)	1 (1)	38 (10)
L205	LR	<b>8820 (10)</b>	9890 (11)	8820 (3)	7760 (12)	14.9 (12)	4.7 (12)	94 (6)	1 (1)	37 (6)
04Y706	L	<b>8560 (11)</b>	9910 (10)	8690 (6)	7090 (13)	15.7 (9)	4.6 (13)	94 (7)	1 (1)	37 (7)
M-402	MPQ	<b>8550 (12)</b>	9220 (12)	7240 (12)	9180 (3)	18.5 (2)	5.0 (1)	108 (13)	1 (7)	42 (13)
06Y620	SPQla	<b>8520 (13)</b>	9110 (13)	6730 (13)	9720 (1)	18.9 (1)	4.9 (4)	99 (12)	1 (8)	39 (12)
MEAN		<b>9110</b>	10400	8370	8540	16.6	4.9	94	12	37
CV		<b>6.8</b>	6.4	4.8	8.6	5.6	3.2	1.2	108	1.2
LSD (.05)		<b>500</b>	950	580	1060	0.7	0.1	1	10	0

*Preliminary Lines and Varieties*

07Y671	SPQ	<b>9870 (1)</b>	10690 (5)	10520 (1)	8420 (10)	17.7 (4)	4.6 (18)	90 (2)	10 (18)	35 (2)
07Y467	M	<b>9530 (2)</b>	9760 (15)	9400 (3)	9440 (2)	18.4 (2)	5.0 (4)	97 (16)	2 (12)	38 (16)
07Y700	M	<b>9400 (3)</b>	10880 (2)	8580 (8)	8730 (7)	17.5 (8)	4.9 (10)	94 (7)	1 (1)	37 (7)
07Y696	M	<b>9350 (4)</b>	10080 (9)	8290 (12)	9670 (1)	16.8 (14)	4.9 (12)	96 (11)	2 (12)	38 (11)
07Y711	M	<b>9270 (5)</b>	9840 (13)	8810 (5)	9140 (3)	17.2 (10)	4.9 (7)	93 (6)	27 (21)	37 (6)
07Y151	LIM	<b>9160 (6)</b>	11060 (1)	8100 (13)	8310 (12)	14.8 (22)	4.9 (7)	93 (5)	1 (1)	36 (5)
07Y698	M	<b>9160 (7)</b>	10390 (6)	8600 (6)	8490 (8)	17.6 (6)	4.9 (7)	98 (19)	1 (1)	39 (19)
M205	M	<b>9140 (8)</b>	10380 (7)	8810 (4)	8220 (14)	17.6 (5)	4.9 (10)	97 (16)	5 (17)	38 (16)
07Y712	M	<b>9120 (9)</b>	9970 (10)	8370 (11)	9030 (4)	17.3 (9)	4.9 (13)	96 (12)	13 (19)	38 (12)
07Y726	M	<b>9060 (10)</b>	10190 (8)	8500 (9)	8480 (9)	18.2 (3)	4.8 (15)	96 (13)	1 (1)	38 (13)
07Y666	SPQ	<b>8910 (11)</b>	10710 (4)	9820 (2)	6210 (20)	16.8 (12)	4.0 (21)	95 (9)	17 (20)	37 (10)
07Y646	MPQ	<b>8910 (12)</b>	9920 (11)	7920 (15)	8880 (6)	17.5 (7)	4.8 (14)	97 (15)	4 (16)	38 (15)
07Y218	SWX	<b>8900 (13)</b>	10820 (3)	8580 (7)	7310 (17)	15.4 (18)	4.3 (20)	86 (1)	3 (15)	34 (1)
07Y729	M	<b>8800 (14)</b>	9860 (12)	8400 (10)	8140 (15)	16.7 (15)	4.8 (15)	95 (8)	1 (1)	37 (8)
07Y694	M	<b>8690 (15)</b>	9790 (14)	7960 (14)	8320 (11)	16.8 (13)	5.0 (4)	96 (13)	1 (1)	38 (13)
CH-201	SPQ	<b>8010 (16)</b>	8770 (17)	6250 (18)	9010 (5)	15.8 (17)	5.0 (1)	90 (3)	78 (22)	35 (3)
08Y140	LIM	<b>7770 (17)</b>	8360 (19)	6650 (16)	8300 (13)	16.1 (16)	5.0 (4)	100 (21)	1 (1)	39 (21)
CT201	LB	<b>7440 (18)</b>	8400 (18)	6430 (17)	7490 (16)	15.0 (21)	5.0 (2)	98 (18)	1 (1)	39 (18)
CT202	LB	<b>7100 (19)</b>	8900 (16)	6110 (19)	6300 (18)	15.1 (20)	5.0 (3)	91 (4)	2 (12)	36 (4)
07Y154	LB	<b>6690 (20)</b>	7920 (20)	5940 (21)	6220 (19)	15.3 (19)	4.8 (17)	95 (9)	1 (1)	37 (9)
08Y138	LB	<b>5560 (21)</b>	6540 (21)	5980 (20)	4170 (22)	16.9 (11)	4.5 (19)	99 (20)	1 (1)	39 (20)
07Y152	LB	<b>3910 (22)</b>	4430 (22)	2960 (22)	4340 (21)	24.1 (1)	3.7 (22)	106 (22)	1 (1)	42 (22)
MEAN		<b>8350</b>	9440	7770	7850	17	4.7	95	8	38
CV		<b>7.9</b>	8.4	4.8	9.4	4.9	4.7	1.2	137.9	1.3
LSD (.05)		<b>760</b>	1640	770	1530	1	0.3	1	12	1

