

ANNUAL REPORT
COMPREHENSIVE RESEARCH ON RICE
January 1, 2014 – March 31, 2015

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

PROJECT LEADER:

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OBJECTIVES AND EXPERIMENTS CONDUCTED BY LOCATION TO ACCOMPLISH OBJECTIVES:

Objective I

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

Very Early Maturity Group: Two 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 16 entries (nine commercial varieties and seven advanced breeding lines) in four replications. The Preliminary tests included 36 entries, 30 preliminary breeding lines and six commercial varieties as checks, in two replications.

Early Maturity Group: Two uniform tests were conducted at each of the following on-farm sites: the Larrabee Ranch (Glenn County), the Dennis Ranch (Colusa County), and the Charlie Matthews (Jr) Ranch (District 10, Yuba County). Two additional trials, Advanced and Preliminary, were conducted at the RES. The Advanced test at each site included 16 entries (eight commercial varieties and eight advanced breeding lines) in four replications. The Preliminary tests included 39 entries (eight commercial varieties and 31 preliminary breeding lines) in two replications.

Intermediate and Late Maturity Group: Two uniform tests were conducted at each of the following on-farm sites: the Wiley Ranch (Glenn County) and the Tucker Ranch (Sutter Basin, Sutter County). Two additional tests were conducted at the RES. The Advanced test at each site included 11 entries (seven commercial varieties and four advanced breeding lines) in four replications. The Preliminary tests included 25 entries (seven commercial varieties and 18 preliminary breeding lines) in two replications.

Objective II

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 34 trials including the 16 variety tests. Equipment from the UCCE-based pool for planting and harvesting field experiments was used at 10 sites at different times during the season. The most heavily used equipment was the ALMACO combine followed by a Kincaid drill seed planter. The rice combines were maintained according to the established maintenance schedules.

The ALMACO rice combine was used to harvest all of the statewide trials and RES tests.

Objective III

Extension Education: We disseminated research-based information to California rice producers, dryer operators, millers and the general public through four winter grower meetings, field demonstrations, personal communication, and other printed material. We hosted the annual Rice Breeders Field Tour. The UCCE rice website is back online and new materials are being added as they become available.

SUMMARY OF 2014 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 and preliminary line tests and over-location agronomic performance summaries for each entry in each maturity category. For quick reference, grain yields of selected commercially available varieties tested in very early, early and intermediate-late tests across years and locations are summarized in Tables 6, 12 and 17. An Agronomy Progress Report, to be published later this year, will provide agronomic performance results for all entries in each experiment.

Very Early Maturity Tests (< 90 days to 50% heading at Biggs): Nine commercial varieties and seven advanced breeding lines were compared in four very early advanced tests. The preliminary tests evaluated six commercial varieties and 30 preliminary lines in separate tests at each location. Commercial varieties at each location included S-102, A-202, CA-201, CH-201, CH-202, CM-101, M-104, M-105, M-202, M-203, M-205, M-206, M-208, M-402 and L-206.

Grain yields in the advanced tests averaged 9,030 overall, 8,530 lbs/ac at Biggs-RES, 9,210 lbs/ac at Sutter, 9,420 lbs/ac at Yolo and 9,010 lbs/ac at San Joaquin (Tables 1-5). The three highest yielding entries, on average, were advanced medium grain line 08Y3269, medium premium quality grain line 11Y2022, and medium blast resistant grain line 12Y113 (9,670, 9,630, and 9,620 lbs/ac respectively). The top yielding commercial varieties M-206, M-205, M-104 and L-206 ranked fifth, seventh, ninth, and eleventh respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 10,320 to 6,160 lbs/ac (Table 1). Average grain moisture at harvest and lodging increased (0.6% and 20%

respectively) while days to 50% heading decreased 2 days in 2014 as compared to 2013. Seedling vigor and plant height were essentially the same as in 2013. Field preparation was completed earlier than normal due to a relatively dry spring. Planting was completed within the average time frame, however several districts experienced delayed water deliveries this year resulting in large areas being planted in a short period of time. Relatively dry weather resulted in a timely harvest and reasonably good grain quality.

Comparing the commercial standard entries over a 5-year period and across locations, M-206, M-104, and L-206 were the three highest yielding varieties (Table 6).

Early Maturity Tests (90-97 days to 50% heading at Biggs): Eight commercial varieties and eight advanced lines were compared in four early advanced tests. The preliminary tests included eight commercial varieties and 31 preliminary lines evaluated in separate tests at each location. Commercial varieties at each location were S-102, A-201, CH-201, CH-202, CM-101, M-105, M-202, M-203, M-205, M-206, M-208, M-402, A-202, CA-201, CT-202, and L-206.

Yields in the advanced line tests averaged 8790 lbs/ac overall, 8510 lbs/ac at the RES; 9060 lbs/ac at Butte, 8940 lbs/ac at Colusa and 8650 lbs/ac at Yuba (Tables 7-11). Advanced long grain 13Y1073 was the highest yielding entry (9,900 lbs/ac) when averaged over four locations in 2014 (Table 7). Advanced long grain lines 11Y1005 and 11Y1008 and the medium grain blast resistant line 12Y113 yielded second, third, and fourth respectively. The yield of commercial varieties M-206, L-206, M-205, M-202, and CH-202 ranked seventh, eighth, ninth, twelfth and thirteenth over all locations (Table 7). Average days to 50% heading ranged from 82 days at Biggs and Butte to 86 days at the slightly cooler Yuba County site. The commercial standard M-206 headed at 80 days at Biggs and 84 days at Yuba. The average yield of M-105 decreased 3.3% compared to 2013. Nine experimental lines averaged significantly higher yields than M-105 in the Preliminary tests.

L-206 was the highest yielding commercial variety (9,561 lbs/ac) followed by M-206 (9,543 lbs/ac) and M-205 (9,509 lbs/ac) when averaged over the last 5 years and across locations (Table 12).

Intermediate-Late Maturity Tests (> 97 days to 50% heading at Biggs) - Seven commercial varieties and four advanced lines were compared in three intermediate-late tests. The Sutter test was not included in the over-location yield summary table due to severe lodging resulting in unusually high yield CVs. The preliminary tests included seven commercial varieties and 18 preliminary lines that were evaluated in separate tests at each location. Commercial varieties at each location included CM-101, CH-201, CH-202, Koshihikari, M-105, M-202, M-203, M-205, M-206, M-208, M-401, M-402, L-206, and A-202.

Average yields in the advanced tests were 9520 lbs/ac overall, 10,220 lbs/ac at the RES, 8,820 lbs/ac at Glenn and 8,590 lbs/ac at Sutter (Tables 13-16). The 2014 advanced over location average yield increased 650 lbs/ac (7%) compared to the 2013 average. The average yields at the Biggs increased 660 lbs/ac and increased 200 lbs/ac at Glenn compared to the 2013 season. In the advanced tests, M-205 was the highest yielding commercial variety (9,730 lbs/ac), ranking fifth overall. L-206 and M-402 were the next highest yielding commercial varieties across locations, ranking sixth and seventh respectively (Table 13). The medium premium quality grain entry 11Y2183 was the highest yielding advanced entry across all locations at 10,350 lbs/ac. Average days to 50% heading decreased four days compared to 2013. M-401 and Koshihikari were the latest varieties (108 and 113 days respectively) to reach 50% heading among the commercial varieties at all locations.

Averaged over the last 5 years and across locations, L-206 is the highest yielding (9,512 lbs/ac) commercial variety closely followed by M-205 at 9,495 lbs/ac. L-206 and M-205 produced 107% and 105% of the yield of M-202 on average over the last 5 years and across all locations (Table 17).

Objective II - Assistance to Other Projects

Both the UC SWECO and ALMACO plot combines were serviced and maintained during the harvest season. The ALMACO was used to harvest all test plots this year. Muddy field conditions were not a factor this year and the SWECO was not needed.

The rice equipment pool, including a precision Clampo fertilizer applicator, SWECO 324 plot combine, ALMACO SP40 plot combine, moisture meters, remote temperature stations, and other equipment were available for use along with personnel to provide technical assistance for numerous field experiments in 2014. Equipment from the UCCE-based pool for planting and harvesting field experiments was used at 16 sites at different times during the season. The ALMACO was used to harvest 16 variety tests, one chemical trial, two growth regulator trials, three fertility trials and four rice grain Arsenic trials. Over 1,500 experimental plots were harvested in 2014. 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 four winter rice growers meetings, the RES Rice Field Day, the annual rice breeders' field tour and to the several UC campus based Rice Research Board meetings held each year.

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

1. The Annual Agronomy Progress Report No. 317 "California Rice Varieties: Description and Performance Summary of the 2013 Multiyear Statewide Rice Variety Tests In California".
2. The UCCE website is online and is continually being updated.

Publications and Reports:

1. Linqvist, B.A., K.J. van Groenigen, M.A. Adviento-Borbe, C. Pittelkow and C. van Kessel. 2012. An agronomic assessment of greenhouse gas emissions from major cereal crops. *Global Change Biology* 18:194-209 doi:10.1111/j.1365-2486.2011.02502.x
2. Pittelkow, C.M., A.J. Fischer, M.J. Moechnig, J.E. Hill, K.B. Koffler, R.G. Mutters, C.A. Greer, Y.S. Cho, C. van Kessel, C. and B.A. Linqvist. 2012. Agronomic productivity and nitrogen requirements of alternative tillage and crop establishment systems for improved weed control in direct-seeded rice. *Field Crops Research* 130:128-137.
3. Lundy, M.E., D.F. Spencer, C. van Kessel, J.E. Hill and B.A. Linqvist. 2012. Managing phosphorus fertilizer to reduce algae, maintain water quality, and sustain yields in water-seeded rice. *Field Crops Research* 131:81-87.
4. Linqvist, B.A., M.A. Adviento-Borbe, C.M. Pittelkow, C. van Kessel and K.J. van Groenigen. 2012. Fertilizer management practices and greenhouse gas emissions from rice systems: A quantitative review and analysis. *Field Crops Research* 135:10-21.
5. Liang, X.Q., H. Li, S.X. Wang, Y.S. Ye1, Y.J. Ji, G.M. Tian, C. van Kessel and B.A. Linqvist. 2013. Nitrogen source and rate influence yield-scaled global warming potential in rice cropping systems. *Field Crops Research* 146:66-74.
6. Simmonds, M.B., R.E. Plant, J.M. Peña-Barragán, C. van Kessel, J. Hill and B.A. Linqvist. 2013. Underlying causes of yield spatial variability and potential for precision management in rice systems. *Precision Agriculture* 14:512-540.

