

**ANNUAL REPORT  
COMPREHENSIVE RESEARCH ON RICE**

January 1, 2007 – March 31, 2008

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

**PROJECT LEADERS:**

James E. Hill, Specialist in UCCE, UC Davis

**PRINCIPAL UC INVESTIGATORS:**

C.M. Canevari, UCCE Farm Advisor, San Joaquin

L.A. Espino, UCCE Farm Advisor, Colusa, Glenn, Yolo

C.A. Greer, UCCE Farm Advisor, Sacramento, Sutter, Placer, Yuba

R.G. Mutters, UCCE Farm Advisor, Butte

R.L. Wennig, Staff Research Associate, UCCE/UC Davis

**LEVEL OF 2007 FUNDING:** \$117,100

**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. 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, all preliminary breeding lines 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 (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. The crop establishment systems included 1) conventional water seeded; 2) conventional drill seeded; 3) spring-tilled delayed stale seedbed water seeded; 4) minimum tilled (no spring tillage) water seeded; and, 5) minimum tilled (no spring tillage). Treatments 3-5 received intermittent irrigation to germinate weeds subsequently killed with glyphosate (Roundup). Following the Roundup treatment, plots were either water or drill seeded and treated with appropriate herbicides (see Project RP-1 report) to control late germinating weeds (an area was also left untreated for weeds in each plot to determine the effect of the tillage operation on weed recruitment and control).

**Temperature Based Degree Day Model:** Rice degree day phenology models are not widely utilized for scheduling field management decisions in California. Degree day models developed for California are 10-15 years old and need to be updated consistent with current varieties. The purpose of this study is to collect morphologically accurate phenological data for several of the most commonly grown rice cultivars in the Sacramento Valley and determine if these data can be useful for California rice management decisions. Detailed studies on rice growth and development were continued at the same three sites used in 2006.

## 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 25 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 rig. We also continued with the prescribed maintenance program for the SWECO plot combine.

An attempt was made to use the ALMACO rice combine at our first trial harvest in Glenn County. High grain moisture and 100 sack yields revealed threshing design flaws that lead us to

several weeks of design modifications and equipment testing with the ALMACO engineers. Inconsistent threshing results resulted in modifications and testing at a RES field. Based on the results of the final test harvest, threshing performance was considered unacceptable. Currently ALMACO is researching possible future design changes. The SWECO was used to harvest seven of the eight statewide rice variety trials.

## **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 demonstrations, personal communication, and through the distribution of four fact sheets (new varieties M-208 and L-206, Calmati-202, and the 2007 characteristics of publicly developed varieties), the Rice Field Day Program and other printed material. We hosted the Rice Breeders Tour. We also maintained and updated the UCCE rice website.

## **SUMMARY OF 2007 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 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. Thirty-four cultivars were tested in the preliminary trials at each location.

Grain yields in the advanced tests averaged 9,530 lb/ac at Biggs-RES, 10,660 lb/ac at Sutter, 7,220 lb/ac at Yolo, and 8,120 lb/ac at San Joaquin (Table 1). Over all locations, the highest yielding entry on average was an advanced medium grain line 05Y724 (9,920 lb/ac) followed by S-102 and M-206 (9,830 and 9,750 lb/ac respectively). Other top yielding commercial varieties L-206, M-104, CM-101, and M-202 ranked fourth, seventh, ninth, and eleventh, respectively. Averaged across locations, yields in the preliminary tests ranged from 4,590 to 9,680 lb/ac (Table 1). Average days to 50% heading for most varieties in 2007 were 14-17 days more than in 2006. Planting of the earliest rice fields was delayed 7-10 days due to rainy conditions; however 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 and reducing lodging. Over a 5-year period and across locations, S-102 was the highest yielding variety followed by M-206 at 9,396 lbs/ac and 9,111 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-205, M-206, M208, CT-201, CT-202, L-205, and L-206.

Yields in the advanced line tests averaged 8,420 lb/ac at the RES; 8,220 lb/ac at Butte, 6,810 lb/ac at Yuba, and 9,280 lb/ac at Colusa, (Table 7). Over-location yield averages for the early tests are lower than expected due to the inclusion of the Yuba County test which had reduced yields resulting from herbicide damage. M-206 was the highest yielding entry (8,850 lb/ac) when averaged over four locations in 2007 (Table 7). Other consistently high yielding entries were 99Y529, M-205, 03Y559, L-206, 01Y655, and 06Y333, all ranking within the top ten at three of the four locations. The yield of commercial varieties M-205, L-206, M-208, S-102, L-205, and M-202, ranked third, fifth, twelfth, thirteenth, fourteenth and sixteenth over all locations (Table 7). Average days to 50% heading ranged from 85 days at the RES to 92 days at the Yuba County site. The commercial standard M-202 headed at 91 days at the RES and 96 days at Yuba. M-205 was the highest yielding commercial variety (9,235 lb/ac) followed by M-204 (8,944 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 CA-201, CH-201, M-202, M-205, M-402, L-205, L-206, CT-201, and CT-202.

Average yields in the advanced tests were 9,530 lb/ac at the RES, 9,530 lb/ac at Glenn, and 9,540 lb/ac at Sutter (Table 13). The 2007 advanced over location average yield was 1,370 lb/ac greater than the 2006 season average. All locations yielded higher in 2007 with the average advanced test yield increasing almost 2,600 lbs/ac at Glenn. M-205 was the highest yielding commercial variety (10,270 lb/ac), ranking second over all. L-206 and L-205 were the next highest yielding commercial varieties across locations (Table 13). The stem rot resistant short grain entry 05Y657 was the highest yielding advanced entry across locations, at 10,410 lb/ac. Average days to 50% heading ranged from 87 days at the Sutter County site to 92 days at the Glenn location. The environmental conditions described earlier had a similar effect of increasing the number of days to 50% heading (an average of 4-6 days compared to 2006). M-402 required the longest time to 50% heading among the commercial varieties at all locations, (average is 102 days). Moderate temperatures and deep water resulted in the days to 50% heading for M-402 being similar to the 2005 and 2006 seasons.

Averaged over the last five years and across locations, M-205 is the highest yielding (9,571 lb/ac) commercial variety (Table 17). M-205 and M-402 produced 108% and 98%, respectively, of the yield of M-202 on average over the last 5 years (Table 17).

## Objective II - Cultural Practices

**Stand Establishment Trials:** In 2004, we established a project at the RES to investigate different planting methods on rice seedling establishment and weed resistance 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 are 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). Under treatments with no spring disturbance of soil, or with long drain periods, different approaches for N management are necessary. In the conventional water seeded (treatment 1) and the delayed spring-tilled stale seedbed (treatment 3) where the soil is spring tilled, we incorporated N preplant as is normally recommended for water seeded rice. In the drill seeded treatment (2), N was applied in splits. In the no-spring till drill and water seeded treatments (4 and 5) where soil disturbance would defeat the purpose of non tillage with respect to weed recruitment, N must be applied to the surface. Phosphorus was applied in the fall and to the entire block and incorporated with fall tillage. This allowed P applications to be uniform across treatments that were treated differently in the spring with regard to tillage. Table 18 compares these treatments when combined for statistical power over four years. This data shows that treatment 3 is significantly lower than treatments 1, 2, 4 and 5 when all are compared at 150 lb N/ac. We attribute the lower yields in treatment 3 to the fact that water was lowered after preplant N was applied and thus the 10-14 days of drainage to encourage weed growth and treat with Roundup contributed to significant N losses. Furthermore, treatment 3 is delayed by both spring tillage and flushing to germinate weeds and treat with Roundup. Thus, we will not focus on this treatment in the future as it is unlikely to be adopted. The data show that different systems for growing rice are feasible for California rice production. Interestingly, although not significant at the 5% level, both conventional drill seeded and no spring-till drill seeded treatments gave higher yields than the water seeded treatments.

**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 fifth year maintenance schedule were inspected and replaced as needed.

The rice equipment pool, including a precision Clampco fertilizer applicator, SWECO 324 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 2007. 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, and one rice fertility trial. Over 1,200 experimental plots were harvested in 2007. 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 2007, for the California Cooperative Rice Research Foundation, RES, 47 pp.
2. The UCCE website was updated.
3. UCCE winter grower meetings were held at Colusa and Yuba City.
4. Three activities were held at the RES -- field demonstration on Rice Cultural Systems and Water Quality; and annual California Rice Field day, and Rice Breeders' tour.

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

Fischer, A.J., Moechnig, M.J., Hill, J.E., Mutters, R.G., Linqvist, B.A., and Greer, C. 2007. Managing herbicide resistance using alternative rice establishment techniques. 4<sup>th</sup> International Temperate Rice Conference. 25-28 June, Italy.

Ruark M.D., Linqvist B.A., Hill J.E., Greer C.A., Mutters R.G., Six J., and van Kessel C. 2007. Rice straw management and water quality in Northern California. 2007. Managing herbicide resistance using alternative rice establishment techniques. 4<sup>th</sup> International Temperate Rice Conference. 25-28 June, Italy.

Koffler, K., Linqvist, B.A., Hill, J.E., Mutters, R.G., Greer, C.A., and van Kessel, C. 2007. Managing nitrogen in alternative rice establishment and weed control systems of California. 4<sup>th</sup> International Temperate Rice Conference. 25-28 June, Italy.

Hill, J.E., Fischer, A.J., Greer, C.A., and Mutters, R.G. 2007. Herbicide resistance stewardship in rice. Hill, J.E., Fischer A.J., Greer C.A., and R.G. Mutters. 4<sup>th</sup> International Temperate Rice Conference. 25-28 June, Italy.

Linguist, B.A., and Hill, J.E. 2007. The State of the US Rice Industry and Lessons for Developing Countries. The International Annual Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 4-8 Nov, New Orleans, Louisiana.

Ruark, M.D., Linguist, B.A., Hill, J.E., Greer, C.A., Mutters, R.G., Six, J., and van Kessel, C. Dissolved Organic Carbon and Sediment Losses from Flooded Rice Fields in Northern California. The International Annual Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 4-8 Nov, New Orleans, Louisiana.

Linguist, B.A., Ruark, M.D., Hill, J.E., Mutters, R.G., Greer, G.A., Six, J., and van Kessel, C. Nitrogen, Phosphorus, and Potassium Losses from Flooded Rice Fields in Northern California. The International Annual Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 4-8 Nov, New Orleans, Louisiana.

Koffler, K., Linguist, B.A., Hill, J.E., Mutters, R.G., Greer, C.A., and van Kessel, C. The Effects of Early Season Soil Flooding-Drying Cycles on N Dynamics and Agronomic Productivity in California Rice Systems. The International Annual Meetings of the American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America. 4-8 Nov, New Orleans, Louisiana.

Linguist, B.A., van Kessel, C., Fischer, A.J., Hill, J.E., Spencer, D., Pedroso, G., Lundy, M., Mutters, R.G., and Greer, C. 2007. The Effect of P Placement on Weed and Algae Growth in Rice Systems. Rice Field Day, 29 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. p.10.

Koffler, K., Linguist, B.A., Hill, J.E., Tiene Da Silva, F., Kiyohara, F., van Kessel, C., Mutters, R.G., and Greer, C.A. 2007. Linking Changes in Early Season Water Management to Changes in Nitrogen Dynamics in California Rice Systems. Rice Field Day, 29 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306.

Ruark, M.D., Linguist, B.A., van Kessel, C., Six, J., and Hill, J.E. 2007. Dissolved Organic Carbon Losses From Rice Production Systems Under Various Straw and Water Managements. Rice Field Day, 29 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. p. 17.

Greer, C.A., Fischer, A.J., Mutters, R.G., and Hill, J.E. 2007. Red Rice in California Rice Field Day, 29 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. p. 22.

Hill, J.E., Fischer, A.J., Greer, C.A., and Mutters, R.G. 2007. Herbicide Resistance Stewardship in Rice. University of California Cooperative Extension. 2 pp.

Hill, J.E., Fischer, A.J., Greer, C.A., and Mutters, R.G. 2007. Herbicide Resistance Stewardship in Rice. Rice Field Day, 29 August, California Cooperative Rice Research Foundation, Inc. USDA-Univ of California, P.O. Box 306, Biggs, CA 95917-0306. .

Hill, J.E., Canevari, W.M., Espino, L.A., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2007. University of California Cooperative Extension (UCCE) rice variety adaptation and cultural practices research. *In* Annual Report Comprehensive Rice Research 2006. University of California and USDA. (available in e-version only).

Jodari, F., Johnson, C.W., Oster, J.J., Hill, J.E., Canevari, W.M., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2007. Characteristics of Public California Rice Varieties. Agronomy Fact Sheet Series 2007-1. University of California Davis, Department of Plant Sciences.

Jodari, F., Johnson, C.W., Oster, J.J., Hill, J.E., Canevari, W.M., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2007. M-208 Rice: Description and Management Guidelines. Agronomy Fact Sheet Series 2007-2. University of California Davis, Department of Plant Sciences.

Jodari, F., Johnson, C.W., Oster, J.J., Hill, J.E., Canevari, W.M., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2007. L-206 Rice: Description and Management Guidelines. Agronomy Fact Sheet Series 2007-3. University of California Davis, Department of Plant Sciences.

Jodari, F., Johnson, C.W., Oster, J.J., Hill, J.E., Canevari, W.M., Greer, C.A., Mutters, R.G., and Wennig, R.L. 2007. Calmati-202 Rice: Description and Management Guidelines. Agronomy Fact Sheet Series 2007-4. 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 8,790 lb/acre in the very early trials to 8,150 lb/acre in the early tests. In the intermediate to late tests the advanced lines average yield was 9,540 lb/acre. Planting of the earliest rice fields was delayed 7-10 days due to rainy condition; however the majority of rice acreage was planted in a timely manner. Several advanced lines in 2007 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. Five different methods of stand establishment were evaluated with respect to N fertility management and for their impact on weed management (reported under RP-1). After

four years of continuous rice under each of the treatments, yields were significantly different only in the delayed spring tilled stale seedbed treatment. Two reasons may account for these differences. Of all five treatments, the delayed stale seedbed requires the longest time from field preparation to planting and with long drained periods N losses are high. We will discontinue this treatment as its adoption would be unlikely. Even though we flushed and drained the no-spring till treatments, N loss was not an issue because it was applied post plant in splits timed for maximum uptake by the rice plant. Most importantly, rice yields for the remaining four of the five treatments including conventional water and drill seeded rice as well as non spring tilled rice either water or drill seeded were not significantly different in yield. In fact, trends would indicate that the two drill seeded treatments, either stale seedbed or conventional were higher in yield than the water seeded treatments. This work demonstrates the feasibility of different stand establishment practices that may reduce both resistant weeds and lower costs in California rice production.