S = short; M = medium; BG = bold grain; L = long; PQ = premium quality; la = low amalose; 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 14. 2008 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)
07Y576	L	11530 (1)	14.7 (13)	5.0 (2)	85 (2)	1 (1)	33 (2)
05Y343	SWX	11140 (2)	15.7 (11)	4.8 (8)	89 (3)	35 (12)	35 (3)
7Y301	SPQ	11100 (3)	16.9 (4)	4.9 (5)	96 (9)	1 (1)	38 (9)
08Y124	L	11040 (4)	15.8 (10)	4.9 (6)	92 (6)	1 (1)	36 (6)
M205	M	10950 (5)	16.4 (7)	4.7 (12)	97 (11)	1 (1)	38 (11)
L206	L	10740 (6)	15.6 (12)	4.8 (11)	83 (1)	6 (10)	33 (1)
05Y346	MBG	10380 (7)	17.0 (3)	5.0 (2)	92 (6)	16 (11)	36 (6)
M202	M	10310 (8)	16.8 (5)	4.9 (4)	93 (8)	36 (13)	36 (8)
05Y698	M	9930 (9)	16.6 (6)	4.8 (8)	97 (10)	1 (1)	38 (10)
04Y706	L	9910 (10)	16.4 (7)	4.8 (10)	91 (5)	1 (1)	36 (5)
L205	LR	9890 (11)	16.2 (9)	4.7 (12)	91 (4)	1 (1)	36 (4)
M-402	MPQ	9220 (12)	17.5 (2)	5.0 (1)	108 (13)	1 (1)	43 (13)
06Y620	SPQla	9110 (13)	18.0 (1)	4.9 (6)	100 (12)	1 (1)	39 (12)
MEAN		10400	16.4	4.8	93	8	37
CV		6.4	8.7	1.5	1.5	200.8	1.5
LSD (.05)		950		0.1	2	22	1