7. Pittelkow, C.M., M.A. Adviento-Borbe, J.E. Hill, J. Six, C. van Kessel, B.A. Linquist 2013. Yield-scaled global warming potential of annual nitrous oxide and methane emissions from continuously flooded rice in response to nitrogen input. *Agriculture, Ecosystems and Environment* 177:10-20.
8. Adviento-Borbe, M.A., C.M. Pittelkow, M. Anders, C. van Kessel, J.E. Hill, A.M. McClung, J. Six, and B.A. Linquist. (2013). Optimal fertilizer N rates and yield-scaled global warming potential in drill seeded rice. *Journal of Environmental Quality* 42:1623-1634.
9. Linquist, B.A., L. Liu, C. van Kessel, and K.J. van Groenigen. (2013) Enhanced efficiency nitrogen fertilizers for rice systems: meta-analysis of yield and nitrogen uptake. *Field Crops Research* 154: 246-254
10. Hill, JE, Canevari, WM, Espino, LA, Greer, C.A., Mutters, RG, and Wennig, RL 2013. University of California Cooperative Extension (UCCE) rice variety adaptation and cultural practices research. *In Annual Report Comprehensive Rice Research 2013*. University of California and USDA. (available in e-version only).
11. Pittelkow, C., M.A. Adviento-Borbe, C. van Kessel, J. Hill, B. Linquist. (2014). Optimizing rice yields while minimizing yield-scaled global warming potential. *Global Change Biology* 20:1382-1393.
12. Lundy ,M. E., J.E. Hill, C. van Kessel, D. A. Owen, R. M. Pedroso, L. G. Boddy, A. J. Fischer, and B. A. Linquist. (2014). Site-specific, real-time temperatures improve the accuracy of weed emergence predictions in a direct-seeded rice system. *Agricultural Systems* 123:12-21.
13. Liang, X.Q., T. Harter, L. Porta, C. van Kessel, and B.A. Linquist. (2014) Nitrate leaching in Californian rice fields: a field and regional scale assessment. *Journal of Environmental Quality*: 43:881-894.
14. Linquist, B.A., M. Ruark, R. Mutters, C. Greer, and J. Hill. (2014). Nutrients and sediments in surface runoff water from rice fields: Implications for nutrient budgets and water quality. *Journal of Environmental Quality* 43:1725-1735.
15. Spencer, D. and B.A. Linquist. (2014) Reducing rice field algae and cyanobacteria by altering phosphorus fertilizer applications. *Paddy and Water Environment* 12:147-154.
16. Pittelkow, C.M., Y. Assa, M. Burger, W.R. Horwath, R.G. Mutters, C.A. Greer, L.A. Espino, J.E. Hill, C. van Kessel, B.A. Linquist. (2014). Nitrogen management and methane emissions as affected by alternative establishment practices in direct-seeded rice. *Agronomy Journal* 106:968-980.
17. Linquist, B.A., M. Anders, M.A. Adviento-Borbe, R.L. Chaney, L.L. Nalley, E. E.F. da Rosa, and C. van Kessel. (2014) Reducing greenhouse gas emissions, water use and grain arsenic levels in rice systems. *Global Change Biology*. doi:10.1111/gcb.12701.
18. Brodt, S., A. Kendall, Y. Mohammadi, A. Arslan, J. Yuan, I. Lee, B. Linquist. (2014) Life cycle greenhouse gas emissions in California rice production. *Field Crops Research* 169:89-98.
19. Simmonds, M.B., M. Anders, M.A. Adviento-Borbe, C. van Kessel, A. McClung, and B.A. Linquist. (In Press). Seasonal CH₄ and N₂O emissions and plant growth characteristics in direct seeded rice systems. *Journal of Environmental Quality*.
20. Nalley, L. L., M.M. Anders, K.F. Kovacs, and B. Linquist (In Press) The economic viability of alternate wetting and drying (AWD) irrigation in rice production in the mid-south. *Agronomy Journal*.

CONCISE GENERAL SUMMARY OF CURRENT YEAR'S RESULTS:

Sixteen on-farm rice variety evaluation trials were conducted throughout the rice growing region of California, with standard varieties compared to preliminary and advanced lines across a range of environments, cultural practices and disease levels. Six similar tests were conducted at the RES in Biggs, CA. Average yields across varieties and locations in the advanced line tests ranged from 9,030 lbs/acre in the very early trials to 9,520 lbs/acre in the intermediate/late tests. In the early tests the advanced lines average yield was 8,790 lbs/acre. Field preparation was completed earlier than normal due to a relatively dry spring. Planting was also completed in a timely manner, however several areas experienced delayed water deliveries this year resulting in large areas being planted in a short period of time. Several advanced lines in 2014 produced high yields as well as demonstrating 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.

Project RM-2 was involved in the planting, sampling and harvesting of more than 10 trial sites throughout the rice growing areas. This project 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. 2014 Four Location Very Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Over All 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 | | | | | | |
| 08Y3269 | M | 9670 (1) | | 10070 (1) | 9310 (8) | 9960 (3) | 9350 (6) | 17.6 (7) | 5.0 (7) | 91 (13) | 16 (4) | 38 (11) | |
| 11Y2022 | MPQ | 9630 (2) | | 9540 (5) | 10020 (2) | 9370 (11) | 9590 (3) | 17.9 (5) | 4.9 (12) | 85 (10) | 34 (10) | 39 (14) | |
| 12Y113 | MB | 9620 (3) | | 9750 (3) | 9650 (5) | 9540 (9) | 9550 (4) | 18.5 (3) | 5.0 (7) | 88 (11) | 45 (14) | 39 (15) | |
| 11Y1005 | L | 9570 (4) | | 9560 (4) | 9860 (3) | 10080 (1) | 8770 (11) | 15.5 (13) | 4.9 (10) | 85 (9) | 3 (2) | 40 (16) | |
| M206 | M | 9520 (5) | | 9200 (7) | 9710 (4) | 9770 (6) | 9390 (5) | 17.6 (8) | 4.9 (10) | 85 (7) | 41 (12) | 39 (13) | |
| 11Y1008 | L | 9500 (6) | | 9220 (6) | 10130 (1) | 9630 (7) | 9010 (7) | 15.9 (12) | 4.8 (16) | 85 (8) | 11 (3) | 37 (8) | |
| M205 | M | 9380 (7) | | 9770 (2) | 9170 (10) | 9780 (5) | 8810 (10) | 17.8 (6) | 4.9 (13) | 94 (15) | 21 (7) | 37 (5) | |
| 09Y2141 | SWX | 9350 (8) | | 8470 (10) | 9300 (9) | 9870 (4) | 9740 (1) | 18.5 (4) | 5.0 (2) | 81 (4) | 41 (13) | 38 (12) | |
| M104 | M | 9240 (9) | | 8150 (11) | 9510 (6) | 9610 (8) | 9680 (2) | 16.1 (10) | 5.0 (6) | 80 (2) | 37 (11) | 37 (7) | |
| 09Y2179 | S | 9050 (10) | | 9020 (8) | 8190 (15) | 10040 (2) | 8950 (8) | 20.2 (1) | 5.0 (5) | 94 (15) | 1 (1) | 38 (10) | |
| L206 | L | 8860 (11) | | 8580 (9) | 9440 (7) | 8760 (15) | 8660 (12) | 15.3 (14) | 4.9 (14) | 84 (6) | 20 (6) | 35 (1) | |
| CH202 | SPQ | 8710 (12) | | 7930 (12) | 8630 (14) | 9340 (12) | 8930 (9) | 16.9 (9) | 4.9 (15) | 83 (5) | 64 (16) | 36 (2) | |
| M202 | M | 8620 (13) | | 7330 (14) | 9060 (11) | 9450 (10) | 8650 (13) | 19.1 (2) | 5.0 (1) | 93 (14) | 20 (5) | 38 (9) | |
| S102 | S | 8470 (14) | | 7640 (13) | 8770 (13) | 8980 (13) | 8480 (14) | 14.2 (16) | 5.0 (2) | 79 (1) | 34 (9) | 37 (6) | |
| CH201 | SPQ | 7870 (15) | | 5720 (16) | 8840 (12) | 8800 (14) | 8110 (16) | 16.1 (10) | 4.9 (9) | 88 (12) | 51 (15) | 36 (3) | |
| CM101 | SWX | 7580 (16) | | 6540 (15) | 7780 (16) | 7580 (16) | 8440 (15) | 14.3 (15) | 5.0 (2) | 80 (3) | 32 (8) | 36 (4) | |
| MEAN | | 9030 | | 8530 | 9210 | 9420 | 9010 | 17 | 4.9 | 86 | 29 | 37 | |
| CV | | 5.1 | | 4.9 | 5.1 | 6.7 | 3.5 | 7.4 | 1.5 | 0.9 | 54.9 | 3.3 | |
| LSD (.05) | | 320 | | 600 | 670 | 910 | 450 | 0.9 | 0.1 | 1 | 11 | 1 | |