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. 2007 Very Early Rice Variety Tests - Four Location Summary

*Advanced Lines and Varieties*

Variety	Grain Type	Ave Grain Yield at 14%		Single Location Yields				Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		Moisture lbs/acre		Biggs	Sutter	Yolo	San Joaquin					
05Y724	M	9920 (1)	11190 (1)	11290 (1)	7720 (1)	9480 (4)	17.9 (4)	4.9 (10)	91 (6)	13 (7)	35 (4)	
S102	S	9830 (2)	10730 (4)	11100 (4)	7140 (11)	10340 (1)	14.4 (17)	4.8 (16)	88 (2)	23 (11)	36 (9)	
M206	M	9750 (3)	11030 (2)	11250 (2)	7350 (8)	9380 (5)	17.7 (5)	4.9 (11)	91 (8)	19 (9)	36 (8)	
L206	L	9540 (4)	10360 (6)	10440 (14)	7520 (2)	9850 (2)	15.0 (16)	4.9 (3)	91 (7)	11 (6)	32 (1)	
01Y655	REX	9080 (5)	9390 (11)	10890 (6)	7490 (5)	8540 (10)	16.3 (11)	4.9 (6)	100 (17)	1 (1)	37 (15)	
04Y501	REX	9040 (6)	10130 (8)	10720 (8)	7280 (9)	8040 (11)	15.8 (14)	4.9 (3)	94 (12)	1 (1)	36 (11)	
M104	M	9040 (7)	8930 (12)	10680 (9)	7510 (3)	9050 (6)	17.6 (7)	4.9 (8)	88 (1)	25 (12)	35 (7)	
05Y196	SPQ	8820 (8)	7900 (15)	11060 (5)	7390 (7)	8930 (7)	17.7 (6)	4.9 (9)	93 (10)	29 (17)	36 (13)	
CM101	SWX	8760 (9)	6740 (17)	11140 (3)	7500 (4)	9650 (3)	16.2 (13)	4.8 (13)	90 (4)	26 (14)	36 (10)	
04Y227	M	8700 (10)	8430 (14)	10620 (10)	7100 (12)	8640 (9)	17.0 (8)	4.9 (3)	89 (3)	28 (16)	38 (17)	
M202	M	8590 (11)	10250 (7)	10740 (7)	7220 (10)	6130 (15)	19.8 (1)	4.9 (12)	97 (15)	20 (10)	36 (12)	
04Y332	MPQ	8570 (12)	10420 (5)	10220 (15)	7400 (6)	6240 (14)	19.5 (2)	4.9 (7)	94 (12)	18 (8)	36 (14)	
04Y177	SPQ	8510 (13)	7720 (16)	10510 (13)	6960 (14)	8850 (8)	16.2 (12)	4.8 (17)	90 (5)	27 (15)	35 (2)	
L205	REX	8500 (14)	9550 (10)	10000 (16)	7010 (13)	7430 (12)	15.5 (15)	5.0 (2)	95 (14)	8 (5)	35 (5)	
04Y508	L	8430 (15)	9870 (9)	10540 (12)	6690 (16)	6610 (13)	16.8 (10)	4.8 (13)	97 (16)	1 (1)	35 (6)	
07Y015	LSR	7970 (16)	10880 (3)	9450 (17)	6610 (17)	4940 (17)	16.8 (9)	5.0 (1)	94 (11)	1 (4)	35 (3)	
05Y299	MPQ	7960 (17)	8430 (13)	10550 (11)	6870 (15)	5970 (16)	19.5 (3)	4.8 (15)	92 (9)	26 (13)	37 (16)	
MEAN		8790	9530	10660	7220	8120	16.9	4.9	94	10	35	
CV		5.2	7.4	3.3	6.3	5.4	6.1	1.6	1.3	67	3.1	
LSD (.05)		340	1490	510	650	620	0.8	0.1	1	5	1	

*Preliminary Lines and Varieties*

06Y239	M	9680 (1)	10090 (7)	11010 (6)	7510 (8)	10110 (2)	16.7 (19)	5.0 (12)	89 (3)	14 (14)	38 (27)
06Y889	M	9660 (2)	9720 (14)	11010 (7)	7920 (2)	10000 (3)	16.8 (16)	4.9 (18)	90 (8)	13 (12)	36 (16)
06Y436	M	9630 (3)	10370 (1)	11140 (5)	8060 (1)	8970 (12)	17.4 (9)	4.9 (25)	92 (22)	20 (19)	37 (21)
06Y223	SWX	9520 (4)	8840 (27)	11170 (3)	7310 (13)	10760 (1)	17.6 (8)	4.9 (33)	91 (16)	21 (23)	39 (32)
06Y288	M	9380 (5)	9550 (15)	10910 (10)	7720 (6)	9350 (6)	17.2 (11)	4.9 (25)	91 (13)	21 (21)	38 (29)
06Y385	M	9380 (6)	10130 (6)	11160 (4)	7110 (17)	9120 (8)	17.0 (14)	5.0 (7)	92 (23)	23 (27)	37 (22)
06Y220	SWX	9360 (7)	10150 (5)	10640 (14)	6930 (23)	9720 (4)	16.1 (24)	4.9 (18)	90 (6)	23 (28)	36 (13)
05Y471	M	9360 (8)	9830 (10)	10440 (22)	7820 (4)	9340 (7)	17.0 (15)	5.0 (2)	88 (1)	20 (20)	38 (30)
06Y236	M	9340 (9)	9530 (18)	11340 (1)	7760 (5)	8750 (15)	16.6 (22)	4.9 (29)	91 (11)	22 (25)	37 (24)
06Y832	M	9260 (10)	9170 (23)	11000 (8)	7890 (3)	8960 (13)	19.5 (2)	4.9 (27)	93 (25)	22 (24)	38 (28)
06Y485	LWX	9230 (11)	10050 (8)	10520 (19)	7300 (14)	9070 (10)	16.0 (25)	5.0 (5)	102 (33)	1 (4)	36 (17)
06Y367	SWX	9150 (12)	9520 (19)	10560 (17)	7080 (19)	9420 (5)	17.7 (7)	4.9 (22)	92 (23)	18 (17)	38 (31)
06Y510	REX	9060 (13)	10240 (4)	10690 (13)	7430 (9)	7860 (24)	15.9 (26)	5.0 (5)	95 (28)	1 (1)	36 (14)
06Y230	M	9050 (14)	9120 (24)	10460 (21)	7520 (7)	9100 (9)	16.7 (18)	5.0 (7)	90 (7)	17 (16)	37 (25)
06Y513	L	8960 (15)	9810 (11)	10100 (27)	7100 (18)	8810 (14)	15.0 (32)	5.0 (1)	95 (30)	1 (4)	36 (8)
99Y529	L	8960 (16)	9760 (12)	10760 (11)	7070 (20)	8250 (19)	15.8 (27)	5.0 (12)	96 (31)	2 (8)	35 (5)
05Y552	JAS	8940 (17)	9870 (9)	10640 (15)	7200 (16)	8070 (23)	14.3 (33)	4.9 (33)	90 (9)	3 (10)	35 (3)
06Y843	M	8930 (18)	9350 (21)	10920 (9)	7320 (11)	8140 (20)	17.1 (13)	5.0 (12)	90 (9)	25 (30)	36 (15)
06Y265	M	8850 (19)	10370 (1)	10410 (23)	6510 (29)	8100 (21)	16.8 (17)	5.0 (7)	91 (11)	18 (18)	36 (12)
06Y274	M	8840 (20)	9180 (22)	10270 (25)	7320 (12)	8600 (16)	17.1 (12)	5.0 (12)	92 (17)	22 (26)	36 (19)
06Y240	M	8810 (21)	8680 (28)	11190 (2)	7010 (22)	8370 (17)	17.2 (10)	4.9 (22)	92 (20)	24 (29)	37 (23)
06Y928	M	8780 (22)	9530 (17)	10510 (20)	7260 (15)	7830 (25)	15.5 (29)	5.0 (12)	89 (5)	16 (15)	37 (20)
06Y199	SPQ	8630 (23)	8390 (29)	10620 (16)	6500 (30)	9030 (11)	16.2 (23)	4.9 (31)	89 (4)	29 (31)	36 (9)
06Y518	L	8420 (24)	9740 (13)	9690 (30)	6580 (27)	7680 (26)	16.6 (21)	4.9 (29)	97 (32)	1 (4)	36 (11)
03Y167	SPQ	8370 (25)	9430 (20)	10080 (28)	6520 (28)	7430 (27)	18.4 (5)	4.9 (31)	92 (17)	1 (1)	35 (5)
06Y506	L	8350 (26)	10340 (3)	9680 (31)	7030 (21)	6320 (31)	16.6 (20)	5.0 (7)	94 (26)	1 (4)	35 (5)
06Y207	SPQ	8270 (27)	8270 (31)	10370 (24)	6140 (32)	8310 (18)	14.3 (34)	4.9 (18)	88 (1)	46 (34)	35 (1)
05Y547	REX	8150 (28)	9550 (16)	9960 (29)	6660 (25)	6450 (30)	15.4 (30)	4.9 (27)	94 (27)	2 (8)	38 (26)
04Y330	MPQ	8050 (29)	9050 (25)	10690 (12)	6590 (26)	5870 (33)	19.5 (2)	5.0 (12)	92 (17)	21 (21)	35 (4)
05Y490	L	8020 (30)	8840 (26)	8600 (33)	7430 (10)	7200 (29)	15.1 (31)	5.0 (2)	95 (28)	4 (11)	36 (9)
06Y208	SPQ	7940 (31)	7040 (33)	10560 (18)	6070 (33)	8080 (22)	15.8 (28)	4.9 (22)	92 (21)	29 (32)	36 (18)
06Y175	MPQ	7830 (32)	8370 (30)	10260 (26)	6480 (31)	6210 (32)	19.1 (4)	5.0 (2)	91 (13)	38 (33)	40 (34)
06Y184	MPQ	7780 (33)	7900 (32)	8920 (32)	6920 (24)	7380 (28)	17.9 (6)	5.0 (7)	91 (13)	13 (12)	39 (33)
03Y151	REX	4590 (34)	5090 (34)	5950 (34)	5350 (34)	1960 (34)	20.8 (1)	4.9 (18)	106 (34)	1 (1)	35 (2)
MEAN		8720	9260	10360	7070	8190	16.8	4.9	92	16	37
CV		6.9	9.4	5.3	6	5.5	6.7	1.4	1.8	54.4	3.4
LSD (.05)		600	1780	1130	870	920	1.1	0.1	2	8	1

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; JAS = Jasmine; REX = 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. 2007 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)
05Y724	M	11190 (1)	18.5 (7)	4.6 (10)	84 (9)	45 (7)	36 (2)
M206	M	11030 (2)	18.0 (11)	4.6 (10)	83 (7)	73 (9)	36 (4)
07Y015	LSR	10880 (3)	18.1 (9)	5.0 (1)	85 (10)	0 (1)	37 (5)
S102	S	10730 (4)	14.7 (17)	4.3 (17)	79 (1)	89 (11)	38 (9)
04Y332	MPQ	10420 (5)	18.9 (2)	4.8 (7)	87 (11)	70 (8)	37 (7)
L206	L	10360 (6)	17.9 (13)	4.8 (7)	80 (2)	40 (6)	34 (1)
M202	M	10250 (7)	17.1 (15)	4.6 (13)	89 (14)	77 (10)	38 (12)
04Y501	REX	10130 (8)	17.6 (14)	4.9 (4)	87 (13)	0 (1)	39 (16)
04Y508	L	9870 (9)	18.8 (3)	4.5 (14)	91 (16)	0 (1)	38 (11)
L205	REX	9550 (10)	18.0 (11)	4.9 (3)	89 (15)	28 (5)	37 (8)
01Y655	REX	9390 (11)	21.2 (1)	5.0 (1)	97 (17)	0 (1)	39 (13)
M104	M	8930 (12)	18.7 (5)	4.7 (8)	80 (2)	97 (13)	37 (5)
05Y299	MPQ	8430 (13)	18.2 (8)	4.4 (16)	84 (8)	90 (12)	39 (13)
04Y227	M	8430 (14)	16.7 (16)	4.9 (4)	81 (4)	97 (13)	40 (17)
05Y196	SPQ	7900 (15)	18.1 (9)	4.7 (8)	87 (11)	99 (15)	39 (13)
04Y177	SPQ	7720 (16)	18.7 (5)	4.4 (15)	83 (6)	100 (16)	36 (3)
CM101	SWX	6740 (17)	18.8 (4)	4.6 (10)	81 (4)	100 (16)	38 (10)
MEAN		9530	18.1	4.7	85	59	37
CV		7.4	6.3	3.3	1.6	28.2	3
LSD (.05)		1490	2.4	0.3	3	35	2