*Preliminary Lines and Varieties*

07Y151	LIM	11060 (1)	15.6 (19)	4.9 (5)	92 (6)	1 (1)	36 (6)
07Y700	M	10880 (2)	17.3 (7)	4.8 (11)	94 (8)	1 (1)	37 (8)
07Y218	SWX	10820 (3)	14.8 (22)	4.4 (21)	85 (2)	1 (1)	33 (2)
07Y666	SPQ	10710 (4)	16.2 (17)	4.6 (19)	96 (11)	1 (1)	38 (11)
07Y671	SPQ	10690 (5)	16.5 (14)	4.6 (20)	84 (1)	26 (21)	33 (1)
07Y698	M	10390 (6)	16.9 (10)	4.8 (12)	99 (20)	1 (1)	39 (20)
M205	M	10380 (7)	17.6 (6)	4.7 (14)	97 (14)	1 (1)	38 (14)
07Y726	M	10190 (8)	18.1 (3)	4.9 (5)	98 (17)	1 (1)	38 (17)
07Y696	M	10080 (9)	17.3 (8)	4.7 (14)	98 (19)	1 (1)	39 (19)
07Y712	M	9970 (10)	16.9 (11)	4.7 (14)	96 (11)	1 (1)	38 (11)
07Y646	MPQ	9920 (11)	17.7 (4)	4.7 (14)	97 (16)	1 (1)	38 (16)
07Y729	M	9860 (12)	16.6 (13)	4.7 (14)	96 (10)	1 (1)	38 (10)
07Y711	M	9840 (13)	16.5 (14)	4.8 (12)	91 (4)	1 (1)	36 (4)
07Y694	M	9790 (14)	17.3 (8)	4.9 (5)	98 (17)	1 (1)	38 (17)
07Y467	M	9760 (15)	18.5 (2)	4.9 (5)	99 (20)	1 (1)	39 (20)
CT202	LB	8900 (16)	16.2 (17)	5.0 (2)	90 (3)	1 (1)	35 (3)
CH-201	SPQ	8770 (17)	15.4 (21)	5.0 (1)	91 (4)	70 (22)	36 (4)
CT201	LB	8400 (18)	15.6 (19)	4.9 (3)	94 (9)	1 (1)	37 (9)
08Y140	LIM	8360 (19)	16.7 (12)	4.9 (5)	97 (15)	1 (1)	38 (15)
07Y154	LB	7920 (20)	16.3 (16)	4.9 (4)	93 (7)	1 (1)	36 (7)
08Y138	LB	6540 (21)	17.7 (5)	4.9 (5)	96 (13)	1 (1)	38 (13)
07Y152	LB	4430 (22)	24.5 (1)	4.3 (22)	113 (22)	1 (1)	45 (22)
MEAN		9440	17.1	4.8	95	5	37
CV		8.4	5.5	2.7	1.4	154.5	1.4
LSD (.05)		1640	1.9	0.3	3	17	1

S = short; M = medium; BG = bold grain; L = long; PQ = premium quality; la = low amalose; 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 15. 2008 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)
07Y576	L	9110 (1)	13.7 (12)	5.0 (1)	93 (5)	1 (1)	37 (5)
05Y343	SWX	9110 (2)	17.4 (3)	5.0 (10)	92 (3)	85 (11)	36 (3)
L205	LR	8820 (3)	13.1 (13)	4.6 (13)	96 (7)	1 (1)	38 (7)
08Y124	L	8800 (4)	14.7 (9)	5.0 (1)	100 (10)	1 (1)	39 (10)
L206	L	8710 (5)	13.9 (11)	5.0 (1)	87 (1)	92 (13)	34 (1)
04Y706	L	8690 (6)	14.1 (10)	5.0 (1)	95 (6)	1 (1)	38 (6)
M205	M	8440 (7)	17.1 (4)	4.9 (12)	101 (11)	1 (1)	40 (11)
05Y346	MBG	8370 (8)	16.8 (6)	5.0 (1)	92 (3)	60 (10)	36 (3)
05Y698	M	8300 (9)	16.5 (7)	5.0 (1)	97 (8)	1 (1)	38 (8)
M202	M	8300 (10)	16.8 (5)	5.0 (1)	91 (2)	85 (11)	36 (2)
7Y301	SPQ	8230 (11)	16.4 (8)	5.0 (10)	98 (9)	6 (9)	39 (9)
M-402	MPQ	7240 (12)	17.8 (2)	5.0 (1)	110 (13)	1 (1)	43 (13)
06Y620	SPQla	6730 (13)	18.6 (1)	5.0 (1)	102 (12)	1 (1)	40 (12)
MEAN		8370	15.9	5.0	96	26	38
CV		4.8	2.8	1.3	1.2	57.8	1.2
LSD (.05)		580	0.6	0.1	2	21	1