Preliminary Lines and Varieties

| | | | | | | | | | | | | |
|-----------|-----|------------------|--|-----------|-----------|------------|-----------|-----------|----------|---------|---------|---------|
| 10Y2043 | S | 10320 (1) | | 10210 (1) | 10730 (1) | 10670 (1) | 9650 (12) | 14.7 (35) | 4.9 (34) | 81 (5) | 62 (35) | 36 (3) |
| 13Y1073 | L | 9970 (2) | | 9850 (2) | 9810 (5) | 10240 (7) | 9960 (2) | 14.5 (36) | 5.0 (12) | 85 (17) | 8 (5) | 36 (4) |
| 11Y3326 | M | 9570 (3) | | 8410 (15) | 9960 (4) | 10000 (12) | 9890 (3) | 16.5 (20) | 4.9 (19) | 84 (11) | 39 (25) | 39 (29) |
| 12Y3097 | MB | 9530 (4) | | 9190 (4) | 8910 (27) | 10520 (3) | 9490 (19) | 16.8 (14) | 4.9 (29) | 85 (12) | 32 (18) | 37 (12) |
| 11Y3672 | M | 9500 (5) | | 8990 (5) | 9330 (19) | 10070 (9) | 9600 (15) | 17.0 (10) | 5.0 (12) | 86 (21) | 15 (11) | 38 (18) |
| M105 | M | 9470 (6) | | 7680 (29) | 10380 (2) | 10150 (8) | 9660 (11) | 16.2 (25) | 4.9 (19) | 81 (3) | 38 (24) | 38 (20) |
| 11Y3606 | M | 9430 (7) | | 8420 (14) | 9710 (8) | 10320 (6) | 9280 (23) | 16.9 (12) | 5.0 (5) | 84 (10) | 34 (21) | 37 (11) |
| 13Y3046 | M | 9410 (8) | | 8090 (22) | 9730 (6) | 10070 (10) | 9750 (6) | 15.7 (30) | 4.9 (29) | 82 (6) | 54 (33) | 38 (25) |
| 12Y2174 | MPQ | 9400 (9) | | 8880 (8) | 9280 (20) | 9720 (16) | 9710 (10) | 16.5 (17) | 5.0 (5) | 91 (30) | 18 (12) | 39 (31) |
| 13Y3150 | M | 9390 (10) | | 7950 (24) | 9680 (9) | 10450 (4) | 9460 (20) | 15.8 (28) | 4.9 (19) | 87 (23) | 9 (6) | 38 (17) |
| 08Y3126 | M | 9340 (11) | | 8570 (12) | 9590 (13) | 9490 (19) | 9710 (9) | 17.7 (6) | 4.9 (19) | 85 (19) | 35 (22) | 39 (30) |
| 13Y3093 | M | 9340 (12) | | 8360 (16) | 8940 (26) | 10330 (5) | 9730 (7) | 16.6 (16) | 5.0 (12) | 85 (16) | 9 (6) | 37 (7) |
| 13Y3192 | M | 9290 (13) | | 7990 (23) | 9630 (10) | 10600 (2) | 8940 (32) | 15.6 (31) | 4.9 (19) | 89 (28) | 33 (20) | 38 (16) |
| 12Y2163 | MPQ | 9280 (14) | | 8790 (9) | 9200 (22) | 9790 (15) | 9350 (21) | 17.1 (9) | 4.9 (19) | 93 (35) | 7 (4) | 37 (8) |
| 13Y3071 | M | 9280 (15) | | 8220 (21) | 9430 (15) | 9880 (13) | 9590 (16) | 15.8 (29) | 4.9 (29) | 83 (8) | 32 (17) | 38 (19) |
| 13Y3043 | M | 9270 (16) | | 8270 (20) | 9620 (11) | 9540 (18) | 9640 (13) | 16.5 (19) | 5.0 (12) | 81 (4) | 24 (14) | 37 (10) |
| 13Y2015 | S | 9230 (17) | | 8310 (19) | 9360 (17) | 9660 (17) | 9610 (14) | 18.3 (2) | 4.9 (36) | 87 (22) | 18 (12) | 37 (13) |
| 13Y3012 | M | 9210 (18) | | 8970 (6) | 9980 (3) | 8190 (31) | 9720 (8) | 16.3 (24) | 5.0 (5) | 80 (1) | 40 (27) | 38 (24) |
| 13Y3036 | M | 9160 (19) | | 7830 (26) | 9410 (16) | 9880 (14) | 9540 (17) | 16.1 (26) | 4.9 (19) | 83 (9) | 48 (31) | 37 (9) |
| 13Y1037 | LSR | 9150 (20) | | 9280 (3) | 9720 (7) | 9090 (21) | 8530 (34) | 15.4 (33) | 5.0 (5) | 87 (24) | 1 (1) | 39 (33) |
| 13Y3052 | M | 9040 (21) | | 8700 (10) | 9060 (24) | 8400 (29) | 10030 (1) | 16.5 (18) | 5.0 (12) | 82 (6) | 39 (26) | 38 (26) |
| 12Y2108 | MPQ | 9000 (22) | | 8930 (7) | 8760 (31) | 8460 (28) | 9850 (4) | 16.9 (13) | 4.9 (19) | 91 (32) | 27 (15) | 40 (34) |
| 12Y2104 | MPQ | 8930 (23) | | 7910 (25) | 8830 (29) | 10020 (11) | 8950 (31) | 17.7 (5) | 4.9 (19) | 92 (33) | 1 (1) | 38 (23) |
| 13Y3216 | MB | 8890 (24) | | 7650 (30) | 9340 (18) | 9280 (20) | 9270 (25) | 17.7 (4) | 5.0 (5) | 86 (20) | 45 (29) | 38 (15) |
| A202 | LA | 8850 (25) | | 8670 (11) | 9600 (12) | 8580 (26) | 8530 (35) | 16.3 (23) | 5.0 (5) | 88 (26) | 15 (10) | 37 (14) |
| 11Y3403 | M | 8830 (26) | | 8340 (18) | 9150 (23) | 8820 (23) | 8990 (30) | 16.0 (27) | 4.9 (19) | 85 (12) | 1 (1) | 35 (1) |
| M208 | MB | 8590 (27) | | 7780 (27) | 8520 (32) | 8770 (24) | 9280 (24) | 16.3 (22) | 5.0 (12) | 91 (30) | 28 (16) | 39 (32) |
| 13Y3213 | MB | 8480 (28) | | 8350 (17) | 9450 (14) | 6630 (36) | 9500 (18) | 17.4 (7) | 4.9 (33) | 85 (15) | 48 (31) | 39 (28) |
| 12Y2167 | SPQ | 8480 (29) | | 7730 (28) | 8150 (33) | 8850 (22) | 9180 (27) | 19.1 (1) | 5.0 (5) | 88 (27) | 14 (9) | 38 (21) |
| 13Y3215 | MB | 8410 (30) | | 7330 (31) | 9030 (25) | 8070 (32) | 9240 (26) | 17.8 (3) | 5.0 (12) | 87 (24) | 55 (34) | 40 (35) |
| M402 | MPQ | 8400 (31) | | 8500 (13) | 7830 (34) | 8270 (30) | 9000 (29) | 16.7 (15) | 5.0 (2) | 99 (36) | 35 (23) | 39 (27) |
| 09Y2064 | SWX | 8380 (32) | | 6220 (34) | 9240 (21) | 8740 (25) | 9330 (22) | 16.5 (21) | 4.9 (29) | 85 (12) | 13 (8) | 36 (5) |
| M203 | MPQ | 8060 (33) | | 7130 (32) | 6790 (36) | 8540 (27) | 9780 (5) | 16.9 (11) | 5.0 (1) | 90 (29) | 45 (28) | 42 (36) |
| 11Y2223 | S | 7910 (34) | | 6460 (33) | 8840 (28) | 7700 (33) | 8630 (33) | 15.5 (32) | 4.9 (35) | 80 (2) | 33 (19) | 36 (6) |
| 13Y3220 | MPQ | 7720 (35) | | 6060 (35) | 8770 (30) | 6960 (34) | 9070 (28) | 17.3 (8) | 5.0 (3) | 92 (34) | 68 (36) | 38 (22) |
| CA201 | SLA | 6160 (36) | | 4150 (36) | 7240 (35) | 6880 (35) | 6380 (36) | 14.8 (34) | 5.0 (3) | 85 (18) | 46 (30) | 35 (2) |
| MEAN | | 8920 | | 8120 | 9190 | 9090 | 9330 | 16.5 | 4.9 | 86 | 30 | 38 |
| CV | | 5.5 | | 6.7 | 5.5 | 6.5 | 3.8 | 5.3 | 1.1 | 1.5 | 78.2 | 3.8 |
| LSD (.05) | | 490 | | 1100 | 1020 | 1250 | 730 | 0.9 | 0.1 | 1 | 23 | 1 |