*Preliminary Lines and Varieties*

06Y265	M	10370 (1)	15.9 (31)	4.9 (7)	77 (1)	70 (18)	37 (22)
06Y436	M	10370 (1)	17.5 (14)	4.8 (20)	82 (17)	75 (19)	37 (15)
06Y506	L	10340 (3)	18.0 (10)	4.9 (7)	83 (20)	3 (4)	36 (10)
06Y510	REX	10240 (4)	17.1 (15)	4.9 (7)	86 (26)	0 (1)	38 (25)
06Y220	SWX	10150 (5)	15.8 (32)	4.8 (20)	80 (5)	90 (29)	37 (12)
06Y385	M	10130 (6)	16.2 (29)	4.9 (11)	81 (10)	88 (28)	38 (30)
06Y239	M	10090 (7)	16.3 (28)	4.9 (11)	80 (5)	50 (12)	38 (26)
06Y485	LWX	10050 (8)	17.8 (12)	5.0 (2)	94 (33)	3 (4)	37 (15)
05Y552	LJ	9870 (9)	16.9 (17)	4.6 (31)	80 (5)	10 (10)	37 (12)
05Y471	M	9830 (10)	16.3 (27)	5.0 (2)	78 (3)	78 (20)	39 (32)
06Y513	L	9810 (11)	16.4 (24)	5.0 (1)	87 (29)	3 (4)	36 (8)
99Y529	L	9760 (12)	16.4 (24)	4.8 (15)	84 (23)	5 (8)	36 (6)
06Y518	L	9740 (13)	19.0 (3)	4.6 (31)	91 (32)	3 (4)	37 (12)
06Y889	M	9720 (14)	17.7 (13)	4.8 (20)	83 (21)	50 (12)	36 (8)
06Y288	M	9550 (15)	18.0 (9)	4.7 (27)	80 (4)	80 (21)	37 (15)
05Y547	REX	9550 (16)	16.9 (17)	5.0 (2)	82 (17)	5 (8)	37 (15)
06Y928	M	9530 (17)	15.3 (33)	4.8 (15)	80 (5)	63 (16)	38 (26)
06Y236	M	9530 (18)	16.8 (19)	4.6 (34)	82 (17)	83 (25)	37 (22)
06Y367	SWX	9520 (19)	19.0 (3)	4.7 (27)	87 (28)	60 (15)	38 (28)
03Y167	SPQ	9430 (20)	18.5 (6)	4.8 (20)	88 (30)	0 (1)	35 (1)
06Y843	M	9350 (21)	16.1 (30)	4.8 (15)	81 (10)	80 (21)	36 (4)
06Y274	M	9180 (22)	17.1 (15)	4.8 (15)	83 (21)	85 (27)	37 (15)
06Y832	M	9170 (23)	19.9 (2)	4.6 (31)	84 (23)	84 (26)	39 (31)
06Y230	M	9120 (24)	16.4 (24)	4.9 (11)	81 (14)	65 (17)	37 (24)
04Y330	MPQ	9050 (25)	18.4 (7)	4.8 (15)	81 (10)	80 (21)	35 (1)
05Y490	L	8840 (26)	16.5 (23)	5.0 (2)	88 (30)	13 (11)	36 (6)
06Y223	SWX	8840 (27)	16.6 (22)	4.7 (30)	84 (25)	80 (21)	37 (15)
06Y240	M	8680 (28)	17.9 (11)	4.7 (27)	81 (10)	93 (30)	38 (28)
06Y199	SPQ	8390 (29)	18.7 (5)	4.8 (20)	80 (5)	100 (34)	35 (1)
06Y175	MPQ	8370 (30)	18.3 (8)	5.0 (2)	81 (14)	95 (32)	40 (33)
06Y207	SPQ	8270 (31)	15.3 (33)	4.8 (20)	77 (2)	97 (33)	37 (11)
06Y184	MPQ	7900 (32)	16.8 (20)	4.9 (11)	81 (14)	50 (12)	40 (34)
06Y208	SPQ	7040 (33)	16.8 (20)	4.8 (20)	86 (26)	93 (30)	37 (15)
03Y151	REX	5090 (34)	21.1 (1)	4.9 (7)	96 (34)	0 (1)	36 (4)
MEAN		9260	17.3	4.8	83	54	37
CV		9.4	9.1	1.9	2.4	25.8	3.9
LSD (.05)		1780		0.2	4	28	

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; REX = 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. 2007 Very Early Rice Variety Test - Sutter

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading		
05Y724	M	11290 (1)	17.3 (2)	5.0 (1)	89 (12)	1 (1)	37 (13)
M206	M	11250 (2)	17.0 (4)	5.0 (6)	90 (14)	1 (1)	37 (14)
CM101	SWX	11140 (3)	13.4 (11)	4.8 (16)	84 (2)	2 (14)	36 (11)
S102	S	11100 (4)	13.0 (15)	4.9 (15)	83 (1)	1 (1)	36 (10)
05Y196	SPQ	11060 (5)	15.9 (8)	4.9 (13)	92 (15)	2 (14)	36 (6)
01Y655	LREX	10890 (6)	13.0 (14)	5.0 (6)	94 (16)	1 (1)	36 (7)
M202	M	10740 (7)	18.9 (1)	5.0 (1)	95 (17)	1 (1)	36 (9)
04Y501	LREX	10720 (8)	13.3 (12)	5.0 (6)	86 (5)	1 (1)	36 (7)
M104	M	10680 (9)	16.6 (6)	5.0 (12)	84 (2)	1 (1)	36 (11)
04Y227	M	10620 (10)	16.1 (7)	4.9 (13)	85 (4)	1 (1)	40 (17)
05Y299	MPQ	10550 (11)	16.7 (5)	5.0 (6)	86 (6)	2 (14)	38 (16)
04Y508	L	10540 (12)	12.9 (16)	5.0 (6)	88 (9)	1 (1)	33 (2)
04Y177	SPQ	10510 (13)	14.6 (9)	4.8 (17)	86 (6)	2 (14)	35 (5)
L206	L	10440 (14)	13.1 (13)	5.0 (6)	89 (11)	1 (1)	31 (1)
04Y332	MPQ	10220 (15)	17.3 (3)	5.0 (1)	88 (8)	1 (1)	37 (15)
L205	LREX	10000 (16)	12.6 (17)	5.0 (1)	88 (10)	1 (1)	34 (4)
07Y015	LSR	9450 (17)	14.2 (10)	5.0 (1)	89 (12)	1 (1)	34 (3)
MEAN		10660	15.1	4.9	88	1	36
CV		3.3	3.8	1.7	1.2	76	3
LSD (.05)		510	0.8	0.1	1		1

*Preliminary Lines and Varieties*

06Y236	M	11340 (1)	15.6 (20)	5.0 (1)	88 (21)	3 (28)	35 (16)
06Y240	M	11190 (2)	16.1 (15)	5.0 (1)	89 (24)	1 (1)	35 (15)
06Y223	SWX	11170 (3)	16.1 (14)	4.8 (33)	86 (12)	3 (28)	37 (29)
06Y385	M	11160 (4)	16.6 (9)	5.0 (1)	88 (21)	1 (1)	36 (22)
06Y436	M	11140 (5)	16.6 (10)	5.0 (1)	92 (32)	1 (1)	36 (23)
06Y239	M	11010 (6)	15.6 (19)	5.0 (26)	86 (10)	1 (1)	36 (25)
06Y889	M	11010 (7)	15.9 (17)	5.0 (1)	88 (19)	1 (1)	35 (16)
06Y832	M	11000 (8)	18.7 (1)	5.0 (1)	89 (28)	1 (1)	37 (28)
06Y843	M	10920 (9)	16.9 (6)	5.0 (1)	89 (24)	1 (1)	35 (18)
06Y288	M	10910 (10)	16.1 (16)	5.0 (26)	88 (19)	1 (1)	37 (29)
99Y529	L	10760 (11)	13.3 (28)	5.0 (1)	89 (24)	1 (1)	33 (3)
04Y330	MPQ	10690 (12)	16.9 (5)	5.0 (1)	85 (6)	1 (1)	33 (5)
06Y510	REX	10690 (13)	14.0 (25)	5.0 (1)	88 (21)	1 (1)	33 (5)
06Y220	SWX	10640 (14)	15.3 (21)	5.0 (1)	84 (1)	1 (1)	34 (13)
05Y552	LJ	10640 (15)	12.5 (33)	5.0 (1)	85 (6)	1 (1)	33 (5)
06Y199	SPQ	10620 (16)	13.8 (26)	4.8 (33)	85 (2)	6 (30)	34 (9)
06Y367	SWX	10560 (17)	15.7 (18)	5.0 (1)	85 (6)	8 (31)	38 (33)
06Y208	SPQ	10560 (18)	14.4 (23)	5.0 (1)	85 (6)	23 (33)	35 (18)
06Y485	LWX	10520 (19)	12.6 (32)	5.0 (26)	95 (33)	1 (1)	34 (12)
06Y928	M	10510 (20)	14.9 (22)	5.0 (1)	86 (12)	1 (1)	36 (25)
06Y230	M	10460 (21)	16.1 (13)	5.0 (1)	87 (14)	1 (1)	35 (18)
05Y471	M	10440 (22)	16.2 (12)	5.0 (1)	85 (2)	1 (1)	37 (32)
06Y265	M	10410 (23)	16.6 (8)	5.0 (26)	87 (14)	1 (1)	36 (23)
06Y207	SPQ	10370 (24)	12.2 (34)	5.0 (1)	85 (2)	60 (34)	32 (1)
06Y274	M	10270 (25)	16.4 (11)	5.0 (1)	87 (17)	1 (1)	35 (21)
06Y175	MPQ	10260 (26)	17.1 (4)	5.0 (1)	86 (10)	21 (32)	39 (34)
06Y513	L	10100 (27)	12.8 (30)	5.0 (1)	89 (28)	1 (1)	32 (1)
03Y167	SPQ	10080 (28)	17.8 (2)	5.0 (1)	89 (24)	1 (1)	34 (9)
05Y547	REX	9960 (29)	12.7 (31)	4.9 (32)	85 (2)	1 (1)	37 (29)
06Y518	L	9690 (30)	14.3 (24)	5.0 (26)	90 (31)	1 (1)	33 (3)
06Y506	L	9680 (31)	13.7 (27)	5.0 (26)	87 (17)	1 (1)	34 (11)
06Y184	MPQ	8920 (32)	16.7 (7)	5.0 (1)	89 (28)	1 (1)	37 (27)
05Y490	L	8600 (33)	13.1 (29)	5.0 (1)	87 (14)	1 (1)	34 (14)
03Y151	REX	5950 (34)	17.6 (3)	5.0 (1)	107 (34)	1 (1)	33 (5)
MEAN		10360	15.3	5.0	88	4	35
CV		5.3	3	2	1	138.4	2.5
LSD (.05)		1130	0.9		2	12	2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; REX = 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. 2007 Very Early Rice Variety Test - Yolo

<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	7720 (1)	17.4 (10)	5.0 (1)	83 (3)	5 (14)	33 (3)
L206	L	7520 (2)	14.5 (17)	5.0 (1)	89 (12)	1 (1)	35 (12)
M104	M	7510 (3)	17.1 (11)	5.0 (1)	81 (1)	1 (1)	32 (1)
CM101	SWX	7500 (4)	16.2 (14)	5.0 (12)	87 (10)	1 (1)	34 (10)
01Y655	REX	7490 (5)	17.5 (9)	4.8 (17)	95 (16)	1 (1)	37 (16)
04Y332	MPQ	7400 (6)	17.8 (5)	5.0 (12)	87 (10)	1 (1)	34 (10)
05Y196	SPQ	7390 (7)	17.1 (12)	5.0 (1)	86 (8)	5 (14)	34 (8)
M206	M	7350 (8)	18.0 (4)	5.0 (1)	86 (8)	1 (1)	34 (8)
04Y501	REX	7280 (9)	17.6 (8)	5.0 (12)	91 (13)	1 (1)	36 (13)
M202	M	7220 (10)	17.7 (7)	5.0 (1)	86 (6)	1 (1)	34 (6)
S102	S	7140 (11)	15.3 (16)	5.0 (10)	84 (4)	1 (1)	33 (4)
04Y227	M	7100 (12)	18.3 (3)	5.0 (1)	82 (2)	15 (17)	32 (2)
L205	REX	7010 (13)	17.8 (6)	5.0 (10)	92 (14)	1 (1)	36 (14)
04Y177	SPQ	6960 (14)	15.7 (15)	4.9 (15)	85 (5)	3 (12)	34 (5)
05Y299	MPQ	6870 (15)	18.4 (2)	5.0 (1)	86 (6)	11 (16)	34 (6)
04Y508	L	6690 (16)	18.5 (1)	4.9 (15)	95 (17)	1 (1)	37 (17)
07Y015	LSR	6610 (17)	17.0 (13)	5.0 (1)	92 (14)	3 (12)	36 (14)
MEAN		7220	17.2	5.0	87	3	34
CV		6.3	8.1	1.6	1.4	199.4	1.3
LSD (.05)		650	2	0.1	2		1
<i>Preliminary Lines and Varieties</i>							
06Y436	M	8060 (1)	17.1 (7)	4.9 (30)	86 (16)	1 (1)	39 (7)
06Y889	M	7920 (2)	16.5 (17)	5.0 (1)	84 (7)	1 (1)	40 (16)
06Y832	M	7890 (3)	17.3 (5)	5.0 (1)	87 (20)	1 (1)	40 (25)
05Y471	M	7820 (4)	17.6 (4)	5.0 (1)	85 (13)	1 (1)	43 (33)
06Y236	M	7760 (5)	16.1 (21)	5.0 (1)	82 (1)	1 (1)	41 (28)
06Y288	M	7720 (6)	16.2 (19)	5.0 (1)	88 (22)	1 (1)	42 (30)
06Y230	M	7520 (7)	16.1 (20)	5.0 (1)	84 (7)	1 (1)	39 (12)
06Y239	M	7510 (8)	16.4 (18)	5.0 (1)	82 (1)	3 (30)	40 (24)
06Y510	REX	7430 (9)	14.8 (33)	5.0 (1)	89 (26)	1 (1)	41 (26)
05Y490	L	7430 (10)	15.9 (23)	5.0 (1)	92 (27)	1 (1)	39 (10)
06Y843	M	7320 (11)	17.1 (6)	5.0 (1)	83 (4)	18 (33)	40 (16)
06Y274	M	7320 (12)	16.6 (15)	5.0 (1)	85 (13)	1 (1)	40 (19)
06Y223	SWX	7310 (13)	17.0 (9)	5.0 (1)	86 (16)	1 (1)	42 (31)
06Y485	LWX	7300 (14)	14.9 (32)	5.0 (1)	98 (34)	1 (1)	40 (21)
06Y928	M	7260 (15)	15.7 (26)	5.0 (1)	83 (3)	1 (1)	39 (12)
05Y552	LJ	7200 (16)	13.4 (34)	4.8 (32)	88 (22)	1 (1)	38 (2)
06Y385	M	7110 (17)	16.7 (12)	5.0 (1)	86 (19)	1 (1)	39 (7)
06Y513	L	7100 (18)	15.9 (25)	5.0 (1)	92 (28)	1 (1)	39 (12)
06Y367	SWX	7080 (19)	16.7 (13)	5.0 (1)	88 (22)	1 (1)	41 (26)
99Y529	L	7070 (20)	16.6 (14)	5.0 (1)	94 (30)	1 (1)	40 (16)
06Y506	L	7030 (21)	15.5 (29)	5.0 (1)	92 (28)	1 (1)	39 (7)
06Y240	M	7010 (22)	15.9 (24)	5.0 (1)	87 (20)	1 (1)	38 (3)
06Y220	SWX	6930 (23)	15.2 (30)	5.0 (1)	88 (22)	1 (1)	40 (19)
06Y184	MPQ	6920 (24)	17.7 (3)	5.0 (1)	84 (11)	1 (1)	41 (29)
05Y547	REX	6660 (25)	16.8 (10)	4.8 (32)	97 (33)	1 (1)	43 (34)
04Y330	MPQ	6590 (26)	16.7 (11)	5.0 (1)	84 (7)	1 (1)	37 (1)
06Y518	L	6580 (27)	15.9 (22)	5.0 (1)	95 (31)	1 (1)	39 (11)
03Y167	SPQ	6520 (28)	16.6 (16)	4.8 (34)	83 (4)	1 (1)	39 (6)
06Y265	M	6510 (29)	17.0 (8)	5.0 (1)	84 (7)	1 (1)	39 (5)
06Y199	SPQ	6500 (30)	15.6 (27)	5.0 (1)	84 (11)	3 (30)	40 (23)
06Y175	MPQ	6480 (31)	19.1 (2)	5.0 (1)	83 (4)	35 (34)	42 (32)
06Y207	SPQ	6140 (32)	15.1 (31)	5.0 (1)	85 (15)	16 (32)	38 (3)
06Y208	SPQ	6070 (33)	15.5 (28)	5.0 (29)	86 (16)	1 (1)	39 (12)
03Y151	REX	5350 (34)	19.5 (1)	4.9 (31)	95 (31)	1 (1)	40 (21)
MEAN		7070	16.4	5.0	87	3	40
CV		6	8	0.8	2.2	244.8	2.8
LSD (.05)		870		0.1	4		2