*Preliminary 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	SPQ	10520 (1)	19.0 (2)	4.7 (22)	94 (5)	3 (13)	37 (5)
07Y666	SPQ	9820 (2)	16.2 (13)	4.8 (20)	95 (9)	46 (20)	37 (9)
07Y467	M	9400 (3)	16.8 (6)	5.0 (1)	97 (13)	3 (13)	38 (13)
M205	M	8810 (4)	17.1 (5)	5.0 (1)	99 (18)	13 (18)	39 (18)
07Y711	M	8810 (5)	16.5 (10)	5.0 (1)	95 (7)	75 (21)	37 (7)
07Y698	M	8600 (6)	16.6 (7)	5.0 (1)	96 (11)	1 (1)	38 (11)
07Y218	SWX	8580 (7)	15.3 (15)	4.7 (21)	90 (1)	6 (16)	35 (1)
07Y700	M	8580 (8)	16.5 (9)	5.0 (1)	95 (7)	1 (1)	37 (7)
07Y726	M	8500 (9)	17.6 (3)	5.0 (1)	97 (13)	1 (1)	38 (13)
07Y729	M	8400 (10)	16.3 (11)	5.0 (1)	94 (5)	1 (1)	37 (5)
07Y712	M	8370 (11)	16.6 (8)	4.9 (19)	98 (16)	28 (19)	38 (16)
07Y696	M	8290 (12)	16.3 (12)	5.0 (1)	95 (9)	1 (1)	37 (9)
07Y151	LIM	8100 (13)	13.4 (21)	5.0 (1)	92 (4)	1 (1)	36 (4)
07Y694	M	7960 (14)	16.1 (14)	5.0 (1)	97 (13)	1 (1)	38 (13)
07Y646	MPQ	7920 (15)	17.6 (4)	5.0 (1)	98 (17)	8 (17)	39 (17)
08Y140	LIM	6650 (16)	14.7 (16)	5.0 (1)	103 (21)	1 (1)	40 (21)
CT201	LB	6430 (17)	13.4 (20)	5.0 (1)	100 (20)	1 (1)	39 (20)
CH-201	SPQ	6250 (18)	14.5 (17)	5.0 (1)	91 (3)	99 (22)	36 (3)
CT202	LB	6110 (19)	13.2 (22)	5.0 (1)	90 (2)	3 (13)	35 (2)
08Y138	LB	5980 (20)	14.5 (18)	5.0 (1)	99 (19)	1 (1)	39 (19)
07Y154	LB	5940 (21)	14.0 (19)	5.0 (1)	97 (12)	1 (1)	38 (12)
07Y152	LB	2960 (22)	26.1 (1)	5.0 (1)	108 (22)	1 (1)	43 (22)
MEAN		7770	16.3	5.0	96	13	38
CV		4.8	3.3	2	1.2	123	1.2
LSD (.05)		770	1.1	0.2	2	34	1

S = short; M = medium; BG = bold grain; L = long; PQ = premium quality; la = low amalose; 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 16. 2008 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)
06Y620	SPQla	9720 (1)	20.1 (2)	5.0 (6)	94 (7)	2 (11)	37 (7)
05Y343	SWX	9360 (2)	17.9 (6)	5.0 (2)	87 (2)	8 (13)	34 (2)
M-402	MPQ	9180 (3)	20.3 (1)	5.0 (1)	105 (13)	1 (10)	41 (13)
05Y698	M	8990 (4)	18.0 (5)	5.0 (7)	96 (10)	1 (1)	38 (10)
7Y301	SPQ	8940 (5)	19.9 (3)	5.0 (2)	94 (5)	1 (1)	37 (5)
M202	M	8780 (6)	17.6 (7)	5.0 (2)	94 (6)	1 (1)	37 (6)
05Y346	MBG	8660 (7)	17.2 (8)	5.0 (2)	87 (1)	2 (12)	34 (1)
07Y576	L	8460 (8)	15.4 (12)	4.5 (12)	91 (4)	1 (1)	36 (4)
M205	M	8430 (9)	18.3 (4)	5.0 (7)	96 (12)	1 (1)	38 (12)
08Y124	L	7870 (10)	15.9 (10)	4.7 (9)	96 (10)	1 (1)	38 (10)
L206	L	7830 (11)	15.4 (13)	4.6 (11)	89 (3)	1 (1)	35 (3)
L205	LR	7760 (12)	15.4 (11)	4.7 (10)	95 (8)	1 (1)	37 (8)
04Y706	L	7090 (13)	16.4 (9)	4.2 (13)	95 (9)	1 (1)	37 (9)
MEAN		8540	17.5	4.8	94	2	37
CV		8.6	3.4	5.2	0.9	241.7	0.9
LSD (.05)		1060	0.8	0.4	1		0