S = short; M = medium; L = long; PQ = premium quality; WX = waxy; LA = long grain aromatic; MB = medium blast resistant; SLA = short grain low amaloese; 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. 2014 Biggs Very Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture | | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
|-----------|------------|-----------------------------|-------------------------|----------------------|---------------------|----------------|-------------------|
| | | lbs/acre | Moisture at Harvest (%) | | | | |
| 08Y3269 | M | 10070 (1) | 18.1 (3) | 4.8 (9) | 84 (13) | 1 (1) | 38 (14) |
| M205 | M | 9770 (2) | 18.3 (2) | 4.7 (13) | 86 (15) | 1 (1) | 37 (10) |
| 12Y113 | MB | 9750 (3) | 18.3 (1) | 4.8 (9) | 82 (12) | 1 (1) | 37 (11) |
| 11Y1005 | L | 9560 (4) | 15.3 (11) | 4.8 (11) | 80 (10) | 1 (1) | 41 (16) |
| 11Y2022 | MPQ | 9540 (5) | 17.5 (5) | 4.7 (13) | 80 (9) | 1 (1) | 39 (15) |
| 11Y1008 | L | 9220 (6) | 15.2 (12) | 4.7 (13) | 79 (7) | 1 (1) | 36 (9) |
| M206 | M | 9200 (7) | 15.9 (9) | 4.8 (11) | 79 (7) | 1 (1) | 37 (12) |
| 09Y2179 | S | 9020 (8) | 17.4 (6) | 4.9 (6) | 87 (16) | 1 (1) | 36 (8) |
| L206 | L | 8580 (9) | 14.9 (14) | 4.7 (16) | 77 (4) | 1 (1) | 33 (1) |
| 09Y2141 | SWX | 8470 (10) | 16.9 (7) | 4.9 (2) | 77 (4) | 13 (14) | 36 (7) |
| M104 | M | 8150 (11) | 16.4 (8) | 4.8 (7) | 75 (2) | 6 (12) | 35 (5) |
| CH202 | SPQ | 7930 (12) | 15.4 (10) | 4.8 (7) | 77 (6) | 63 (16) | 35 (6) |
| S102 | S | 7640 (13) | 12.0 (16) | 4.9 (2) | 75 (3) | 3 (11) | 35 (4) |
| M202 | M | 7330 (14) | 18.0 (4) | 5.0 (1) | 84 (14) | 1 (1) | 38 (13) |
| CM101 | SWX | 6540 (15) | 13.2 (15) | 4.9 (2) | 74 (1) | 8 (13) | 34 (3) |
| CH201 | SPQ | 5720 (16) | 15.0 (13) | 4.9 (2) | 82 (11) | 25 (15) | 34 (2) |
| MEAN | | 8530 | 16.1 | 4.8 | 80 | 8 | 36 |
| CV | | 4.9 | 10.8 | 1.8 | 1 | 140.7 | 3.7 |
| LSD (.05) | | 600 | 2.5 | 0.1 | 1 | 16 | 2 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|----------|----------|---------|---------|
| 10Y2043 | S | 10210 (1) | 13.5 (35) | 4.8 (13) | 76 (3) | 11 (29) | 33 (3) |
| 13Y1073 | L | 9850 (2) | 16.1 (30) | 4.8 (13) | 80 (20) | 1 (1) | 35 (7) |
| 13Y1037 | LSR | 9280 (3) | 15.1 (33) | 4.9 (5) | 80 (23) | 1 (1) | 38 (28) |
| 12Y3097 | MB | 9190 (4) | 16.7 (17) | 4.7 (30) | 80 (20) | 1 (1) | 36 (17) |
| 11Y3672 | M | 8990 (5) | 16.6 (21) | 4.8 (13) | 79 (13) | 1 (1) | 37 (24) |
| 13Y3012 | M | 8970 (6) | 16.2 (27) | 4.9 (5) | 76 (3) | 1 (1) | 37 (23) |
| 12Y2108 | MPQ | 8930 (7) | 19.2 (5) | 4.8 (21) | 84 (31) | 1 (1) | 40 (35) |
| 12Y2174 | MPQ | 8880 (8) | 17.9 (8) | 4.9 (5) | 84 (31) | 1 (1) | 40 (35) |
| 12Y2163 | MPQ | 8790 (9) | 18.0 (7) | 4.8 (21) | 86 (35) | 1 (1) | 36 (20) |
| 13Y3052 | M | 8700 (10) | 16.6 (22) | 4.8 (13) | 77 (7) | 1 (1) | 38 (25) |
| A202 | LA | 8670 (11) | 15.5 (32) | 4.9 (5) | 82 (28) | 1 (1) | 38 (29) |
| 08Y3126 | M | 8570 (12) | 17.4 (12) | 4.9 (5) | 79 (13) | 1 (1) | 36 (17) |
| M402 | MPQ | 8500 (13) | 19.1 (6) | 5.0 (2) | 101 (36) | 1 (1) | 38 (29) |
| 11Y3606 | M | 8420 (14) | 17.0 (14) | 4.9 (5) | 78 (9) | 1 (1) | 35 (10) |
| 11Y3326 | M | 8410 (15) | 16.7 (19) | 4.8 (21) | 78 (10) | 1 (1) | 36 (16) |
| 13Y3093 | M | 8360 (16) | 16.7 (19) | 4.8 (13) | 79 (13) | 1 (1) | 34 (6) |
| 13Y3213 | MB | 8350 (17) | 17.5 (11) | 4.7 (35) | 79 (13) | 6 (26) | 38 (31) |
| 11Y3403 | M | 8340 (18) | 16.1 (31) | 4.8 (21) | 79 (13) | 1 (1) | 34 (5) |
| 13Y2015 | S | 8310 (19) | 17.6 (10) | 4.7 (30) | 80 (23) | 1 (1) | 36 (21) |
| 13Y3043 | M | 8270 (20) | 16.6 (22) | 4.8 (13) | 76 (3) | 6 (26) | 35 (12) |
| 13Y3071 | M | 8220 (21) | 16.7 (17) | 4.7 (30) | 77 (7) | 1 (1) | 35 (7) |
| 13Y3046 | M | 8090 (22) | 17.1 (13) | 4.7 (30) | 76 (6) | 35 (33) | 35 (10) |
| 13Y3192 | M | 7990 (23) | 16.2 (27) | 4.8 (21) | 81 (25) | 1 (1) | 36 (15) |
| 13Y3150 | M | 7950 (24) | 16.3 (26) | 4.8 (21) | 79 (13) | 1 (1) | 35 (12) |
| 12Y2104 | MPQ | 7910 (25) | 19.4 (4) | 4.8 (21) | 85 (33) | 1 (1) | 39 (33) |
| 13Y3036 | M | 7830 (26) | 16.1 (29) | 4.8 (21) | 78 (10) | 20 (31) | 36 (17) |
| M208 | MB | 7780 (27) | 16.4 (24) | 4.8 (13) | 82 (28) | 1 (1) | 39 (34) |
| 12Y2167 | SPQ | 7730 (28) | 17.7 (9) | 4.9 (5) | 82 (26) | 1 (1) | 35 (9) |
| M105 | M | 7680 (29) | 16.8 (16) | 4.8 (21) | 75 (2) | 6 (26) | 36 (21) |
| 13Y3216 | MB | 7650 (30) | 19.9 (3) | 4.9 (5) | 80 (20) | 11 (29) | 35 (14) |
| 13Y3215 | MB | 7330 (31) | 22.2 (1) | 4.8 (13) | 82 (26) | 21 (32) | 38 (27) |
| M203 | MPQ | 7130 (32) | 16.3 (25) | 5.0 (1) | 83 (30) | 35 (33) | 38 (26) |
| 11Y2223 | S | 6460 (33) | 12.8 (36) | 4.7 (35) | 74 (1) | 1 (1) | 33 (1) |
| 09Y2064 | SWX | 6220 (34) | 17.0 (15) | 4.7 (30) | 79 (12) | 1 (1) | 34 (4) |
| 13Y3220 | MPQ | 6060 (35) | 21.8 (2) | 4.9 (3) | 85 (34) | 45 (35) | 38 (31) |
| CA201 | SLA | 4150 (36) | 14.4 (34) | 4.9 (3) | 79 (13) | 45 (35) | 33 (2) |
| MEAN | | 8120 | 17.0 | 4.8 | 80 | 7 | 36 |
| CV | | 6.7 | 6.6 | 1.5 | 0.7 | 160.4 | 4.2 |
| LSD (.05) | | 1100 | 2.3 | 0.1 | 1 | 24 | 3 |

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

MB = medium blast resistant; SLA = short grain low amaloose; 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. 2014 Sutter Very Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture | | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
|-----------|------------|-----------------------------|-------------------------|----------------------|---------------------|----------------|-------------------|
| | | lbs/acre | Moisture at Harvest (%) | | | | |
| 11Y1008 | L | 10130 (1) | 13.3 (10) | 5.0 (1) | 80 (6) | 38 (5) | 36 (5) |
| 11Y2022 | MPQ | 10020 (2) | 14.1 (6) | 5.0 (1) | 81 (9) | 74 (8) | 38 (10) |
| 11Y1005 | L | 9860 (3) | 12.7 (14) | 5.0 (1) | 81 (10) | 10 (2) | 39 (16) |
| M206 | M | 9710 (4) | 14.8 (4) | 5.0 (1) | 80 (8) | 92 (9) | 38 (11) |
| 12Y113 | MB | 9650 (5) | 12.6 (15) | 5.0 (1) | 85 (11) | 97 (10) | 39 (14) |
| M104 | M | 9510 (6) | 13.9 (7) | 5.0 (1) | 75 (2) | 97 (11) | 38 (11) |
| L206 | L | 9440 (7) | 12.6 (16) | 5.0 (1) | 80 (7) | 58 (7) | 35 (1) |
| 08Y3269 | M | 9310 (8) | 13.8 (8) | 5.0 (1) | 88 (12) | 30 (3) | 37 (9) |
| 09Y2141 | SWX | 9300 (9) | 16.3 (2) | 5.0 (1) | 74 (1) | 99 (13) | 39 (15) |
| M205 | M | 9170 (10) | 13.3 (11) | 5.0 (1) | 91 (14) | 35 (4) | 37 (7) |
| M202 | M | 9060 (11) | 14.9 (3) | 5.0 (1) | 92 (15) | 44 (6) | 36 (4) |
| CH201 | SPQ | 8840 (12) | 13.1 (13) | 5.0 (1) | 88 (12) | 98 (12) | 36 (3) |
| S102 | S | 8770 (13) | 13.7 (9) | 5.0 (1) | 75 (2) | 99 (13) | 37 (8) |
| CH202 | SPQ | 8630 (14) | 14.5 (5) | 4.9 (16) | 79 (5) | 99 (13) | 35 (2) |
| 09Y2179 | S | 8190 (15) | 19.3 (1) | 5.0 (1) | 94 (16) | 1 (1) | 38 (13) |
| CM101 | SWX | 7780 (16) | 13.1 (12) | 5.0 (1) | 76 (4) | 99 (13) | 37 (6) |
| MEAN | | 9210 | 14.1 | 5.0 | 82 | 67 | 37 |
| CV | | 5.1 | 4 | 0.8 | 0.7 | 27.1 | 3.5 |
| LSD (.05) | | 670 | 0.8 | | 1 | 26 | 2 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|---------|---------|---------|---------|
| 10Y2043 | S | 10730 (1) | 13.1 (21) | 5.0 (1) | 78 (7) | 99 (29) | 35 (2) |
| M105 | M | 10380 (2) | 13.3 (16) | 5.0 (1) | 77 (5) | 97 (27) | 39 (32) |
| 13Y3012 | M | 9980 (3) | 13.3 (18) | 5.0 (1) | 75 (1) | 99 (29) | 39 (32) |
| 11Y3326 | M | 9960 (4) | 13.2 (20) | 5.0 (1) | 79 (9) | 88 (26) | 39 (26) |
| 13Y1073 | L | 9810 (5) | 11.7 (34) | 5.0 (1) | 82 (17) | 31 (7) | 35 (1) |
| 13Y3046 | M | 9730 (6) | 13.0 (22) | 5.0 (1) | 76 (3) | 99 (29) | 38 (21) |
| 13Y1037 | LSR | 9720 (7) | 13.6 (8) | 5.0 (1) | 84 (24) | 1 (1) | 38 (22) |
| 11Y3606 | M | 9710 (8) | 13.3 (14) | 5.0 (1) | 79 (11) | 85 (24) | 38 (19) |
| 13Y3150 | M | 9680 (9) | 12.8 (25) | 5.0 (1) | 84 (19) | 11 (5) | 39 (26) |
| 13Y3192 | M | 9630 (10) | 12.7 (27) | 5.0 (1) | 87 (30) | 70 (17) | 37 (13) |
| 13Y3043 | M | 9620 (11) | 13.4 (12) | 5.0 (1) | 76 (3) | 48 (11) | 37 (18) |
| A202 | LA | 9600 (12) | 13.6 (8) | 5.0 (1) | 85 (28) | 55 (15) | 36 (6) |
| 08Y3126 | M | 9590 (13) | 13.6 (10) | 5.0 (1) | 81 (14) | 73 (20) | 39 (32) |
| 13Y3213 | MB | 9450 (14) | 12.3 (31) | 5.0 (1) | 81 (14) | 99 (29) | 38 (23) |
| 13Y3071 | M | 9430 (15) | 12.3 (31) | 5.0 (1) | 78 (7) | 75 (21) | 39 (30) |
| 13Y3036 | M | 9410 (16) | 12.8 (25) | 5.0 (1) | 79 (9) | 85 (24) | 37 (8) |
| 13Y2015 | S | 9360 (17) | 16.4 (2) | 5.0 (1) | 85 (27) | 40 (8) | 39 (26) |
| 13Y3216 | MB | 9340 (18) | 12.5 (30) | 5.0 (1) | 82 (16) | 80 (23) | 37 (12) |
| 11Y3672 | M | 9330 (19) | 12.8 (24) | 5.0 (1) | 84 (24) | 45 (9) | 37 (8) |
| 12Y2174 | MPQ | 9280 (20) | 12.9 (23) | 5.0 (1) | 84 (19) | 60 (16) | 37 (13) |
| 09Y2064 | SWX | 9240 (21) | 14.0 (5) | 5.0 (1) | 84 (19) | 50 (12) | 37 (8) |
| 12Y2163 | MPQ | 9200 (22) | 13.2 (19) | 5.0 (1) | 84 (19) | 6 (4) | 36 (7) |
| 11Y3403 | M | 9150 (23) | 14.1 (4) | 5.0 (1) | 80 (12) | 1 (1) | 36 (3) |
| 13Y3052 | M | 9060 (24) | 13.4 (12) | 5.0 (1) | 77 (6) | 99 (29) | 39 (26) |
| 13Y3215 | MB | 9030 (25) | 11.6 (35) | 5.0 (1) | 84 (19) | 99 (29) | 39 (31) |
| 13Y3093 | M | 8940 (26) | 13.3 (14) | 5.0 (1) | 83 (18) | 25 (6) | 37 (8) |
| 12Y3097 | MB | 8910 (27) | 13.5 (11) | 5.0 (1) | 80 (12) | 70 (19) | 37 (15) |
| 11Y2223 | S | 8840 (28) | 13.7 (7) | 5.0 (1) | 75 (2) | 99 (29) | 37 (15) |
| 12Y2104 | MPQ | 8830 (29) | 14.8 (3) | 5.0 (1) | 88 (34) | 1 (1) | 36 (4) |
| 13Y3220 | MPQ | 8770 (30) | 11.5 (36) | 5.0 (1) | 88 (32) | 99 (29) | 38 (19) |
| 12Y2108 | MPQ | 8760 (31) | 12.6 (28) | 5.0 (1) | 90 (35) | 75 (21) | 37 (15) |
| M208 | MB | 8520 (32) | 13.3 (16) | 5.0 (1) | 87 (29) | 70 (17) | 38 (23) |
| 12Y2167 | SPQ | 8150 (33) | 17.5 (1) | 5.0 (1) | 87 (30) | 46 (10) | 40 (35) |
| M402 | MPQ | 7830 (34) | 11.9 (39) | 5.0 (1) | 96 (36) | 97 (27) | 38 (23) |
| CA201 | SLA | 7240 (35) | 12.6 (29) | 5.0 (1) | 84 (24) | 50 (12) | 36 (4) |
| M203 | MPQ | 6790 (36) | 13.9 (6) | 5.0 (1) | 88 (32) | 55 (14) | 44 (36) |
| MEAN | | 9190 | 13.3 | 5.0 | 82 | 63 | 38 |
| CV | | 5.5 | 3.8 | | 2.2 | 49.9 | 3.1 |
| LSD (.05) | | 1020 | 1 | | 4 | 64 | 2 |