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; REX = 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. 2007 Very Early Rice Variety Test - San Joaquin

*Advanced Lines and Varieties*

Variety	Grain Type	Grain Yield	Grain	Seedling	Days to	Lodging (1-99)	Plant Height (in)
		at 14% Moisture lbs/acre	Moisture at Harvest (%)	Vigor (1-5)	50% Heading		
S102	S	10340 (1)	14.4 (14)	5.0 (1)	106 (2)	1 (1)	36 (11)
L206	L	9850 (2)	14.2 (15)	5.0 (1)	107 (3)	1 (1)	30 (1)
CM101	SWX	9650 (3)	16.4 (11)	5.0 (1)	107 (7)	1 (1)	36 (9)
05Y724	M	9480 (4)	18.5 (5)	5.0 (1)	108 (8)	1 (1)	34 (7)
M206	M	9380 (5)	17.9 (8)	5.0 (1)	107 (3)	1 (1)	35 (8)
M104	M	9050 (6)	18.0 (7)	5.0 (1)	107 (3)	1 (1)	37 (14)
05Y196	SPQ	8930 (7)	19.8 (4)	5.0 (1)	108 (8)	11 (17)	37 (13)
04Y177	SPQ	8850 (8)	15.9 (12)	5.0 (1)	106 (1)	2 (16)	34 (6)
04Y227	M	8640 (9)	16.8 (10)	5.0 (1)	107 (3)	1 (1)	38 (17)
01Y655	REX	8540 (10)	13.5 (17)	5.0 (1)	115 (14)	1 (1)	36 (9)
04Y501	REX	8040 (11)	14.9 (13)	5.0 (1)	113 (13)	1 (1)	34 (5)
L205	REX	7430 (12)	13.7 (16)	5.0 (1)	112 (12)	1 (1)	33 (3)
04Y508	L	6610 (13)	17.0 (9)	5.0 (1)	115 (15)	1 (1)	33 (4)
04Y332	MPQ	6240 (14)	23.9 (3)	5.0 (1)	116 (16)	1 (1)	37 (15)
M202	M	6130 (15)	25.6 (1)	5.0 (1)	118 (17)	1 (1)	36 (12)
05Y299	MPQ	5970 (16)	24.5 (2)	5.0 (1)	112 (11)	1 (1)	38 (16)
07Y015	LSR	4940 (17)	18.0 (6)	5.0 (1)	108 (10)	1 (1)	32 (2)
MEAN		8120	17.8	5.0	110	2	35
CV		5.4	5.1		1.4	295.8	4.4
LSD (.05)		620	1.3		2		2

*Preliminary Lines and Varieties*

06Y223	SWX	10760 (1)	20.5 (6)	5.0 (1)	108 (8)	1 (1)	38 (33)
06Y239	M	10110 (2)	18.4 (14)	5.0 (1)	107 (4)	1 (1)	37 (29)
06Y889	M	10000 (3)	17.2 (25)	5.0 (1)	107 (4)	1 (1)	35 (20)
06Y220	SWX	9720 (4)	17.9 (19)	5.0 (1)	107 (3)	1 (1)	34 (11)
06Y367	SWX	9420 (5)	19.5 (8)	5.0 (1)	111 (16)	1 (1)	38 (32)
06Y288	M	9350 (6)	18.3 (16)	5.0 (1)	109 (10)	1 (1)	38 (31)
05Y471	M	9340 (7)	17.9 (20)	5.0 (1)	105 (1)	1 (1)	34 (18)
06Y385	M	9120 (8)	18.6 (12)	5.0 (1)	115 (28)	1 (1)	35 (20)
06Y230	M	9100 (9)	18.1 (18)	5.0 (1)	108 (8)	1 (1)	36 (27)
06Y485	LWX	9070 (10)	18.7 (11)	5.0 (1)	120 (33)	1 (1)	34 (19)
06Y199	SPQ	9030 (11)	16.6 (27)	5.0 (1)	107 (4)	8 (33)	33 (7)
06Y436	M	8970 (12)	18.6 (13)	5.0 (1)	110 (14)	1 (1)	35 (25)
06Y832	M	8960 (13)	22.1 (3)	5.0 (1)	112 (21)	1 (1)	36 (26)
06Y513	L	8810 (14)	15.1 (31)	5.0 (1)	113 (23)	1 (1)	34 (16)
06Y236	M	8750 (15)	17.8 (21)	5.0 (1)	111 (16)	1 (1)	35 (24)
06Y274	M	8600 (16)	18.3 (17)	5.0 (1)	112 (18)	1 (1)	34 (12)
06Y240	M	8370 (17)	19.1 (10)	5.0 (1)	112 (18)	1 (1)	37 (28)
06Y207	SPQ	8310 (18)	14.5 (34)	5.0 (1)	106 (2)	11 (34)	31 (2)
99Y529	L	8250 (19)	16.9 (26)	5.0 (1)	119 (32)	1 (1)	34 (9)
06Y843	M	8140 (20)	18.4 (15)	5.0 (1)	110 (14)	1 (1)	35 (23)
06Y265	M	8100 (21)	17.5 (22)	5.0 (1)	116 (30)	1 (1)	33 (5)
06Y208	SPQ	8080 (22)	16.6 (28)	5.0 (1)	112 (21)	1 (1)	34 (13)
05Y552	LJ	8070 (23)	14.6 (33)	5.0 (1)	109 (11)	1 (1)	33 (4)
06Y510	LREX	7860 (24)	17.5 (23)	5.0 (1)	116 (29)	1 (1)	34 (9)
06Y928	M	7830 (25)	16.3 (29)	5.0 (1)	109 (11)	1 (1)	34 (8)
06Y518	L	7680 (26)	17.3 (24)	5.0 (1)	114 (26)	1 (1)	34 (16)
03Y167	SPQ	7430 (27)	20.7 (5)	5.0 (1)	107 (4)	1 (1)	34 (13)
06Y184	MPQ	7380 (28)	20.3 (7)	5.0 (1)	109 (11)	1 (1)	39 (34)
05Y490	L	7200 (29)	14.9 (32)	5.0 (1)	113 (23)	1 (1)	33 (5)
05Y547	LREX	6450 (30)	15.3 (30)	5.0 (1)	112 (18)	1 (1)	34 (13)
06Y506	L	6320 (31)	19.4 (9)	5.0 (1)	113 (23)	1 (1)	32 (3)
06Y175	MPQ	6210 (32)	22.1 (4)	5.0 (1)	114 (26)	1 (1)	37 (30)
04Y330	MPQ	5870 (33)	26.0 (1)	5.0 (1)	117 (31)	1 (1)	35 (20)
03Y151	LREX	1960 (34)	25.2 (2)	5.0 (1)	125 (34)	1 (1)	30 (1)
MEAN		8190	18.4	5.0	111	1	35
CV		5.5	4.7		1.4	160.8	4.1
LSD (.05)		920	1.8		3		3

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; REX = 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 (2003-2007)

Location	Year	M-103*	M-104	M-202	M-206	Calmochi			
						101	S-102	L-204*	L-205
Biggs (RES)	2003	6720	7470	7760	7950	8630	10150	9480	9370
	2004	9380	9380	9050	10210	8150	9620	10830	10350
	2005	7460	5860	7560	7970	7220	8350	8140	8920
	2006	-	7970	8960	9280	8490	9170	-	9350
	2007	-	8930	10250	11030	6740	10730	-	9550
Location Mean		7853	7922	8716	9288	7846	9604	9483	9508
San Joaquin	2003	8713	8860	8347	9299	9027	9487	8567	8253
	2004	8260	8880	8530	9110	9250	8330	8190	8050
	2005	7490	7810	7530	7550	8480	8430	7360	7450
	2006**	-	-	-	-	-	-	-	-
	2007	-	9050	6130	9380	9650	10340	-	7430
Location Mean		8154	8650	7634	8835	9102	9147	8039	7796
Sutter	2003	9749	8808	8630	8975	7688	8849	8755	9006
	2004	10110	10400	11090	10150	10750	11050	11350	10400
	2005	7040	7800	7220	7570	7090	8510	6980	7440
	2006	-	8480	8580	8780	8640	9780	-	7970
	2007	-	10680	10740	11250	11140	11100	-	10000
Location Mean		8966	9234	9252	9345	9062	9858	9028	8963
Yolo	2003	9530	9716	10230	10176	9279	9902	9399	9880
	2004	-	-	-	-	-	-	-	-
	2005	8810	8830	9750	9600	8800	9460	9030	9740
	2006	-	8020	8700	8360	7610	8730	-	8570
	2007	-	7510	7220	7350	7500	7140	-	7010
Location Mean		9170	8519	8975	8871	8297	8808	9214	8800
Loc/Years Mean		8478	8581	8682	9111	8563	9396	8916	8819
Yield % M-104		98.8	100.0	101.2	106.2	99.8	109.5	103.9	102.8
Number of Tests		11	18	18	18	18	18	11	18

\* Note: entries M103 and L204 have been discontinued in the very early tests as of the 2006 season.

\*\* Test location not planted in 2006.



Table 7. 2007 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	Butte	Yuba	Colusa							
M206	M	8850 (1)	9430 (3)	8060 (13)	7960 (1)	9770 (3)	17.3 (4)	4.9 (6)	83 (4)	23 (14)	38 (17)	
99Y529	L	8710 (2)	8960 (6)	8920 (2)	6590 (13)	9380 (10)	14.3 (17)	4.9 (6)	83 (5)	2 (3)	36 (7)	
M205	M	8590 (3)	8920 (7)	8310 (8)	7480 (2)	9490 (8)	17.7 (1)	5.0 (4)	92 (16)	10 (9)	35 (3)	
03Y559	MPQ	8560 (4)	9070 (5)	8250 (11)	7140 (5)	9960 (2)	17.4 (2)	4.9 (6)	88 (8)	20 (13)	36 (10)	
L206	L	8520 (5)	9540 (2)	8900 (3)	6520 (14)	9540 (5)	14.5 (15)	4.9 (14)	82 (3)	9 (8)	33 (1)	
05Y698	M	8510 (6)	9550 (1)	8500 (5)	6450 (15)	9100 (12)	17.3 (3)	4.9 (6)	92 (15)	7 (6)	36 (6)	
01Y655	REX	8450 (7)	9270 (4)	8390 (7)	6920 (9)	9040 (13)	14.9 (13)	4.9 (12)	93 (17)	1 (2)	37 (14)	
06Y1072	M	8350 (8)	8770 (9)	8190 (12)	7010 (7)	8770 (16)	17.3 (5)	5.0 (1)	89 (12)	32 (16)	44 (18)	
06Y333	MPQ	8310 (9)	8230 (14)	8280 (9)	7350 (3)	10380 (1)	16.9 (9)	4.9 (12)	89 (11)	18 (12)	37 (15)	
06Y599	REX	8240 (10)	8880 (8)	8430 (6)	6620 (12)	8590 (17)	14.9 (14)	4.9 (6)	88 (7)	6 (5)	35 (4)	
04Y308	MPQ	8240 (11)	8260 (13)	7860 (15)	7340 (4)	9630 (4)	17.2 (6)	5.0 (4)	89 (10)	4 (4)	36 (8)	
M208	M	8230 (12)	8490 (11)	7990 (14)	6950 (8)	7640 (18)	16.6 (10)	5.0 (3)	88 (8)	11 (10)	37 (12)	
S102	S	8130 (13)	8730 (10)	8580 (4)	6170 (17)	9220 (11)	14.3 (16)	4.9 (18)	78 (1)	39 (17)	36 (11)	
L205	LREX	8130 (14)	8420 (12)	8940 (1)	6370 (16)	9430 (9)	14.2 (18)	4.9 (6)	85 (6)	8 (7)	36 (5)	
05Y300	MPQ	8110 (15)	7800 (15)	8280 (10)	6840 (10)	9030 (15)	17.2 (7)	4.9 (16)	91 (14)	32 (15)	36 (9)	
M202	M	7660 (16)	6940 (17)	7640 (16)	7040 (6)	9540 (6)	17.0 (8)	4.9 (14)	89 (13)	15 (11)	37 (16)	
CM101	SWX	7390 (17)	6990 (16)	7350 (17)	6640 (11)	9030 (14)	15.4 (12)	4.9 (16)	80 (2)	49 (18)	37 (13)	
03Y151	REX	6330 (18)	5380 (18)	7140 (18)	5150 (18)	9500 (7)	16.4 (11)	5.0 (1)	97 (18)	1 (1)	34 (2)	
MEAN		8150	8420	8220	6810	9280	16	5.0	88	12	36	
CV		7.3	7.7	4.3	12.2	4.9	5.7	1.3	1.2	100.4	3.4	
LSD (.05)		440	1360	500	1180	650	0.7	0	1	9	1	