*Preliminary Lines and Varieties*

07Y696	M	9670 (1)	16.8 (17)	4.9 (10)	95 (9)	3 (17)	37 (9)
07Y467	M	9440 (2)	19.9 (2)	5.0 (1)	95 (9)	1 (1)	37 (9)
07Y711	M	9140 (3)	18.7 (5)	5.0 (1)	94 (4)	6 (20)	37 (4)
07Y712	M	9030 (4)	18.4 (7)	5.0 (1)	95 (15)	11 (21)	37 (15)
CH-201	SPQ	9010 (5)	17.4 (12)	5.0 (1)	89 (2)	65 (22)	35 (2)
07Y646	MPQ	8880 (6)	17.3 (13)	4.8 (14)	95 (9)	3 (17)	37 (9)
07Y700	M	8730 (7)	18.5 (6)	4.9 (10)	94 (4)	1 (1)	37 (4)
07Y698	M	8490 (8)	19.2 (3)	5.0 (1)	100 (19)	1 (1)	39 (19)
07Y726	M	8480 (9)	18.9 (4)	4.5 (17)	95 (9)	1 (1)	37 (9)
07Y671	SPQ	8420 (10)	17.5 (11)	4.7 (15)	91 (3)	1 (1)	36 (3)
07Y694	M	8320 (11)	17.1 (15)	5.0 (1)	95 (9)	1 (1)	37 (9)
07Y151	LIM	8310 (12)	15.3 (22)	4.9 (10)	95 (9)	1 (1)	37 (9)
08Y140	LIM	8300 (13)	16.8 (16)	5.0 (1)	101 (22)	1 (1)	40 (22)
M205	M	8220 (14)	18.2 (9)	5.0 (1)	95 (15)	1 (1)	37 (15)
07Y729	M	8140 (15)	17.2 (14)	4.7 (15)	94 (4)	1 (1)	37 (4)
CT201	LB	7490 (16)	16.0 (19)	5.0 (1)	100 (19)	1 (1)	39 (19)
07Y218	SWX	7310 (17)	16.2 (18)	3.9 (19)	83 (1)	1 (1)	33 (1)
CT202	LB	6300 (18)	15.9 (20)	4.9 (10)	94 (4)	1 (1)	37 (4)
07Y154	LB	6220 (19)	15.6 (21)	4.4 (18)	96 (17)	1 (1)	38 (17)
07Y666	SPQ	6210 (20)	18.1 (10)	2.5 (21)	94 (4)	3 (17)	37 (4)
07Y152	LB	4340 (21)	21.7 (1)	1.8 (22)	96 (18)	1 (1)	38 (18)
08Y138	LB	4170 (22)	18.4 (8)	3.8 (20)	100 (19)	1 (1)	39 (19)
MEAN		7850	17.7	4.5	95	5	37
CV		9.4	5.3	7.7	1.2	72.3	1.2
LSD (.05)		1530	2	0.7	2	7	1

S = short; M = medium; BG = bold grain; L = long; PQ = premium quality; la = low amalose; 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 17. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/  
Late Rice Varieties by Location and Year (2004-2008)

Location	Year	M-205	M-402	<b>M-202</b>	L-205
Biggs (RES)	2004	10180	9310	<b>9480</b>	10150
	2005	9110	8570	<b>8610</b>	9110
	2006	8830	8280	<b>8620</b>	8920
	2007	10080	8940	<b>8960</b>	9430
	2008	10950	9220	<b>10310</b>	9890
<b>Location Mean</b>		9830	8864	9196	9500
Glenn	2004	10210	9860	<b>9040</b>	9140
	2005	8190	9040	<b>8430</b>	7510
	2006	7050	7990	<b>6820</b>	6780
	2007	10400	9080	<b>9110</b>	9150
	2008	8440	7240	<b>8300</b>	8820
<b>Location Mean</b>		8858	8642	8340	8280
Sutter	2004	10850	9430	<b>11140</b>	10970
	2005	10040	7530	<b>9500</b>	9560
	2006	8490	7290	<b>7760</b>	8730
	2007	10320	8900	<b>9800</b>	10010
	2008	8430	9180	<b>8780</b>	7760
<b>Location Mean</b>		9626	8466	9396	9406
<b>Loc/Years Mean</b>		9438	8657	<b>8977</b>	9062
<b>Yield % M-202</b>		<b>105.1</b>	<b>96.4</b>	<b>100</b>	<b>100.9</b>
<b>Number of Tests</b>		15	15	<b>15</b>	15

Table 18. Comparison of main plot yields (lb/acre at 14% moisture) at the RES systems site following from one of the initial treatments to the rotational treatments.

Treatment	Yield (lb/acre, adjusted to 14% moisture)
1	7310
2	8175
3	8180
4	7480
5	8020

Systems:

- 1 – Water seeded, conv till followed by drill-seeded no spring till stale seedbed
- 2 – Drill seeded, conv till followed by water-seeded no spring till stale seedbed
- 3 – Water seeded, conv till, stale seedbed followed by conventional water-seeded
- 4 – Water seeded, no spring till, stale seedbed followed by drill seeded no spring till stale seedbed
- 5 – Drill seeded, no spring till, stale seedbed followed by water-seeded no spring till stale seedbed

Summary points:

In the first year of this rotation no significant differences were noted in yield, although the water seeded rotation trended higher in all cases.