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

MB = medium blast resistant; SLA = short grain low amalose; 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. 2014 Yolo Very Early Rice Variety Trials

| <i>Advanced Lines and Varieties</i> | | | | | | | |
|--|------------|--------------------------|-------------------------|----------------------|---------------------|----------------|-------------------|
| Variety | Grain Type | Grain Yield | Grain | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
| | | at 14% Moisture lbs/acre | Moisture at Harvest (%) | | | | |
| 11Y1005 | L | 10080 (1) | 17.8 (13) | 5.0 (1) | 85 (6) | 1 (1) | 43 (11) |
| 09Y2179 | S | 10040 (2) | 20.9 (9) | 5.0 (1) | 86 (9) | 1 (1) | 42 (9) |
| 08Y3269 | M | 9960 (3) | 20.9 (8) | 5.0 (1) | 93 (15) | 30 (6) | 43 (14) |
| 09Y2141 | SWX | 9870 (4) | 22.5 (5) | 5.0 (1) | 82 (4) | 50 (11) | 43 (12) |
| M205 | M | 9780 (5) | 21.2 (6) | 5.0 (1) | 95 (16) | 45 (10) | 41 (6) |
| M206 | M | 9770 (6) | 22.6 (4) | 5.0 (1) | 85 (7) | 69 (13) | 43 (13) |
| 11Y1008 | L | 9630 (7) | 19.5 (11) | 4.7 (16) | 86 (11) | 3 (3) | 40 (4) |
| M104 | M | 9610 (8) | 17.2 (14) | 5.0 (1) | 80 (3) | 43 (9) | 40 (5) |
| 12Y113 | MB | 9540 (9) | 24.7 (2) | 5.0 (1) | 89 (13) | 81 (15) | 44 (16) |
| M202 | M | 9450 (10) | 24.8 (1) | 5.0 (1) | 93 (14) | 33 (7) | 43 (10) |
| 11Y2022 | MPQ | 9370 (11) | 23.0 (3) | 5.0 (1) | 85 (7) | 61 (12) | 43 (14) |
| CH202 | SPQ | 9340 (12) | 21.0 (7) | 4.9 (13) | 82 (4) | 93 (16) | 39 (2) |
| S102 | S | 8980 (13) | 16.3 (15) | 5.0 (1) | 78 (1) | 33 (8) | 41 (7) |
| CH201 | SPQ | 8800 (14) | 20.9 (10) | 4.9 (13) | 87 (12) | 80 (14) | 41 (8) |
| L206 | L | 8760 (15) | 17.9 (12) | 4.9 (15) | 86 (9) | 21 (4) | 38 (1) |
| CM101 | SWX | 7580 (16) | 16.1 (16) | 5.0 (1) | 79 (2) | 21 (4) | 39 (2) |
| MEAN | | 9420 | 20.5 | 5.0 | 86 | 41 | 41 |
| CV | | 6.7 | 8.1 | 1.9 | 1 | 58.2 | 2.7 |
| LSD (.05) | | 910 | 2.4 | 0.1 | 1 | 34 | 2 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | |
| 10Y2043 | S | 10670 (1) | 17.8 (32) | 4.8 (36) | 81 (3) | 65 (27) | 40 (6) |
| 13Y3192 | M | 10600 (2) | 18.1 (30) | 5.0 (1) | 89 (26) | 62 (25) | 44 (30) |
| 12Y3097 | MB | 10520 (3) | 20.1 (14) | 5.0 (1) | 85 (11) | 55 (23) | 41 (9) |
| 13Y3150 | M | 10450 (4) | 18.1 (29) | 5.0 (1) | 88 (23) | 25 (12) | 42 (14) |
| 13Y3093 | M | 10330 (5) | 20.2 (11) | 5.0 (1) | 85 (11) | 11 (8) | 40 (6) |
| 11Y3606 | M | 10320 (6) | 21.5 (4) | 5.0 (1) | 85 (11) | 50 (20) | 42 (22) |
| 13Y1073 | L | 10240 (7) | 15.6 (36) | 5.0 (1) | 86 (16) | 1 (1) | 41 (9) |
| M105 | M | 10150 (8) | 18.8 (25) | 5.0 (1) | 81 (3) | 48 (19) | 42 (18) |
| 11Y3672 | M | 10070 (9) | 21.2 (6) | 5.0 (1) | 87 (19) | 13 (10) | 42 (18) |
| 13Y3046 | M | 10070 (10) | 18.2 (28) | 5.0 (1) | 83 (8) | 80 (29) | 44 (29) |
| 12Y2104 | MPQ | 10020 (11) | 20.1 (13) | 5.0 (1) | 93 (32) | 1 (1) | 42 (18) |
| 11Y3326 | M | 10000 (12) | 20.4 (8) | 5.0 (1) | 89 (24) | 65 (27) | 44 (33) |
| 13Y3071 | M | 9880 (13) | 19.6 (19) | 5.0 (1) | 84 (10) | 50 (20) | 42 (24) |
| 13Y3036 | M | 9880 (14) | 20.6 (7) | 5.0 (1) | 84 (9) | 85 (30) | 41 (12) |
| 12Y2163 | MPQ | 9790 (15) | 20.2 (12) | 5.0 (1) | 98 (36) | 20 (11) | 42 (14) |
| 12Y2174 | MPQ | 9720 (16) | 19.6 (20) | 5.0 (1) | 94 (34) | 11 (8) | 44 (32) |
| 13Y2015 | S | 9660 (17) | 20.0 (15) | 4.9 (35) | 86 (16) | 30 (13) | 38 (1) |
| 13Y3043 | M | 9540 (18) | 20.4 (8) | 5.0 (1) | 81 (3) | 41 (17) | 40 (3) |
| 08Y3126 | M | 9490 (19) | 21.3 (5) | 5.0 (1) | 87 (19) | 65 (26) | 43 (28) |
| 13Y3216 | MB | 9280 (20) | 22.3 (2) | 5.0 (1) | 87 (19) | 90 (32) | 42 (24) |
| 13Y1037 | LSR | 9090 (21) | 16.7 (35) | 5.0 (1) | 89 (24) | 1 (1) | 41 (9) |
| 12Y2167 | SPQ | 8850 (22) | 22.3 (1) | 5.0 (1) | 92 (31) | 8 (7) | 43 (27) |
| 11Y3403 | M | 8820 (23) | 17.2 (34) | 5.0 (1) | 86 (16) | 1 (1) | 39 (2) |
| M208 | MB | 8770 (24) | 19.1 (22) | 5.0 (1) | 93 (32) | 40 (16) | 44 (30) |
| 09Y2064 | SWX | 8740 (25) | 18.0 (31) | 5.0 (1) | 83 (7) | 1 (1) | 40 (4) |
| A202 | LA | 8580 (26) | 18.9 (24) | 5.0 (1) | 90 (28) | 1 (1) | 41 (13) |
| M203 | MPQ | 8540 (27) | 19.3 (21) | 5.0 (1) | 91 (29) | 90 (32) | 49 (36) |
| 12Y2108 | MPQ | 8460 (28) | 19.6 (18) | 5.0 (1) | 91 (30) | 31 (14) | 45 (34) |
| 13Y3052 | M | 8400 (29) | 19.6 (17) | 5.0 (1) | 82 (6) | 55 (22) | 42 (14) |
| M402 | MPQ | 8270 (30) | 19.7 (16) | 5.0 (1) | 97 (35) | 43 (18) | 42 (22) |
| 13Y3012 | M | 8190 (31) | 20.2 (10) | 5.0 (1) | 81 (1) | 60 (24) | 42 (18) |
| 13Y3215 | MB | 8070 (32) | 18.9 (23) | 5.0 (1) | 87 (19) | 99 (36) | 46 (35) |
| 11Y2223 | S | 7700 (33) | 18.4 (27) | 5.0 (1) | 81 (1) | 31 (14) | 40 (4) |
| 13Y3220 | MPQ | 6960 (34) | 18.8 (26) | 5.0 (1) | 89 (26) | 97 (35) | 43 (26) |
| CA201 | SLA | 6880 (35) | 17.7 (33) | 5.0 (1) | 85 (11) | 90 (32) | 40 (8) |
| 13Y3213 | MB | 6630 (36) | 21.5 (3) | 5.0 (1) | 85 (11) | 85 (30) | 42 (14) |
| MEAN | | 9090 | 19.4 | 5.0 | 87 | 44 | 42 |
| CV | | 6.5 | 6 | 1.4 | 1.7 | 71 | 4.3 |
| LSD (.05) | | 1250 | 2.4 | | 3 | 64 | 4 |