*Preliminary Lines and Varieties*

06Y445	M	9020 (1)	9370 (4)	7980 (16)	8430 (1)	10280 (4)	16.6 (9)	4.9 (28)	85 (11)	46 (35)	37 (32)
06Y916	M	8960 (2)	8870 (13)	8780 (1)	8000 (3)	10190 (5)	15.8 (19)	4.9 (20)	83 (4)	35 (33)	35 (9)
06Y400	M	8760 (3)	8770 (16)	8320 (4)	7930 (5)	10040 (7)	16.3 (11)	4.9 (28)	85 (12)	17 (17)	36 (25)
06Y575	REX	8750 (4)	8880 (11)	8110 (10)	7420 (11)	10590 (1)	15.0 (28)	5.0 (3)	86 (15)	1 (1)	38 (36)
06Y675	M	8710 (5)	8880 (12)	8760 (2)	7260 (15)	9940 (9)	16.9 (5)	4.9 (33)	91 (35)	7 (14)	36 (23)
06Y395	M	8690 (6)	9030 (8)	8100 (12)	7510 (10)	10130 (6)	16.0 (18)	4.9 (31)	82 (2)	29 (32)	38 (33)
06Y950	M	8680 (7)	8910 (10)	8220 (6)	7890 (6)	9710 (11)	16.0 (15)	5.0 (12)	83 (8)	25 (28)	35 (14)
03Y496	REX	8650 (8)	9530 (3)	7360 (30)	7260 (16)	10470 (2)	15.8 (20)	4.8 (35)	88 (28)	1 (1)	37 (27)
06Y467	M	8590 (9)	8030 (21)	8260 (5)	7790 (7)	10300 (3)	16.7 (7)	4.9 (24)	87 (19)	21 (23)	37 (30)
01Y501	LSR	8580 (10)	9300 (5)	7680 (22)	7950 (4)	9370 (18)	15.1 (27)	4.9 (20)	83 (6)	1 (1)	35 (13)
06Y965	M	8560 (11)	9130 (7)	8110 (11)	7620 (8)	9390 (17)	15.4 (25)	5.0 (4)	83 (5)	3 (11)	36 (19)
06Y685	M	8540 (12)	8940 (9)	8200 (7)	7400 (12)	9620 (12)	16.8 (6)	5.0 (7)	89 (30)	12 (16)	36 (18)
06Y667	M	8490 (13)	8080 (19)	7770 (19)	8070 (2)	10020 (8)	16.2 (13)	5.0 (12)	87 (22)	6 (13)	36 (21)
06Y475	M	8460 (14)	8870 (14)	7940 (18)	7240 (17)	9780 (10)	16.2 (14)	5.0 (12)	81 (1)	20 (22)	37 (28)
05Y165	SPQ	8450 (15)	10200 (1)	8140 (9)	5880 (33)	9570 (14)	16.7 (8)	4.9 (24)	87 (22)	19 (20)	35 (12)
06Y589	L	8190 (16)	9140 (6)	8030 (13)	6620 (22)	8980 (25)	14.9 (30)	5.0 (12)	87 (25)	1 (1)	33 (2)
06Y701	LSR	8180 (17)	9660 (2)	7450 (28)	6700 (21)	8910 (27)	16.0 (16)	4.9 (34)	88 (29)	1 (1)	34 (5)
05Y566	L	8130 (18)	8710 (17)	7660 (23)	6590 (23)	9570 (13)	14.9 (29)	4.9 (32)	86 (17)	1 (1)	35 (10)
06Y332	MPQ	8110 (19)	8000 (22)	8010 (14)	7380 (13)	9040 (23)	16.0 (17)	4.9 (20)	88 (27)	24 (27)	37 (30)
05Y625	L	7990 (20)	8420 (18)	8010 (15)	6540 (24)	8990 (24)	15.3 (26)	5.0 (4)	87 (18)	1 (1)	35 (11)
06Y857	M	7960 (21)	8810 (15)	7490 (27)	6210 (27)	9340 (19)	16.9 (4)	5.0 (12)	86 (16)	5 (12)	37 (26)
06Y356	SPQ	7880 (22)	7490 (25)	7690 (21)	6780 (20)	9550 (16)	14.6 (31)	5.0 (7)	82 (3)	24 (25)	34 (6)
06Y881	M	7850 (23)	7320 (27)	7610 (26)	6920 (19)	9560 (15)	15.5 (24)	4.9 (24)	85 (13)	8 (15)	36 (16)
6531	M	7800 (24)	6840 (29)	8160 (8)	7320 (14)	8900 (28)	15.7 (21)	4.9 (24)	87 (19)	28 (31)	38 (34)
06Y629	MPQ	7690 (25)	7670 (23)	7770 (20)	6460 (25)	8880 (29)	16.3 (10)	5.0 (7)	89 (33)	24 (26)	36 (24)
06Y334	MPQ	7550 (26)	6750 (30)	6570 (36)	7540 (9)	9330 (20)	17.4 (2)	5.0 (7)	89 (31)	17 (17)	36 (22)
05Y352	MPQ	7540 (27)	7080 (28)	7620 (25)	6390 (26)	9090 (22)	16.9 (3)	4.9 (28)	84 (9)	21 (24)	37 (29)
06Y202	SPQ	7520 (28)	7330 (26)	7950 (17)	5980 (30)	8820 (30)	15.7 (22)	5.0 (12)	83 (7)	39 (34)	38 (34)
05Y202	MPQ	7440 (29)	6500 (32)	7350 (31)	6940 (18)	8980 (26)	16.3 (12)	4.9 (20)	88 (26)	19 (19)	36 (20)
07Y110	LIM	7390 (30)	6420 (33)	8450 (3)	6030 (28)	8680 (31)	14.0 (35)	5.0 (12)	85 (10)	1 (1)	36 (15)
06Y639	SPQ	7350 (31)	7560 (24)	7340 (32)	6000 (29)	8480 (32)	17.6 (1)	5.0 (7)	85 (14)	57 (36)	36 (17)
06Y545	BAS	7160 (32)	8050 (20)	6900 (34)	5950 (31)	7720 (34)	15.5 (23)	5.0 (1)	89 (32)	1 (1)	33 (3)
CH201	SPQ	6960 (33)	6230 (34)	7430 (29)	5910 (32)	8270 (33)	14.1 (33)	5.0 (4)	87 (22)	28 (30)	35 (7)
CT201	BAS	6750 (34)	6640 (31)	7640 (24)	5550 (35)	7190 (35)	14.0 (34)	5.0 (1)	90 (34)	1 (1)	34 (4)
06Y707	JAS	6460 (35)	5160 (36)	6680 (35)	4790 (36)	9210 (21)	14.4 (32)	4.6 (36)	94 (36)	27 (29)	35 (8)
CT202	BAS	6320 (36)	6080 (35)	7160 (33)	5800 (34)	6260 (36)	13.7 (36)	5.0 (12)	87 (21)	19 (20)	33 (1)
MEAN		8000	8070	7800	6890	9250	15.8	4.9	86	16	36
CV		7.2	8.9	5	10.2	4.6	4.6	1.6	1.8	59.6	3.9
LSD (.0 5)		570	1460	790	1430	860	0.7	0.1	2	10	1

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; JAS = Jasmine; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 8. 2007 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)
05Y698	M	9550 (1)	17.2 (12)	4.8 (9)	90 (15)	25 (6)	36 (12)
L206	L	9540 (2)	16.8 (15)	4.7 (14)	77 (3)	28 (7)	33 (1)
M206	M	9430 (3)	17.4 (11)	4.8 (9)	79 (4)	85 (14)	37 (14)
01Y655	REX	9270 (4)	17.8 (6)	4.7 (14)	90 (15)	3 (3)	37 (16)
03Y559	MPQ	9070 (5)	17.7 (9)	4.8 (5)	83 (5)	75 (13)	34 (4)
99Y529	L	8960 (6)	16.9 (14)	4.8 (9)	84 (6)	0 (1)	34 (2)
M205	M	8920 (7)	18.2 (3)	4.9 (3)	88 (11)	35 (10)	37 (13)
06Y599	REX	8880 (8)	17.0 (13)	4.8 (9)	88 (12)	20 (5)	36 (8)
06Y1072	M	8770 (9)	18.4 (2)	5.0 (1)	88 (12)	88 (16)	43 (18)
S102	S	8730 (10)	14.9 (18)	4.7 (17)	76 (1)	99 (17)	34 (3)
M208	M	8490 (11)	17.8 (6)	4.9 (3)	86 (8)	30 (8)	35 (7)
L205	REX	8420 (12)	16.2 (17)	4.8 (5)	85 (7)	30 (8)	36 (8)
04Y308	MPQ	8260 (13)	17.8 (6)	4.8 (5)	87 (9)	8 (4)	35 (6)
06Y333	MPQ	8230 (14)	17.7 (10)	4.7 (14)	87 (9)	68 (12)	37 (14)
05Y300	MPQ	7800 (15)	18.2 (3)	4.7 (17)	89 (14)	85 (14)	37 (16)
CM101	SWX	6990 (16)	16.4 (16)	4.8 (5)	76 (1)	99 (17)	36 (10)
M202	M	6940 (17)	17.9 (5)	4.8 (9)	91 (17)	53 (11)	36 (10)
03Y151	REX	5380 (18)	19.2 (1)	5.0 (1)	96 (18)	0 (1)	34 (5)
MEAN		8420	17.4	4.8	85	46	36
CV		7.7	3	3.2	2.3	38.8	3.7
LSD (.05)		1360	1.1		4	38	3

*Preliminary Lines and Varieties*

05Y165	SPQ	10200 (1)	18.0 (3)	4.9 (5)	84 (14)	70 (21)	35 (11)
06Y701	LSR	9660 (2)	18.0 (3)	4.6 (34)	89 (35)	0 (1)	34 (6)
03Y496	REX	9530 (3)	18.5 (2)	4.4 (35)	87 (29)	0 (1)	37 (30)
06Y445	M	9370 (4)	17.4 (17)	4.8 (16)	82 (8)	97 (33)	38 (32)
01Y501	LSR	9300 (5)	17.9 (5)	4.8 (24)	83 (11)	0 (1)	36 (21)
06Y589	L	9140 (6)	17.2 (19)	4.8 (16)	86 (26)	0 (1)	32 (1)
06Y965	M	9130 (7)	16.6 (32)	4.9 (5)	79 (4)	8 (11)	35 (13)
06Y395	M	9030 (8)	17.2 (19)	4.6 (33)	79 (4)	93 (27)	38 (35)
06Y685	M	8940 (9)	17.6 (14)	4.9 (10)	85 (19)	45 (17)	36 (21)
06Y950	M	8910 (10)	16.8 (28)	4.9 (10)	79 (4)	94 (29)	35 (11)
06Y575	REX	8880 (11)	17.4 (17)	5.0 (1)	86 (24)	0 (1)	37 (31)
06Y675	M	8880 (12)	17.8 (8)	4.7 (32)	89 (34)	25 (14)	36 (19)
06Y916	M	8870 (13)	17.2 (22)	4.8 (24)	78 (1)	95 (32)	35 (10)
06Y475	M	8870 (14)	17.6 (14)	4.8 (16)	79 (3)	73 (22)	38 (34)
06Y857	M	8810 (15)	17.6 (12)	4.8 (16)	85 (19)	18 (12)	35 (9)
06Y400	M	8770 (16)	17.2 (19)	4.7 (29)	83 (11)	65 (18)	36 (24)
05Y566	L	8710 (17)	17.0 (23)	4.8 (16)	85 (22)	0 (1)	34 (6)
05Y625	L	8420 (18)	17.6 (12)	4.9 (5)	87 (32)	0 (1)	34 (6)
06Y667	M	8080 (19)	17.5 (16)	4.8 (16)	86 (24)	20 (13)	37 (27)
06Y545	BAS	8050 (20)	17.9 (7)	5.0 (1)	84 (15)	0 (1)	33 (2)
06Y467	M	8030 (21)	17.7 (10)	4.8 (24)	83 (11)	80 (23)	36 (17)
06Y332	MPQ	8000 (22)	16.8 (28)	4.8 (24)	84 (15)	94 (29)	36 (23)
06Y629	MPQ	7670 (23)	17.9 (5)	4.9 (10)	87 (32)	93 (27)	36 (24)
06Y639	SPQ	7560 (24)	20.0 (1)	4.9 (10)	82 (8)	100 (36)	36 (24)
06Y356	SPQ	7490 (25)	15.5 (36)	4.9 (5)	81 (7)	88 (26)	34 (5)
06Y202	SPQ	7330 (26)	16.6 (32)	4.9 (5)	83 (10)	98 (34)	39 (36)
06Y881	M	7320 (27)	16.7 (31)	4.7 (29)	85 (19)	30 (15)	36 (18)
05Y352	MPQ	7080 (28)	17.7 (10)	4.8 (24)	78 (1)	80 (23)	37 (29)
6531	M	6840 (29)	17.0 (23)	4.7 (29)	87 (29)	80 (23)	38 (32)
06Y334	MPQ	6750 (30)	16.9 (25)	4.9 (10)	87 (29)	65 (18)	37 (28)
CT201	BAS	6640 (31)	16.8 (28)	5.0 (1)	84 (15)	0 (1)	33 (4)
05Y202	MPQ	6500 (32)	17.8 (8)	4.8 (16)	85 (22)	35 (16)	35 (13)
07Y110	LIM	6420 (33)	16.1 (35)	4.8 (16)	86 (26)	0 (1)	35 (15)
CH201	SPQ	6230 (34)	16.6 (32)	5.0 (1)	86 (26)	98 (34)	36 (19)
CT202	BAS	6080 (35)	16.9 (25)	4.9 (10)	84 (15)	68 (20)	33 (3)
06Y707	JAS	5160 (36)	16.9 (27)	4.3 (36)	92 (36)	94 (29)	35 (16)
MEAN		8070	17.3	4.8	84	50	36
CV		8.9	3.5	2.4	2.9	22	4
LSD (.05)		1460	1.2	0.2	5	22	3

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; JAS = Jasmine; 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 9. 2007 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)
L205	REX	8940 (1)	14.1 (18)	5.0 (1)	87 (15)	1 (1)	37 (5)
99Y529	L	8920 (2)	15.8 (16)	5.0 (1)	86 (13)	5 (13)	39 (17)
L206	L	8900 (3)	15.3 (17)	5.0 (1)	80 (1)	8 (14)	36 (2)
S102	S	8580 (4)	16.3 (15)	5.0 (1)	80 (1)	4 (12)	38 (13)
05Y698	M	8500 (5)	18.0 (4)	5.0 (1)	86 (12)	1 (1)	36 (3)
06Y599	REX	8430 (6)	17.0 (10)	5.0 (1)	87 (16)	1 (1)	37 (7)
01Y655	REX	8390 (7)	17.0 (12)	5.0 (1)	96 (18)	1 (1)	38 (12)
M205	M	8310 (8)	17.5 (6)	5.0 (1)	86 (13)	1 (1)	36 (1)
06Y333	MPQ	8280 (9)	17.0 (11)	5.0 (1)	85 (10)	2 (9)	38 (8)
05Y300	MPQ	8280 (10)	17.5 (7)	5.0 (1)	84 (7)	35 (16)	37 (5)
03Y559	MPQ	8250 (11)	18.7 (3)	5.0 (1)	82 (5)	1 (1)	38 (8)
06Y1072	M	8190 (12)	17.6 (5)	5.0 (1)	84 (8)	37 (17)	45 (18)
M206	M	8060 (13)	18.9 (2)	5.0 (1)	80 (1)	3 (11)	38 (13)
M208	M	7990 (14)	16.7 (13)	5.0 (1)	81 (4)	11 (15)	39 (16)
04Y308	MPQ	7860 (15)	17.1 (9)	5.0 (1)	82 (5)	3 (10)	38 (8)
M202	M	7640 (16)	16.6 (14)	5.0 (1)	85 (10)	1 (1)	39 (15)
CM101	SWX	7350 (17)	19.5 (1)	5.0 (18)	84 (8)	40 (18)	38 (8)
03Y151	REX	7140 (18)	17.3 (8)	5.0 (1)	92 (17)	1 (1)	36 (4)
MEAN		8220	17.1	5.0	85	9	38
CV		4.3	7.3	0.2	0.9	197.8	2.8
LSD (.05)		500	1.8		1	24	2

*Preliminary Lines and Varieties*

06Y916	M	8780 (1)	15.7 (24)	5.0 (1)	81 (8)	40 (35)	36 (10)
06Y675	M	8760 (2)	17.4 (10)	5.0 (1)	86 (27)	2 (25)	37 (23)
07Y110	LIM	8450 (3)	15.2 (28)	5.0 (1)	85 (23)	1 (1)	36 (11)
06Y400	M	8320 (4)	16.7 (18)	5.0 (1)	81 (9)	1 (1)	36 (8)
06Y467	M	8260 (5)	16.7 (19)	5.0 (28)	83 (15)	1 (1)	38 (30)
06Y950	M	8220 (6)	15.6 (25)	5.0 (1)	80 (3)	4 (27)	37 (13)
06Y685	M	8200 (7)	16.9 (15)	5.0 (1)	85 (21)	1 (1)	35 (6)
6531	M	8160 (8)	13.9 (33)	5.0 (1)	80 (3)	1 (1)	39 (34)
05Y165	SPQ	8140 (9)	17.1 (14)	4.8 (35)	84 (20)	1 (1)	37 (13)
06Y575	REX	8110 (10)	17.1 (13)	5.0 (1)	89 (31)	1 (1)	39 (35)
06Y965	M	8110 (11)	14.8 (31)	5.0 (1)	80 (3)	1 (1)	37 (13)
06Y395	M	8100 (12)	16.2 (21)	5.0 (1)	79 (1)	8 (31)	37 (25)
06Y589	L	8030 (13)	16.8 (17)	5.0 (1)	89 (30)	1 (1)	35 (5)
06Y332	MPQ	8010 (14)	15.2 (29)	5.0 (1)	83 (17)	1 (1)	38 (27)
05Y625	L	8010 (15)	17.9 (5)	5.0 (1)	90 (32)	1 (1)	37 (22)
06Y445	M	7980 (16)	17.3 (11)	5.0 (1)	82 (14)	16 (32)	37 (23)
06Y202	SPQ	7950 (17)	16.9 (16)	5.0 (1)	80 (3)	28 (33)	39 (36)
06Y475	M	7940 (18)	15.8 (23)	5.0 (1)	80 (2)	1 (1)	37 (17)
06Y667	M	7770 (19)	15.4 (27)	5.0 (1)	83 (15)	1 (1)	38 (30)
06Y629	MPQ	7770 (20)	15.6 (26)	5.0 (1)	85 (21)	1 (1)	37 (17)
06Y356	SPQ	7690 (21)	17.8 (6)	5.0 (28)	82 (12)	5 (28)	34 (1)
01Y501	LSR	7680 (22)	17.5 (9)	5.0 (1)	85 (23)	1 (1)	36 (11)
05Y566	L	7660 (23)	17.5 (8)	5.0 (1)	87 (29)	1 (1)	38 (27)
CT201	LB	7640 (24)	13.4 (35)	5.0 (1)	91 (33)	1 (1)	35 (4)
05Y352	MPQ	7620 (25)	18.1 (3)	4.9 (32)	83 (17)	3 (26)	37 (26)
06Y881	M	7610 (26)	14.2 (32)	5.0 (1)	81 (9)	1 (1)	37 (13)
06Y857	M	7490 (27)	17.2 (12)	5.0 (1)	81 (9)	1 (1)	38 (27)
06Y701	LSR	7450 (28)	17.7 (7)	4.9 (32)	85 (23)	1 (1)	36 (8)
CH201	SPQ	7430 (29)	13.4 (34)	4.9 (32)	85 (23)	1 (1)	35 (7)
03Y496	REX	7360 (30)	18.2 (2)	5.0 (28)	94 (35)	1 (1)	38 (30)
05Y202	MPQ	7350 (31)	15.1 (30)	5.0 (28)	80 (3)	31 (34)	38 (33)
06Y639	SPQ	7340 (32)	17.9 (4)	5.0 (1)	83 (17)	55 (36)	37 (17)
CT202	BAS	7160 (33)	12.6 (36)	5.0 (1)	86 (27)	6 (29)	37 (17)
06Y545	BAS	6900 (34)	16.7 (20)	5.0 (1)	94 (35)	1 (1)	35 (2)
06Y707	JAS	6680 (35)	16.1 (22)	4.3 (36)	92 (34)	6 (29)	35 (2)
06Y334	MPQ	6570 (36)	18.7 (1)	5.0 (1)	82 (12)	1 (1)	37 (17)
MEAN		7800	16.3	5.0	84	6	37
CV		5	7	1.4	1	200	4.3
LSD (.05)		790	2.3	0.1	2	25	

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; JAS = Jasmine; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 10. 2007 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)
M206	M	7960 (1)	16.3 (3)	5.0 (1)	88 (5)	1 (1)	37 (14)
M205	M	7480 (2)	16.6 (1)	5.0 (1)	99 (17)	1 (1)	34 (4)
06Y333	MPQ	7350 (3)	15.7 (8)	5.0 (1)	94 (9)	1 (1)	36 (13)
04Y308	MPQ	7340 (4)	15.9 (7)	5.0 (1)	95 (10)	6 (15)	36 (10)
03Y559	MPQ	7140 (5)	15.4 (9)	5.0 (1)	96 (12)	3 (14)	36 (12)
M202	M	7040 (6)	16.1 (5)	5.0 (1)	94 (8)	6 (15)	37 (16)
06Y1072	M	7010 (7)	16.2 (4)	5.0 (1)	96 (14)	1 (1)	43 (18)
M208	M	6950 (8)	15.3 (10)	5.0 (1)	97 (16)	1 (1)	35 (9)
01Y655	REX	6920 (9)	12.6 (16)	5.0 (1)	97 (15)	1 (1)	35 (7)
05Y300	MPQ	6840 (10)	16.0 (6)	5.0 (1)	96 (13)	6 (15)	36 (11)
CM101	SWX	6640 (11)	11.9 (18)	5.0 (1)	82 (2)	2 (13)	37 (16)
06Y599	REX	6620 (12)	13.3 (14)	5.0 (1)	88 (5)	1 (1)	33 (2)
99Y529	L	6590 (13)	12.6 (15)	5.0 (1)	82 (2)	1 (1)	34 (6)
L206	L	6520 (14)	13.5 (13)	5.0 (1)	89 (7)	1 (1)	31 (1)
05Y698	M	6450 (15)	16.4 (2)	5.0 (1)	95 (11)	1 (1)	35 (8)
L205	REX	6370 (16)	13.6 (12)	5.0 (1)	85 (4)	1 (1)	34 (5)
S102	S	6170 (17)	12.2 (17)	5.0 (1)	81 (1)	7 (18)	37 (14)
03Y151	REX	5150 (18)	14.4 (11)	5.0 (1)	102 (18)	1 (1)	33 (3)
MEAN		6810	14.7	5.0	92	2	35
CV		12.2	6.8		0.9	177.8	4.3
LSD (.05)		1180	1.4		1		2

*Preliminary Lines and Varieties*

06Y445	M	8430 (1)	14.8 (16)	5.0 (1)	88 (10)	1 (1)	37 (34)
06Y667	M	8070 (2)	14.7 (18)	5.0 (1)	89 (14)	1 (1)	34 (10)
06Y916	M	8000 (3)	14.9 (13)	5.0 (1)	89 (14)	1 (1)	34 (12)
01Y501	LSR	7950 (4)	11.9 (35)	5.0 (1)	83 (1)	1 (1)	34 (5)
06Y400	M	7930 (5)	14.3 (21)	5.0 (33)	88 (10)	1 (1)	36 (23)
06Y950	M	7890 (6)	15.2 (5)	5.0 (1)	91 (18)	1 (1)	34 (10)
06Y467	M	7790 (7)	15.1 (10)	5.0 (1)	91 (18)	1 (1)	37 (30)
06Y965	M	7620 (8)	14.7 (19)	5.0 (1)	88 (9)	1 (1)	36 (22)
06Y334	MPQ	7540 (9)	15.7 (2)	5.0 (1)	95 (33)	1 (1)	36 (23)
06Y395	M	7510 (10)	14.9 (14)	5.0 (1)	85 (5)	1 (1)	37 (30)
06Y575	REX	7420 (11)	12.7 (27)	5.0 (1)	84 (2)	1 (1)	36 (25)
06Y685	M	7400 (12)	15.4 (4)	5.0 (1)	92 (26)	1 (1)	37 (34)
06Y332	MPQ	7380 (13)	15.2 (7)	5.0 (1)	94 (32)	1 (1)	36 (25)
6531	M	7320 (14)	15.4 (3)	5.0 (1)	94 (31)	1 (1)	35 (20)
06Y675	M	7260 (15)	15.1 (11)	5.0 (1)	96 (34)	1 (1)	37 (28)
03Y496	REX	7260 (16)	12.4 (31)	5.0 (33)	87 (8)	1 (1)	34 (8)
06Y475	M	7240 (17)	14.8 (17)	5.0 (1)	85 (4)	1 (1)	35 (17)
05Y202	MPQ	6940 (18)	15.2 (6)	5.0 (1)	93 (29)	8 (35)	35 (21)
06Y881	M	6920 (19)	14.9 (12)	5.0 (1)	89 (16)	1 (1)	36 (25)
06Y356	SPQ	6780 (20)	11.9 (36)	5.0 (1)	87 (7)	1 (1)	34 (5)
06Y701	LSR	6700 (21)	13.9 (22)	5.0 (1)	90 (17)	1 (1)	32 (2)
06Y589	L	6620 (22)	12.2 (32)	5.0 (1)	88 (10)	1 (1)	33 (4)
05Y566	L	6590 (23)	12.4 (28)	4.9 (35)	88 (10)	1 (1)	35 (16)
05Y625	L	6540 (24)	12.4 (30)	5.0 (1)	84 (2)	1 (1)	35 (15)
06Y629	MPQ	6460 (25)	14.6 (20)	5.0 (1)	93 (29)	1 (1)	37 (30)
05Y352	MPQ	6390 (26)	15.2 (8)	5.0 (1)	91 (18)	1 (1)	37 (30)
06Y857	M	6210 (27)	16.2 (1)	5.0 (1)	92 (26)	1 (1)	37 (34)
07Y110	LIM	6030 (28)	12.1 (34)	5.0 (1)	85 (5)	1 (1)	35 (19)
06Y639	SPQ	6000 (29)	15.1 (9)	5.0 (1)	91 (22)	3 (33)	34 (9)
06Y202	SPQ	5980 (30)	13.9 (23)	4.9 (35)	91 (18)	1 (1)	37 (29)
06Y545	BAS	5950 (31)	13.1 (25)	5.0 (1)	92 (25)	1 (1)	32 (3)
CH201	SPQ	5910 (32)	12.8 (26)	5.0 (1)	91 (22)	11 (36)	34 (12)
05Y165	SPQ	5880 (33)	14.8 (15)	5.0 (1)	93 (28)	3 (33)	35 (18)
CT202	BAS	5800 (34)	12.2 (33)	5.0 (1)	91 (22)	1 (1)	30 (1)
CT201	BAS	5550 (35)	12.4 (29)	5.0 (1)	96 (35)	1 (1)	34 (12)
06Y707	JAS	4790 (36)	13.1 (24)	5.0 (1)	97 (36)	1 (1)	34 (5)
MEAN		6890	14	5.0	90	2	35
CV		10.2	3.9	0.7	1.6	156.1	3.7
LSD (.05)		1430	1.1		3		3

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; JAS= Jasmine; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 11. 2007 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)
99Y529	L	10380 (1)	12.0 (18)	5.0 (1)	82 (3)	1 (1)	37 (15)
M206	M	9960 (2)	16.8 (9)	5.0 (1)	84 (5)	1 (1)	39 (17)
03Y559	MPQ	9770 (3)	17.7 (4)	5.0 (13)	90 (13)	1 (1)	37 (14)
M205	M	9630 (4)	18.4 (1)	5.0 (13)	97 (16)	1 (1)	35 (3)
05Y698	M	9540 (5)	17.8 (3)	5.0 (1)	97 (16)	1 (1)	35 (6)
05Y300	MPQ	9540 (6)	17.1 (7)	5.0 (1)	94 (15)	1 (1)	35 (4)
M208	M	9500 (7)	16.7 (10)	5.0 (1)	87 (7)	1 (1)	37 (11)
04Y308	MPQ	9490 (8)	18.2 (2)	5.0 (1)	91 (14)	1 (1)	36 (7)
06Y1072	M	9430 (9)	17.0 (8)	5.0 (1)	88 (9)	3 (16)	46 (18)
06Y333	MPQ	9380 (10)	17.2 (6)	5.0 (1)	90 (12)	1 (1)	37 (13)
01Y655	REX	9220 (11)	12.2 (16)	5.0 (1)	88 (10)	1 (1)	37 (16)
L206	L	9100 (12)	12.5 (15)	5.0 (12)	84 (4)	1 (1)	34 (2)
S102	S	9040 (13)	13.9 (12)	5.0 (13)	77 (1)	46 (17)	37 (11)
06Y599	REX	9030 (14)	12.2 (17)	5.0 (1)	87 (7)	1 (1)	35 (5)
M202	M	9030 (15)	17.6 (5)	4.9 (17)	89 (11)	1 (1)	36 (9)
L205	REX	8770 (16)	12.8 (14)	5.0 (13)	85 (6)	1 (1)	36 (7)
CM101	SWX	8590 (17)	13.9 (13)	4.9 (18)	80 (2)	55 (18)	36 (10)
03Y151	REX	7640 (18)	14.7 (11)	5.0 (1)	97 (16)	1 (1)	33 (1)
MEAN		9280	15.5	5.0	88	7	37
CV		4.9	2.2	1.4	1.2	89.7	3
LSD (.05)		650	0.5		1	8	2