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

MB = medium blast resistant; SLA = short grain low amaloose; 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. 2014 San Joaquin Very Early Rice Variety Trials

| <i>Advanced Lines and Varieties</i> | | | | | | | |
|--|------------|--------------------------|-------------------------|----------------------|---------------------|----------------|-------------------|
| Variety | Grain Type | Grain Yield | | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
| | | at 14% Moisture lbs/acre | Moisture at Harvest (%) | | | | |
| 09Y2141 | SWX | 9740 (1) | 18.4 (5) | 5.0 (1) | 90 (3) | 1 (1) | 35 (10) |
| M104 | M | 9680 (2) | 17.0 (8) | 5.0 (1) | 89 (1) | 1 (1) | 34 (8) |
| 11Y2022 | MPQ | 9590 (3) | 17.1 (7) | 5.0 (1) | 96 (10) | 1 (1) | 35 (10) |
| 12Y113 | MB | 9550 (4) | 18.5 (4) | 5.0 (1) | 97 (12) | 1 (1) | 37 (15) |
| M206 | M | 9390 (5) | 16.9 (9) | 5.0 (1) | 94 (8) | 1 (1) | 36 (12) |
| 08Y3269 | M | 9350 (6) | 17.5 (6) | 5.0 (1) | 101 (13) | 1 (1) | 34 (6) |
| 11Y1008 | L | 9010 (7) | 15.7 (13) | 5.0 (14) | 94 (8) | 1 (1) | 36 (14) |
| 09Y2179 | S | 8950 (8) | 23.4 (1) | 5.0 (1) | 108 (16) | 1 (1) | 36 (12) |
| CH202 | SPQ | 8930 (9) | 16.8 (10) | 4.8 (16) | 92 (6) | 1 (1) | 32 (2) |
| M205 | M | 8810 (10) | 18.6 (3) | 4.9 (15) | 104 (15) | 1 (1) | 33 (4) |
| 11Y1005 | L | 8770 (11) | 16.3 (11) | 5.0 (1) | 93 (7) | 1 (1) | 38 (16) |
| L206 | L | 8660 (12) | 15.9 (12) | 5.0 (1) | 92 (5) | 1 (1) | 33 (3) |
| M202 | M | 8650 (13) | 18.9 (2) | 5.0 (1) | 102 (14) | 1 (1) | 34 (6) |
| S102 | S | 8480 (14) | 14.8 (16) | 5.0 (1) | 89 (1) | 1 (1) | 35 (9) |
| CM101 | SWX | 8440 (15) | 15.0 (15) | 5.0 (1) | 91 (4) | 1 (1) | 33 (5) |
| CH201 | SPQ | 8110 (16) | 15.6 (14) | 5.0 (1) | 96 (10) | 1 (1) | 32 (1) |
| MEAN | | 9010 | 17.3 | 5.0 | 95 | 1 | 35 |
| CV | | 3.5 | 3 | 1.1 | 1 | | 3.2 |
| LSD (.05) | | 450 | 0.7 | 0.1 | 1 | | 2 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | |
| 13Y3052 | M | 10030 (1) | 16.4 (16) | 5.0 (1) | 92 (6) | 1 (1) | 36 (20) |
| 13Y1073 | L | 9960 (2) | 14.7 (32) | 5.0 (1) | 93 (8) | 1 (1) | 32 (1) |
| 11Y3326 | M | 9890 (3) | 15.6 (27) | 5.0 (1) | 93 (8) | 1 (1) | 36 (25) |
| 12Y2108 | MPQ | 9850 (4) | 16.2 (20) | 5.0 (1) | 102 (33) | 1 (1) | 37 (32) |
| M203 | MPQ | 9780 (5) | 18.1 (6) | 5.0 (1) | 101 (29) | 1 (1) | 38 (35) |
| 13Y3046 | M | 9750 (6) | 14.4 (36) | 5.0 (1) | 92 (7) | 1 (1) | 36 (30) |
| 13Y3093 | M | 9730 (7) | 16.2 (21) | 5.0 (1) | 93 (12) | 1 (1) | 35 (15) |
| 13Y3012 | M | 9720 (8) | 15.4 (30) | 5.0 (1) | 90 (1) | 1 (1) | 35 (11) |
| 08Y3126 | M | 9710 (9) | 18.3 (4) | 4.9 (34) | 96 (23) | 1 (1) | 37 (32) |
| 12Y2174 | MPQ | 9710 (10) | 15.7 (25) | 5.0 (1) | 101 (29) | 1 (1) | 36 (18) |
| M105 | M | 9660 (11) | 15.6 (26) | 5.0 (1) | 90 (2) | 1 (1) | 35 (12) |
| 10Y2043 | S | 9650 (12) | 14.4 (34) | 5.0 (1) | 91 (4) | 75 (36) | 34 (4) |
| 13Y3043 | M | 9640 (13) | 15.5 (29) | 5.0 (1) | 91 (3) | 1 (1) | 36 (25) |
| 13Y2015 | S | 9610 (14) | 19.1 (1) | 4.9 (34) | 96 (24) | 1 (1) | 36 (25) |
| 11Y3672 | M | 9600 (15) | 17.5 (7) | 5.0 (1) | 95 (19) | 1 (1) | 36 (22) |
| 13Y3071 | M | 9590 (16) | 14.6 (33) | 5.0 (1) | 93 (8) | 1 (1) | 36 (30) |
| 13Y3036 | M | 9540 (17) | 15.1 (31) | 5.0 (1) | 93 (8) | 1 (1) | 35 (10) |
| 13Y3213 | MB | 9500 (18) | 18.2 (5) | 5.0 (1) | 95 (19) | 1 (1) | 36 (25) |
| 12Y3097 | MB | 9490 (19) | 17.0 (12) | 5.0 (1) | 94 (15) | 1 (1) | 35 (15) |
| 13Y3150 | M | 9460 (20) | 16.2 (22) | 5.0 (1) | 98 (26) | 1 (1) | 36 (25) |
| 12Y2163 | MPQ | 9350 (21) | 17.0 (11) | 5.0 (1) | 106 (35) | 1 (1) | 34 (6) |
| 09Y2064 | SWX | 9330 (22) | 16.9 (13) | 5.0 (1) | 94 (15) | 1 (1) | 34 (8) |
| 11Y3606 | M | 9280 (23) | 15.8 (24) | 5.0 (1) | 94 (15) | 1 (1) | 34 (6) |
| M208 | MB | 9280 (24) | 16.4 (18) | 5.0 (1) | 101 (28) | 1 (1) | 35 (12) |
| 13Y3216 | MB | 9270 (25) | 16.4 (18) | 5.0 (1) | 95 (19) | 1 (1) | 36 (22) |
| 13Y3215 | MB | 9240 (26) | 18.4 (3) | 5.0 (1) | 98 (27) | 1 (1) | 37 (34) |
| 12Y2167 | SPQ | 9180 (27) | 19.0 (2) | 5.0 (1) | 94 (15) | 1 (1) | 35 (15) |
| 13Y3220 | MPQ | 9070 (28) | 17.2 (8) | 5.0 (1) | 106 (35) | 30 (35) | 34 (9) |
| M402 | MPQ | 9000 (29) | 16.0 (23) | 5.0 (1) | 102 (33) | 1 (1) | 36 (18) |
| 11Y3403 | M | 8990 (30) | 16.8 (14) | 5.0 (1) | 93 (12) | 1 (1) | 32 (1) |
| 12Y2104 | MPQ | 8950 (31) | 16.7 (15) | 5.0 (1) | 101 (29) | 1 (1) | 36 (22) |
| 13Y3192 | M | 8940 (32) | 15.5 (28) | 5.0 (1) | 101 (29) | 1 (1) | 35 (12) |
| 11Y2223 | S | 8630 (33) | 17.1 (10) | 4.9 (36) | 91 (4) | 1 (1) | 36 (20) |
| 13Y1037 | LSR | 8530 (34) | 16.4 (17) | 5.0 (1) | 97 (25) | 1 (1) | 40 (36) |
| A202 | LA | 8530 (35) | 17.2 (9) | 5.0 (1) | 95 (22) | 1 (1) | 34 (4) |
| CA201 | SLA | 6380 (36) | 14.4 (35) | 5.0 (1) | 93 (12) | 1 (1) | 33 (3) |
| MEAN | | 9330 | 16.4 | 5.0 | 96 | 4 | 35 |
| CV | | 3.8 | 2.7 | 1 | 0.6 | 150.5 | 3.2 |
| LSD (.05) | | 730 | 0.9 | | 1 | 12 | 2 |