*Preliminary Lines and Varieties*

06Y575	REX	10590 (1)	12.9 (33)	5.0 (30)	86 (12)	1 (1)	39 (36)
03Y496	REX	10470 (2)	14.3 (25)	5.0 (1)	86 (16)	1 (1)	38 (34)
06Y467	M	10300 (3)	17.2 (6)	5.0 (1)	91 (28)	1 (1)	37 (29)
06Y445	M	10280 (4)	16.9 (10)	4.9 (33)	87 (17)	70 (35)	38 (30)
06Y916	M	10190 (5)	15.6 (21)	5.0 (1)	85 (9)	3 (29)	35 (9)
06Y395	M	10130 (6)	15.7 (19)	5.0 (1)	84 (6)	16 (32)	38 (30)
06Y400	M	10040 (7)	16.9 (9)	5.0 (1)	88 (24)	1 (1)	37 (28)
06Y667	M	10020 (8)	17.4 (3)	5.0 (1)	93 (32)	1 (1)	36 (21)
06Y675	M	9940 (9)	17.3 (5)	4.9 (33)	92 (30)	1 (1)	35 (18)
06Y475	M	9780 (10)	16.7 (14)	5.0 (1)	81 (3)	7 (31)	38 (30)
06Y950	M	9710 (11)	16.5 (17)	5.0 (30)	84 (6)	1 (1)	36 (20)
06Y685	M	9620 (12)	17.6 (2)	5.0 (1)	93 (33)	1 (1)	35 (11)
05Y566	L	9570 (13)	12.7 (34)	4.9 (33)	86 (12)	1 (1)	34 (5)
05Y165	SPQ	9570 (14)	16.7 (12)	5.0 (1)	89 (25)	1 (1)	34 (6)
06Y881	M	9560 (15)	16.0 (18)	5.0 (1)	86 (12)	1 (1)	35 (11)
06Y356	SPQ	9550 (16)	13.2 (31)	5.0 (1)	80 (1)	1 (1)	36 (21)
06Y965	M	9390 (17)	15.7 (20)	5.0 (1)	85 (10)	1 (1)	37 (27)
01Y501	LSR	9370 (18)	13.1 (32)	5.0 (1)	82 (4)	1 (1)	35 (11)
06Y857	M	9340 (19)	16.7 (16)	5.0 (1)	87 (18)	1 (1)	37 (26)
06Y334	MPQ	9330 (20)	18.3 (1)	5.0 (1)	93 (33)	1 (1)	35 (16)
06Y707	JAS	9210 (21)	11.7 (36)	4.9 (33)	95 (36)	6 (30)	35 (17)
05Y352	MPQ	9090 (22)	16.7 (15)	5.0 (1)	84 (6)	1 (1)	36 (23)
06Y332	MPQ	9040 (23)	16.8 (11)	5.0 (1)	91 (28)	1 (1)	38 (33)
05Y625	L	8990 (24)	13.4 (28)	5.0 (1)	86 (12)	1 (1)	35 (15)
06Y589	L	8980 (25)	13.3 (29)	5.0 (1)	87 (18)	1 (1)	33 (3)
05Y202	MPQ	8980 (26)	17.2 (6)	5.0 (1)	92 (30)	1 (1)	35 (18)
06Y701	LSR	8910 (27)	14.5 (23)	5.0 (1)	90 (27)	1 (1)	34 (8)
6531	M	8900 (28)	16.7 (13)	5.0 (1)	87 (18)	30 (33)	39 (35)
06Y629	MPQ	8880 (29)	17.1 (8)	5.0 (1)	93 (33)	1 (1)	35 (10)
06Y202	SPQ	8820 (30)	15.4 (22)	5.0 (1)	80 (1)	31 (34)	35 (11)
07Y110	LIM	8680 (31)	12.7 (35)	5.0 (1)	82 (5)	1 (1)	36 (23)
06Y639	SPQ	8480 (32)	17.3 (4)	5.0 (1)	85 (10)	70 (35)	36 (23)
CH201	SPQ	8270 (33)	13.8 (26)	5.0 (1)	87 (18)	1 (1)	33 (2)
06Y545	BAS	7720 (34)	14.5 (24)	5.0 (1)	87 (18)	1 (1)	34 (6)
CT201	BAS	7190 (35)	13.6 (27)	5.0 (1)	89 (25)	1 (1)	33 (4)
CT202	BAS	6260 (36)	13.2 (30)	5.0 (30)	87 (18)	1 (1)	31 (1)
MEAN		9250	15.4	5.0	87	7	36
CV		4.6	2.8	1.5	1.1	132.9	3.5
LSD (.05)		860	0.9		2	19	3

S = short; M = medium; L = long; PQ = premium quality; BAS = Basmati; WX = waxy; REX = Newrex; JAS= Jasmine; SR = stem rot resistant.

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

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

Numbers in parentheses indicate relative rank in column.

Table 12. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2003-2007)

Location	Year	Calhikari					Calmati	
		201	M-202	M-204	M-205	M-206	201	L-205
Biggs (RES)	2003	8310	8530	9280	9860	8320	7910	9290
	2004	8120	9500	9590	10270	9650	8500	9810
	2005	7740	7350	7560	7980	7890	6900	8760
	2006	8650	9000	-	9250	9560	7480	9280
	2007	6230	6940	-	8920	9430	6960	8420
Location Mean		7810	8264	8810	9256	8970	7550	9112
Butte	2003	6828	8294	8907	9257	8808	6379	8283
	2004	8200	8990	8800	9490	8800	7380	8060
	2005	-	-	-	-	-	-	-
	2006	6930	7970	-	8820	8080	7230	8090
Glenn	2007	7430	7640	-	8310	8060	7640	8940
Location Mean		7347	8223	8853	8969	8437	7157	8343
Colusa	2003	7762	9205	9383	10010	8389	7981	8713
	2004	9570	10330	10830	10750	10200	8440	10450
	2005	7580	8030	8840	9330	8160	7330	8570
	2006	8530	9970	-	10720	9300	7590	8660
	2007	8270	9540	-	9490	9770	7190	9430
Location Mean		8342	9415	9684	10060	9164	7706	9165
Yuba	2003	8389	8305	8190	9027	8504	7186	7897
	2004	8240	9850	9050	9120	9960	6720	8510
	2005	7470	7100	7950	8150	7670	7110	7490
	2006	-	-	-	-	-	-	-
	2007	5910	7040	-	7480	7960	5550	6370
Location Mean		7502	8074	8397	8444	8524	6642	7567
Loc/Years Mean		7787	6801	8944	9235	8806	7304	8612
Yield % M-202		114.5	100	131.5	135.8	129.5	107.4	126.6
Number of Tests		18	18	11	18	18	18	18

Table 13. 2007 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 (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
		lbs/acre		Biggs	Glenn	Sutter					
05Y657	SSR	10410 (1)		11120 (1)	10340 (2)	9790 (7)	18.8 (4)	4.8 (12)	90 (8)	2 (4)	40
M205	M	10270 (2)		10080 (5)	10400 (1)	10320 (2)	18.6 (6)	4.9 (8)	92 (11)	17 (9)	38
99Y529	L	10260 (3)		10160 (4)	10190 (4)	10430 (1)	15.0 (12)	4.9 (10)	87 (4)	3 (5)	38
05Y343	SWX	10130 (4)		10200 (3)	10240 (3)	9950 (4)	19.5 (2)	4.9 (9)	88 (5)	25 (12)	38
L206	L	9880 (5)		10390 (2)	9670 (6)	9580 (8)	14.4 (13)	4.8 (13)	82 (1)	7 (7)	34
04Y706	L	9630 (6)		9930 (6)	9830 (5)	9130 (11)	16.8 (10)	4.9 (11)	92 (10)	2 (3)	37
05Y386	M	9540 (7)		9700 (7)	9610 (7)	9290 (10)	17.5 (8)	4.9 (6)	86 (3)	21 (11)	37
L205	REX	9530 (8)		9430 (8)	9150 (9)	10010 (3)	15.5 (11)	4.9 (4)	90 (7)	5 (6)	37
04Y625	MPQ	9450 (9)		9290 (9)	9520 (8)	9530 (9)	19.2 (3)	5.0 (1)	91 (9)	15 (8)	39
M202	M	9290 (10)		8960 (10)	9110 (10)	9800 (6)	18.3 (7)	5.0 (1)	88 (5)	20 (10)	39
05Y328	MPQ	9170 (11)		8710 (12)	8960 (12)	9850 (5)	18.8 (5)	4.9 (4)	86 (2)	48 (13)	40
M402	MPQ	8970 (12)		8940 (11)	9080 (11)	8900 (12)	21.5 (1)	4.9 (6)	102 (13)	1 (2)	40
03Y151	REX	7440 (13)		7000 (13)	7840 (13)	7500 (13)	17.5 (9)	5.0 (3)	99 (12)	1 (1)	37
MEAN		9540		9530	9530	9540	17.8	4.9	90	13	38
CV		5.4		6.6	4.9	4.5	4.8	2.3	1.5	120.9	3.5
LSD (.05)		420		900	670	620	0.7	0.1	1	13	1

*Preliminary Lines and Varieties*

06Y664	M	9820 (1)		9240 (2)	9890 (1)	10350 (1)	17.4 (6)	5.0 (11)	90 (15)	4 (6)	36
06Y668	M	9490 (2)		8900 (6)	9740 (2)	9820 (5)	16.4 (13)	5.0 (7)	87 (10)	4 (6)	36
06Y696	M	9480 (3)		9030 (4)	9580 (4)	9830 (4)	17.6 (5)	5.0 (5)	89 (13)	11 (9)	38
06Y444	M	9470 (4)		9490 (1)	9180 (9)	9750 (6)	17.9 (4)	5.0 (7)	89 (11)	18 (13)	39
06Y620	SPQ	9150 (5)		8760 (7)	9590 (3)	9100 (12)	19.2 (1)	4.9 (18)	93 (19)	11 (10)	39
06Y390	M	9140 (6)		8980 (5)	8890 (10)	9560 (8)	17.0 (7)	5.0 (11)	86 (7)	19 (14)	38
06Y1024	M	9100 (7)		8070 (13)	9530 (5)	9710 (7)	16.1 (15)	4.9 (14)	84 (3)	33 (19)	38
05Y346	MBG	9070 (8)		8590 (10)	8740 (11)	9870 (3)	16.9 (9)	4.9 (21)	86 (6)	32 (18)	40
06Y438	M	9030 (9)		8330 (12)	9250 (8)	9510 (9)	16.7 (11)	5.0 (2)	89 (12)	33 (20)	37
06Y290	M	8980 (10)		8580 (11)	9380 (6)	8970 (14)	16.8 (10)	5.0 (7)	82 (1)	18 (12)	37
06Y293	M	8980 (11)		9120 (3)	8410 (16)	9400 (10)	16.5 (12)	5.0 (2)	82 (2)	26 (16)	38
07Y151	LIM	8960 (12)		8610 (9)	8410 (17)	9880 (2)	15.2 (16)	5.0 (11)	92 (17)	1 (3)	38
06Y984	M	8820 (13)		8660 (8)	8730 (12)	9050 (13)	18.1 (3)	4.9 (20)	89 (14)	9 (8)	38
CT201	BAS	8320 (14)		7350 (18)	8450 (14)	9150 (11)	14.0 (21)	5.0 (5)	91 (16)	4 (4)	38
CH201	SPQ	8200 (15)		7830 (15)	8590 (13)	8160 (15)	13.6 (22)	5.0 (1)	86 (8)	34 (21)	36
06Y313	SPQ	8080 (16)		7870 (14)	8420 (15)	7960 (16)	14.3 (19)	5.0 (7)	84 (3)	25 (15)	37
05Y744	JAS	7940 (17)		6950 (19)	9360 (7)	7500 (18)	16.9 (8)	4.8 (22)	98 (22)	28 (17)	41
CA201	SPQ	7340 (18)		7560 (16)	7470 (18)	7000 (19)	14.9 (17)	4.9 (15)	85 (5)	46 (22)	36
CT202	BAS	7160 (19)		7500 (17)	7100 (19)	6860 (20)	14.0 (20)	5.0 (2)	86 (8)	4 (5)	36
07Y155	BAS	7110 (20)		6730 (20)	7050 (21)	7550 (17)	16.2 (14)	4.9 (15)	92 (18)	16 (11)	39
07Y154	BAS	6700 (21)		6470 (21)	6990 (22)	6640 (21)	14.4 (18)	4.9 (18)	93 (21)	1 (2)	38
07Y152	BAS	5500 (22)		5370 (22)	7070 (20)	4060 (22)	18.3 (2)	4.9 (15)	93 (19)	1 (1)	37
MEAN		8360		8090	8630	8620	15.8	4.9	88	21	37
CV		7		7.9	6.4	5.2	7.3	1.6	2.1	86.4	3.4
LSD (.05)		580		900	1140	930	1.1	0.1	2	18	1

S = short; M = medium; L = long; PQ = premium quality; BG = Bold Grain; BAS = Basmati; JAS = Jasmine; WX = waxy; REX = 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. 2007 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)
05Y657	SSR	11120 ( 1)	15.6 ( 3)	4.7 (11)	91 (10)	5 ( 5)	38 ( 9)
L206	L	10390 ( 2)	13.7 (13)	4.6 (13)	81 ( 1)	6 ( 6)	31 ( 1)
05Y343	SWX	10200 ( 3)	15.3 ( 8)	4.7 (12)	89 ( 6)	63 (12)	36 ( 7)
99Y529	L	10160 ( 4)	14.0 (11)	4.8 (10)	87 ( 4)	4 ( 4)	36 ( 6)
M205	M	10080 ( 5)	15.4 ( 5)	4.9 ( 5)	92 (11)	43 ( 9)	37 ( 8)
04Y706	L	9930 ( 6)	15.4 ( 6)	4.8 ( 9)	89 ( 7)	3 ( 3)	36 ( 5)
05Y386	M	9700 ( 7)	15.4 ( 6)	4.9 ( 3)	86 ( 2)	50 (10)	36 ( 4)
L205	REX	9430 ( 8)	13.8 (12)	4.9 ( 7)	89 ( 7)	9 ( 7)	35 ( 3)
04Y625	MPQ	9290 ( 9)	15.3 ( 9)	5.0 ( 2)	89 ( 5)	36 ( 8)	38 (11)
M202	M	8960 (10)	15.2 (10)	4.9 ( 3)	90 ( 9)	57 (11)	39 (12)
M402	MPQ	8940 (11)	17.6 ( 1)	5.0 ( 1)	101 (13)	1 ( 2)	38 (10)
05Y328	MPQ	8710 (12)	15.6 ( 3)	4.9 ( 7)	86 ( 2)	82 (13)	39 (13)
03Y151	REX	7000 (13)	15.9 ( 2)	4.9 ( 6)	95 (12)	1 ( 1)	34 ( 2)
MEAN		9530	15.2	4.8	90	28	36
CV		6.6	5.8	3.2	2.4	77.9	3.8
LSD (.05)		900	1.3	0.2	3	31	2