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

MB = medium blast resistant; SLA = short grain low amaloise; 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 (2010-2014)

| Location | Year | M-104 | M-202 | M-206 | Calmochi | | |
|----------------------|-------|--------------|-------------|--------------|-------------|-------------|-------------|
| | | | | | 101 | S-102 | L-206 |
| Biggs (RES) | 2010 | - | 10470 | 11290 | 9470 | 9380 | 10200 |
| | 2011* | - | - | - | - | - | - |
| | 2012 | 10260 | 10050 | 10420 | 8500 | 9370 | 10020 |
| | 2013 | 9710 | 8380 | 8610 | 8580 | 9120 | 9970 |
| | 2014 | 8150 | 7330 | 9200 | 6540 | 7640 | 8580 |
| Location Mean | | 9373 | 9058 | 9880 | 8273 | 8878 | 9693 |
| Sutter | 2010 | 8270 | 6520 | 7890 | 9500 | 9360 | 8050 |
| | 2011* | - | - | - | - | - | - |
| | 2012 | 8990 | 8810 | 9320 | 7500 | 8470 | 9570 |
| | 2013 | 9510 | 9990 | 9710 | 8340 | 9300 | 9700 |
| | 2014 | 9510 | 9060 | 9710 | 7780 | 8770 | 9440 |
| Location Mean | | 9070 | 8595 | 9158 | 8280 | 8975 | 9190 |
| Yolo | 2010 | 8050 | 7890 | 8210 | 7190 | 7520 | 8230 |
| | 2011 | 10020 | 9590 | 10230 | 9320 | 9050 | 9490 |
| | 2012 | 9610 | 8930 | 9900 | 7450 | 8400 | 9060 |
| | 2013 | 9420 | 9260 | 9790 | 7830 | 8380 | 9000 |
| | 2014 | 9610 | 9450 | 9770 | 7580 | 8980 | 8760 |
| Location Mean | | 9342 | 9024 | 9580 | 7874 | 8466 | 8908 |
| San Joaquin | 2010 | 8360 | 7760 | 7560 | 8070 | 7950 | 8170 |
| | 2011 | 8800 | 9090 | 9330 | 7850 | 7760 | 8340 |
| | 2012 | 8460 | 7490 | 8990 | 7880 | 8180 | 7570 |
| | 2013 | 8140 | 8140 | 8410 | 7680 | 7960 | 8180 |
| | 2014 | 9680 | 8650 | 9390 | 8440 | 8480 | 8660 |
| Location Mean | | 8688 | 8226 | 8736 | 7984 | 8066 | 8184 |
| Loc/Years Mean | | 9091 | 8714 | 9318 | 8083 | 8559 | 8944 |
| Yield % M-104 | | 100.0 | 95.9 | 102.5 | 88.9 | 94.2 | 98.4 |
| Number of Tests | | 17 | 18 | 18 | 18 | 18 | 18 |

* Test locations not included in 2011 due to very high yield cvs.

Table 7. 2014 Four Location Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Ave Grain Yield at 14% Moisture | Single Location Yields | | | | Ave Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
|-----------|------------|---------------------------------|------------------------|-----------|-----------|-----------|-----------------------------------|----------------------|---------------------|----------------|-------------------|
| | | lbs/acre | Biggs | Butte | Colusa | Yuba | | | | | |
| 13Y1073 | L | 9900 (1) | 10330 (1) | 9450 (6) | 9670 (3) | 10120 (2) | 14.1 (14) | 4.9 (11) | 82 (9) | 9 (5) | 38 (4) |
| 11Y1005 | L | 9630 (2) | 9280 (5) | 8660 (12) | 9760 (1) | 10810 (1) | 13.9 (15) | 4.9 (9) | 80 (5) | 5 (2) | 41 (16) |
| 11Y1008 | L | 9610 (3) | 9000 (8) | 9680 (3) | 9720 (2) | 10050 (3) | 14.2 (13) | 4.9 (15) | 81 (7) | 5 (3) | 40 (14) |
| 12Y113 | MB | 9530 (4) | 9600 (4) | 10040 (1) | 9650 (4) | 8820 (8) | 18.1 (4) | 4.9 (10) | 83 (10) | 55 (11) | 40 (13) |
| 08Y3269 | M | 9300 (5) | 9670 (3) | 9140 (8) | 9600 (6) | 8800 (9) | 18.0 (7) | 5.0 (5) | 88 (13) | 10 (6) | 40 (8) |
| 11Y2183 | MPQ | 9270 (6) | 9710 (2) | 8930 (11) | 9530 (7) | 8920 (7) | 19.0 (1) | 4.9 (16) | 92 (16) | 12 (7) | 39 (7) |
| M206 | M | 9270 (7) | 9240 (6) | 9610 (5) | 9280 (10) | 8950 (6) | 17.1 (8) | 5.0 (2) | 81 (8) | 46 (10) | 40 (12) |
| L206 | L | 9250 (8) | 8640 (10) | 9730 (2) | 9380 (8) | 9260 (4) | 13.6 (16) | 4.9 (13) | 80 (4) | 42 (9) | 36 (1) |
| M205 | M | 9190 (9) | 9140 (7) | 9140 (7) | 9370 (9) | 9120 (5) | 18.0 (6) | 5.0 (3) | 90 (14) | 5 (3) | 38 (5) |
| 09Y2179 | S | 8920 (10) | 8760 (9) | 8950 (10) | 9640 (5) | 8330 (10) | 19.0 (2) | 5.0 (5) | 90 (15) | 1 (1) | 40 (11) |
| 09Y2141 | SWX | 8570 (11) | 8310 (11) | 9650 (4) | 8310 (12) | 8010 (11) | 18.9 (3) | 5.0 (5) | 79 (3) | 72 (13) | 41 (15) |
| M202 | M | 8030 (12) | 7010 (14) | 8360 (14) | 8720 (11) | 8010 (12) | 18.1 (5) | 5.0 (5) | 88 (12) | 19 (8) | 40 (10) |
| CH202 | SPQ | 7920 (13) | 7580 (12) | 9120 (9) | 7590 (15) | 7370 (14) | 16.9 (9) | 4.9 (13) | 80 (6) | 87 (16) | 38 (3) |
| S102 | S | 7850 (14) | 7320 (13) | 8570 (13) | 8080 (13) | 7420 (13) | 14.5 (12) | 5.0 (3) | 77 (1) | 71 (12) | 40 (9) |
| CH201 | SPQ | 7390 (15) | 6220 (16) | 8310 (15) | 7740 (14) | 7290 (15) | 16.0 (10) | 5.0 (1) | 86 (11) | 84 (15) | 37 (2) |
| CMI01 | SWX | 7040 (16) | 6400 (15) | 7570 (16) | 7070 (16) | 7120 (16) | 14.5 (11) | 4.9 (12) | 78 (2) | 76 (14) | 39 (6) |
| MEAN | | 8790 | 8510 | 9060 | 8940 | 8650 | 16.5 | 4.9 | 83 | 37 | 39 |
| CV | | 5 | 4.5 | 3.1 | 5.7 | 6.4 | 6.7 | 1.2 | 1.7 | 47.1 | 3.5 |
| LSD (.05) | | 310 | 540 | 400 | 730 | 790 | 0.8 | 0 | 1 | 12 | 1 |