*Preliminary Lines and Varieties*

06Y444	M	9490 ( 1)	15.5 ( 3)	4.9 ( 7)	88 (12)	49 (16)	37 (17)
06Y664	M	9240 ( 2)	14.7 ( 6)	4.9 (13)	90 (15)	11 ( 7)	35 ( 8)
06Y293	M	9120 ( 3)	14.3 (11)	5.0 ( 2)	80 ( 1)	61 (19)	37 (17)
06Y696	M	9030 ( 4)	15.2 ( 4)	4.9 ( 5)	88 (11)	31 (12)	36 (11)
06Y390	M	8980 ( 5)	14.5 ( 9)	4.9 (13)	86 ( 8)	45 (14)	37 (20)
06Y668	M	8900 ( 6)	14.6 ( 8)	4.9 ( 7)	85 ( 7)	11 ( 7)	34 ( 3)
06Y620	SPQ	8760 ( 7)	15.5 ( 2)	4.8 (20)	92 (18)	10 ( 5)	37 (17)
06Y984	M	8660 ( 8)	15.0 ( 5)	4.8 (20)	89 (14)	24 (10)	36 (12)
07Y151	LIM	8610 ( 9)	14.1 (13)	4.9 (13)	91 (16)	1 ( 1)	37 (16)
05Y346	MBG	8590 (10)	14.0 (16)	4.8 (17)	86 ( 8)	62 (20)	38 (22)
06Y290	M	8580 (11)	14.4 (10)	4.9 ( 7)	81 ( 2)	53 (17)	35 ( 6)
06Y438	M	8330 (12)	14.7 ( 7)	5.0 ( 2)	88 (13)	43 (13)	35 ( 9)
06Y1024	M	8070 (13)	14.2 (12)	4.9 (11)	84 ( 4)	45 (15)	37 (13)
06Y313	SPQ	7870 (14)	13.4 (20)	4.9 ( 7)	85 ( 6)	61 (18)	37 (14)
CH201	SPQ	7830 (15)	12.8 (21)	5.0 ( 1)	86 (10)	81 (22)	35 ( 5)
CA201	SPQ	7560 (16)	12.1 (22)	4.8 (17)	83 ( 3)	64 (21)	34 ( 4)
CT202	BAS	7500 (17)	14.0 (15)	5.0 ( 2)	84 ( 5)	11 ( 6)	33 ( 1)
CT201	BAS	7350 (18)	14.1 (14)	4.9 ( 5)	91 (16)	1 ( 1)	33 ( 2)
05Y744	JAS	6950 (19)	13.7 (17)	4.5 (22)	97 (22)	29 (11)	38 (21)
07Y155	BAS	6730 (20)	13.7 (17)	4.9 (11)	93 (21)	12 ( 9)	36 (10)
07Y154	BAS	6470 (21)	13.5 (19)	4.8 (16)	93 (19)	1 ( 4)	35 ( 7)
07Y152	BAS	5370 (22)	17.2 ( 1)	4.8 (17)	93 (20)	1 ( 1)	37 (14)
MEAN		8090	14.3	4.9	88	32	36
CV		7.9	4.1	2	2.6	58.2	3.6
LSD (.05)		900	0.8	0.1	3	26	2

S = short; M = medium; L = long; PQ = premium quality; BG = Bold Grain; BAS = Basmati; WX = waxy; REX = Newrex; JAS = Jasmine; 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. 2007 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)
M205	M	10400 (1)	17.8 (6)	4.9 (9)	94 (6)	1 (1)	38 (2)
05Y657	SSR	10340 (2)	18.2 (4)	4.8 (11)	93 (5)	1 (1)	42 (11)
05Y343	SWX	10240 (3)	19.0 (2)	5.0 (5)	94 (6)	10 (12)	40 (8)
99Y529	L	10190 (4)	14.1 (13)	4.9 (9)	95 (10)	1 (1)	39 (7)
04Y706	L	9830 (5)	16.3 (10)	4.8 (13)	97 (11)	1 (1)	39 (6)
L206	L	9670 (6)	14.5 (12)	5.0 (7)	87 (1)	2 (8)	36 (1)
05Y386	M	9610 (7)	17.4 (8)	5.0 (7)	91 (3)	8 (11)	39 (4)
04Y625	MPQ	9520 (8)	17.9 (5)	5.0 (1)	94 (6)	8 (10)	40 (9)
L205	REX	9150 (9)	15.2 (11)	5.0 (1)	94 (6)	1 (1)	39 (4)
M202	M	9110 (10)	17.7 (7)	5.0 (1)	91 (3)	2 (8)	41 (10)
M402	MPQ	9080 (11)	20.1 (1)	4.8 (11)	106 (13)	1 (1)	43 (13)
05Y328	MPQ	8960 (12)	18.3 (3)	5.0 (5)	90 (2)	30 (13)	42 (11)
03Y151	REX	7840 (13)	16.7 (9)	5.0 (1)	105 (12)	1 (1)	38 (3)
MEAN		9530	17.2	4.9	95	5	40
CV		4.9	4.7	2.1	0.9	210.7	3
LSD (.05)		670	1.2	0.1	1	16	2

*Preliminary Lines and Varieties*

06Y664	M	9890 (1)	16.8 (9)	5.0 (1)	92 (7)	1 (1)	37 (1)
06Y668	M	9740 (2)	16.7 (10)	5.0 (1)	93 (15)	1 (1)	38 (3)
06Y620	SPQ	9590 (3)	19.1 (1)	5.0 (1)	93 (12)	23 (18)	41 (14)
06Y696	M	9580 (4)	16.5 (12)	5.0 (1)	93 (15)	1 (1)	40 (12)
06Y1024	M	9530 (5)	16.3 (15)	5.0 (1)	90 (4)	38 (20)	42 (18)
06Y290	M	9380 (6)	17.2 (7)	5.0 (1)	88 (1)	1 (1)	40 (8)
05Y744	JAS	9360 (7)	17.7 (6)	4.8 (22)	104 (22)	5 (11)	45 (22)
06Y438	M	9250 (8)	16.6 (11)	5.0 (1)	92 (7)	53 (22)	39 (6)
06Y444	M	9180 (9)	17.7 (5)	5.0 (1)	92 (7)	5 (11)	43 (20)
06Y390	M	8890 (10)	16.4 (14)	5.0 (1)	92 (6)	6 (13)	40 (9)
05Y346	MBG	8740 (11)	18.9 (2)	4.9 (20)	88 (2)	16 (16)	42 (19)
06Y984	M	8730 (12)	17.9 (4)	5.0 (1)	93 (12)	3 (10)	39 (7)
CH201	SPQ	8590 (13)	13.7 (21)	5.0 (1)	93 (12)	18 (17)	38 (3)
CT201	BAS	8450 (14)	13.3 (22)	5.0 (1)	95 (18)	1 (1)	41 (14)
06Y313	SPQ	8420 (15)	14.8 (18)	5.0 (1)	91 (5)	13 (15)	38 (3)
06Y293	M	8410 (16)	16.9 (8)	5.0 (1)	88 (2)	11 (14)	40 (12)
07Y151	LIM	8410 (17)	15.5 (17)	5.0 (1)	95 (17)	1 (1)	40 (9)
CA201	SPQ	7470 (18)	16.4 (13)	5.0 (1)	92 (7)	50 (21)	38 (2)
CT202	BAS	7100 (19)	14.6 (19)	5.0 (1)	92 (7)	1 (1)	41 (16)
07Y152	BAS	7070 (20)	16.0 (16)	5.0 (1)	97 (19)	1 (1)	40 (9)
07Y155	BAS	7050 (21)	18.8 (3)	4.9 (20)	97 (19)	30 (19)	44 (21)
07Y154	BAS	6990 (22)	14.5 (20)	5.0 (1)	98 (21)	1 (1)	41 (17)
MEAN		8630	16.5	5.0	93	13	40
CV		6.4	12.8	0.9	0.7	148.6	3.3
LSD (.05)		1140		0.1	1		3

S = short; M = medium; L = long; PQ = premium quality; BG = Bold Grain; BAS = Basmati; WX = waxy;

REX = Newrex; JAS = Jasmine; 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. 2007 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)
99Y529	L	10430 (1)	16.8 (12)	5.0 (8)	79 (2)	3 (7)	38 (5)
M205	M	10320 (2)	22.5 (5)	5.0 (8)	89 (10)	6 (9)	38 (7)
L205	REX	10010 (3)	17.5 (11)	5.0 (4)	87 (7)	6 (9)	38 (5)
05Y343	SWX	9950 (4)	24.1 (3)	5.0 (4)	81 (3)	3 (7)	38 (8)
05Y328	MPQ	9850 (5)	22.4 (6)	5.0 (1)	82 (4)	33 (13)	39 (9)
M202	M	9800 (6)	22.1 (7)	5.0 (1)	84 (6)	2 (6)	39 (10)
05Y657	SSR	9790 (7)	22.7 (4)	4.9 (12)	87 (8)	1 (1)	40 (12)
L206	L	9580 (8)	15.1 (13)	4.9 (12)	78 (1)	13 (12)	35 (1)
04Y625	MPQ	9530 (9)	24.5 (2)	5.0 (4)	90 (11)	1 (1)	40 (11)
05Y386	M	9290 (10)	19.9 (9)	4.9 (11)	82 (4)	6 (9)	36 (2)
04Y706	L	9130 (11)	18.9 (10)	5.0 (8)	89 (9)	1 (1)	37 (3)
M402	MPQ	8900 (12)	26.7 (1)	5.0 (1)	100 (13)	1 (1)	41 (13)
03Y151	REX	7500 (13)	20.0 (8)	5.0 (4)	98 (12)	1 (1)	37 (4)
MEAN		9540	21.0	5.0	87	6	38
CV		4.5	4.3	1.3	0.8	205.5	3.7
LSD (.05)		620	1.3		1	17	2

*Preliminary Lines and Varieties*

06Y664	M	10350 (1)	20.5 (5)	5.0 (1)	88 (16)	1 (1)	37 (8)
07Y151	LIM	9880 (2)	15.9 (17)	5.0 (1)	90 (20)	2 (11)	37 (10)
05Y346	MBG	9870 (3)	17.9 (13)	5.0 (1)	84 (10)	18 (20)	39 (20)
06Y696	M	9830 (4)	21.0 (4)	5.0 (1)	86 (11)	1 (1)	37 (7)
06Y668	M	9820 (5)	18.1 (12)	5.0 (1)	82 (8)	1 (1)	36 (4)
06Y444	M	9750 (6)	20.4 (6)	5.0 (1)	86 (11)	1 (1)	38 (15)
06Y1024	M	9710 (7)	17.8 (14)	5.0 (20)	80 (4)	16 (19)	37 (11)
06Y390	M	9560 (8)	20.2 (7)	5.0 (1)	82 (7)	7 (17)	38 (16)
06Y438	M	9510 (9)	18.7 (10)	5.0 (1)	86 (11)	5 (13)	38 (14)
06Y293	M	9400 (10)	18.5 (11)	5.0 (1)	77 (2)	6 (15)	37 (8)
CT201	LB	9150 (11)	14.7 (20)	5.0 (1)	88 (16)	11 (18)	39 (19)
06Y620	SPQ	9100 (12)	22.9 (1)	5.0 (1)	93 (21)	1 (1)	40 (22)
06Y984	M	9050 (13)	21.4 (3)	5.0 (20)	86 (11)	1 (1)	38 (16)
06Y290	M	8970 (14)	18.8 (9)	5.0 (1)	76 (1)	1 (1)	37 (13)
CH201	SPQ	8160 (15)	14.3 (21)	5.0 (1)	80 (4)	5 (13)	36 (6)
06Y313	SPQ	7960 (16)	14.8 (19)	5.0 (1)	77 (2)	3 (12)	35 (3)
07Y155	BAS	7550 (17)	16.0 (16)	5.0 (1)	87 (15)	6 (15)	37 (11)
05Y744	JAS	7500 (18)	19.5 (8)	5.0 (1)	94 (22)	50 (22)	39 (20)
CA201	SPQ	7000 (19)	16.2 (15)	5.0 (1)	80 (4)	26 (21)	35 (1)
CT202	BAS	6860 (20)	13.4 (22)	5.0 (1)	83 (9)	1 (1)	35 (1)
07Y154	BAS	6640 (21)	15.1 (18)	5.0 (20)	88 (16)	1 (1)	38 (16)
07Y152	BAS	4060 (22)	21.8 (2)	5.0 (1)	89 (19)	1 (1)	36 (5)
MEAN		8620	18.1	5.0	85	7	37
CV		5.2	5.7	0.5	0.8	215.7	3.1
LSD (.05)		930	2.1		1		2

S = short; M = medium; L = long; PQ = premium quality; BG = Bold Grain; BAS = Basmati; WX = waxy; REX = 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 (2003-2007)

Location	Year	M-205	M-402	M-202	L-205
Biggs (RES)	2003	10180	8130	8650	10580
	2004	10180	9310	9480	10150
	2005	9110	8570	8610	9110
	2006	8830	8280	8620	8920
	2007	10080	8940	8960	9430
Location Mean		9676	8646	8864	9638
Glenn	2003	8483	7887	6862	7500
	2004	10210	9860	9040	9140
	2005	8190	9040	8430	7510
	2006	7050	7990	6820	6780
	2007	10400	9080	9110	9150
Location Mean		8867	8771	8052	8016
Sutter	2003	11151	9613	10356	9310
	2004	10850	9430	11140	10970
	2005	10040	7530	9500	9560
	2006	8490	7290	7760	8730
	2007	10320	8900	9800	10010
Location Mean		10170	8553	9711	9716
Loc/Years Mean		9571	8657	8876	9123
Yield % M-202		107.8	97.5	100	102.8
Number of Tests		15	15	15	15

Table 18. Comparison of mainplot yields (lb/acre at 14% moisture) at the RES systems site from 2004-2007. Analysis was done using an ANOVA model for an RCBD split-plot design, with years as the main factor and mainplot treatments as the sub factor. Different letters between yield values represent significant differences at  $p < 0.05$ .

Mainplot	Yield (lb/acre, adjusted to 14% moisture)
1	8028 <sup>A</sup>
2	8218 <sup>A</sup>
3	7386 <sup>B</sup>
4	8030 <sup>A</sup>
5	8500 <sup>A</sup>

Systems:

- 1 – Water seeded, conv till
- 2 – Drill seeded, conv till
- 3 – Water seeded, conv till, stale seedbed
- 4 – Water seeded, min till, stale seedbed
- 5 – Drill seeded, min till, stale seedbed

Summary points:

- When analyzed as a split-plot with years as the main factor and mainplot treatments as the sub-factor, all systems had significantly higher yields than system 3, but were not statistically different from each other.
- Though not statistically significant, it is worth noting that the drill-seeded systems (2 and 5) had the highest yields across years, with the drill-seeded no-till system (5) highest.
- With the exception of system 3, all systems had similar or higher yields to system 1, which represents a “conventional” California rice system.