Preliminary Lines and Varieties

| | | | | | | | | | | | |
|-----------|-----|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|---------|---------|
| 13Y1156 | LA | 9990 (1) | 10020 (3) | 9410 (10) | 9600 (2) | 10940 (1) | 14.4 (36) | 5.0 (8) | 85 (13) | 8 (23) | 38 (8) |
| 12Y2175 | MPQ | 9980 (2) | 10550 (2) | 9740 (4) | 9790 (1) | 9850 (7) | 17.0 (19) | 4.9 (31) | 89 (34) | 3 (16) | 41 (36) |
| 10Y2043 | S | 9660 (3) | 10950 (1) | 10520 (1) | 8970 (15) | 8210 (27) | 16.2 (25) | 4.9 (14) | 79 (3) | 93 (39) | 38 (11) |
| 13Y3131 | M | 9590 (4) | 9740 (7) | 9350 (13) | 9150 (8) | 10100 (2) | 17.5 (12) | 4.9 (14) | 86 (18) | 3 (15) | 41 (33) |
| 13Y3146 | M | 9500 (5) | 9550 (9) | 9360 (12) | 9220 (5) | 9890 (6) | 17.3 (15) | 5.0 (11) | 85 (15) | 16 (29) | 39 (16) |
| 13Y1059 | L | 9500 (6) | 9660 (8) | 9430 (9) | 9360 (3) | 9560 (11) | 15.0 (29) | 5.0 (11) | 84 (11) | 1 (1) | 40 (28) |
| 13Y3176 | M | 9470 (7) | 9790 (6) | 8860 (24) | 9170 (7) | 10050 (4) | 17.1 (17) | 4.9 (19) | 87 (30) | 1 (1) | 38 (13) |
| 10Y3737 | M | 9370 (8) | 9270 (13) | 9500 (7) | 9070 (11) | 9630 (10) | 17.4 (13) | 4.8 (38) | 88 (32) | 7 (22) | 39 (17) |
| 13Y3156 | M | 9300 (9) | 9460 (12) | 9670 (5) | 9040 (12) | 9040 (18) | 17.4 (14) | 4.9 (19) | 90 (35) | 1 (1) | 38 (9) |
| 13Y1106 | L | 9190 (10) | 8280 (24) | 9370 (11) | 9130 (9) | 10000 (5) | 14.5 (35) | 4.9 (19) | 83 (9) | 13 (26) | 38 (10) |
| 11Y3655 | M | 9190 (11) | 8820 (20) | 9770 (2) | 8990 (14) | 9170 (17) | 17.9 (8) | 5.0 (8) | 88 (33) | 2 (14) | 38 (12) |
| 11Y2182 | MPQ | 9170 (12) | 9480 (11) | 8950 (22) | 9260 (4) | 8990 (20) | 19.1 (4) | 4.9 (31) | 91 (37) | 1 (1) | 39 (23) |
| A202 | LA | 9170 (13) | 9810 (5) | 8660 (27) | 9180 (6) | 9020 (19) | 15.8 (27) | 5.0 (11) | 85 (15) | 6 (21) | 40 (31) |
| M208 | MB | 9150 (14) | 9070 (14) | 9120 (17) | 8640 (17) | 9780 (8) | 16.5 (23) | 5.0 (4) | 86 (22) | 8 (25) | 39 (21) |
| 13Y3177 | M | 9150 (15) | 9030 (15) | 9200 (16) | 8290 (25) | 10090 (3) | 17.1 (16) | 4.9 (19) | 85 (13) | 4 (18) | 39 (18) |
| 13Y3193 | M | 9090 (16) | 9820 (4) | 8940 (23) | 8920 (16) | 8700 (21) | 17.8 (9) | 4.9 (19) | 91 (36) | 1 (1) | 38 (4) |
| 13Y1132 | LJ | 9040 (17) | 9520 (10) | 8970 (20) | 8280 (26) | 9370 (13) | 14.9 (30) | 4.9 (19) | 89 (29) | 1 (1) | 38 (6) |
| 13Y3181 | M | 9040 (18) | 9010 (16) | 8740 (26) | 8990 (13) | 9410 (12) | 16.8 (20) | 4.9 (19) | 85 (17) | 1 (1) | 40 (29) |
| 13P358 | LJ | 8920 (19) | 8990 (17) | 8990 (19) | 8480 (20) | 9220 (14) | 16.3 (24) | 4.9 (19) | 87 (25) | 4 (17) | 40 (32) |
| 10Y3703 | M | 8880 (20) | 8910 (19) | 9760 (3) | 8590 (18) | 8270 (26) | 18.6 (6) | 4.9 (36) | 87 (27) | 14 (28) | 40 (30) |
| 13Y3158 | M | 8850 (21) | 8770 (21) | 8590 (28) | 8340 (23) | 9710 (9) | 16.1 (26) | 5.0 (8) | 87 (27) | 1 (1) | 38 (5) |
| M105 | M | 8830 (22) | 8570 (23) | 9070 (18) | 9100 (10) | 8590 (22) | 16.7 (22) | 4.9 (19) | 78 (2) | 39 (31) | 39 (19) |
| A201 | LA | 8750 (23) | 8090 (28) | 9490 (8) | 8250 (28) | 9190 (15) | 14.1 (37) | 4.9 (14) | 81 (7) | 13 (26) | 39 (25) |
| 11Y2230 | SPQ | 8520 (24) | 8220 (26) | 9590 (6) | 8430 (21) | 7830 (28) | 20.5 (2) | 5.0 (1) | 87 (25) | 75 (33) | 39 (15) |
| 12Y2107 | SWX | 8460 (25) | 7550 (31) | 8540 (29) | 8570 (19) | 9180 (16) | 17.7 (10) | 4.9 (30) | 83 (8) | 21 (30) | 39 (24) |
| M402 | MPQ | 8380 (26) | 8690 (22) | 8220 (33) | 8320 (24) | 8290 (24) | 21.3 (1) | 5.0 (1) | 102 (39) | 1 (1) | 39 (22) |
| 11Y2160 | SWX | 8200 (27) | 7160 (33) | 8960 (21) | 8410 (22) | 8270 (25) | 17.0 (18) | 4.9 (14) | 80 (5) | 60 (32) | 39 (14) |
| 13P296 | LJ | 8040 (28) | 7230 (32) | 8230 (32) | 8200 (29) | 8500 (23) | 14.7 (34) | 5.0 (4) | 84 (10) | 1 (1) | 43 (38) |
| 11Y106 | LJ | 7940 (29) | 8980 (18) | 8500 (30) | 7860 (30) | 6430 (35) | 14.7 (32) | 4.6 (39) | 86 (19) | 4 (18) | 42 (37) |
| 09Y2122 | S | 7900 (30) | 7710 (30) | 9350 (14) | 7430 (35) | 7130 (32) | 17.7 (11) | 4.9 (19) | 80 (4) | 78 (35) | 41 (35) |
| 13Y3224 | MPQ | 7800 (31) | 7110 (34) | 8780 (25) | 7800 (31) | 7510 (30) | 18.3 (7) | 4.9 (33) | 86 (21) | 86 (38) | 41 (34) |
| M203 | MPQ | 7720 (32) | 7750 (29) | 9340 (15) | 7760 (32) | 6030 (37) | 18.8 (5) | 5.0 (4) | 84 (12) | 77 (34) | 44 (39) |
| 12Y133 | LJ | 7710 (33) | 8240 (25) | 7990 (35) | 8260 (27) | 6320 (36) | 16.7 (21) | 4.9 (19) | 97 (38) | 1 (1) | 37 (1) |
| 13Y1117 | LA | 7560 (34) | 6520 (37) | 8430 (31) | 7660 (33) | 7620 (29) | 13.6 (38) | 4.9 (33) | 87 (30) | 1 (1) | 39 (20) |
| 12Y1178 | LJ | 7460 (35) | 8180 (27) | 7070 (38) | 7450 (34) | 7120 (33) | 15.7 (28) | 4.9 (37) | 86 (19) | 1 (1) | 40 (27) |
| 13Y3223 | MPQ | 7290 (36) | 6710 (35) | 8050 (34) | 7230 (36) | 7170 (31) | 19.6 (3) | 4.9 (33) | 86 (24) | 83 (36) | 40 (26) |
| CA201 | SLA | 6440 (37) | 4950 (39) | 7660 (36) | 6220 (37) | 6940 (34) | 14.7 (31) | 4.9 (14) | 81 (6) | 84 (37) | 38 (7) |
| CT202 | LB | 6280 (38) | 6310 (38) | 7210 (37) | 6150 (38) | 5460 (38) | 13.5 (39) | 5.0 (4) | 86 (22) | 5 (20) | 37 (3) |
| 12Y1054 | LB | 6040 (39) | 6710 (36) | 6750 (39) | 5520 (39) | 5160 (39) | 14.7 (33) | 5.0 (3) | 76 (1) | 8 (24) | 37 (2) |
| MEAN | | 8580 | 8540 | 8880 | 8390 | 8510 | 16.7 | 4.9 | 86 | 21 | 39 |
| CV | | 4.3 | 2.8 | 4.1 | 4.4 | 5.6 | 5.4 | 1.4 | 2.4 | 74.9 | 3.2 |
| LSD (.05) | | 370 | 480 | 740 | 740 | 970 | 0.9 | 0.1 | 2 | 16 | 1 |

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic; MB=medium blast resistant; SLA= short low amalose; WX=waxy.

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

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

Numbers in parentheses indicate relative rank in column.

Table 8. 2014 Biggs Early Rice Variety Trials

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) |
|-----------|------------|--------------------------------------|-------------------------------|----------------------|---------------------|----------------|-------------------|
| 13Y1073 | L | 10330 (1) | 15.0 (10) | 4.7 (12) | 79 (6) | 1 (1) | 35 (5) |
| 11Y2183 | MPQ | 9710 (2) | 18.1 (1) | 4.8 (5) | 91 (16) | 1 (1) | 36 (7) |
| 08Y3269 | M | 9670 (3) | 17.0 (5) | 4.8 (5) | 87 (12) | 6 (8) | 39 (15) |
| 12Y113 | MB | 9600 (4) | 17.6 (3) | 4.8 (11) | 83 (10) | 60 (13) | 38 (14) |
| 11Y1005 | L | 9280 (5) | 14.3 (11) | 4.8 (10) | 78 (5) | 1 (1) | 39 (16) |
| M206 | M | 9240 (6) | 16.8 (6) | 4.9 (2) | 80 (8) | 55 (12) | 37 (11) |
| M205 | M | 9140 (7) | 17.7 (2) | 4.8 (4) | 89 (15) | 1 (1) | 37 (9) |
| 11Y1008 | L | 9000 (8) | 14.3 (12) | 4.6 (16) | 79 (7) | 1 (1) | 36 (7) |
| 09Y2179 | S | 8760 (9) | 17.1 (4) | 4.8 (5) | 89 (14) | 1 (1) | 38 (13) |
| L206 | L | 8640 (10) | 13.9 (13) | 4.7 (14) | 78 (4) | 18 (9) | 33 (2) |
| 09Y2141 | SWX | 8310 (11) | 15.3 (8) | 4.8 (5) | 77 (3) | 50 (11) | 37 (10) |
| CH202 | SPQ | 7580 (12) | 15.2 (9) | 4.7 (14) | 80 (9) | 85 (16) | 33 (1) |
| S102 | S | 7320 (13) | 12.4 (15) | 4.9 (2) | 75 (1) | 70 (15) | 36 (6) |
| M202 | M | 7010 (14) | 16.2 (7) | 4.8 (5) | 88 (13) | 1 (1) | 38 (12) |
| CM101 | SWX | 6400 (15) | 10.5 (16) | 4.7 (13) | 76 (2) | 45 (10) | 35 (4) |
| CH201 | SPQ | 6220 (16) | 12.8 (14) | 5.0 (1) | 84 (11) | 68 (14) | 34 (3) |
| MEAN | | 8510 | 15.3 | 4.8 | 82 | 29 | 36 |
| CV | | 4.5 | 7.4 | 2.1 | 2.1 | 40.8 | 3.2 |
| LSD (.05) | | 540 | 1.6 | 0.1 | 2 | 17 | 2 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|----------|----------|---------|---------|
| 10Y2043 | S | 10950 (1) | 12.0 (38) | 4.8 (14) | 75 (2) | 97 (39) | 35 (5) |
| 12Y2175 | MPQ | 10550 (2) | 17.1 (9) | 4.6 (33) | 86 (30) | 11 (25) | 40 (37) |
| 13Y1156 | LA | 10020 (3) | 14.9 (26) | 4.8 (10) | 80 (9) | 18 (30) | 36 (12) |
| 13Y3193 | M | 9820 (4) | 17.4 (7) | 4.7 (20) | 87 (34) | 1 (1) | 37 (21) |
| A202 | LA | 9810 (5) | 14.6 (27) | 4.8 (11) | 82 (18) | 23 (31) | 40 (36) |
| 13Y3176 | M | 9790 (6) | 16.3 (19) | 4.7 (20) | 84 (23) | 1 (1) | 38 (25) |
| 13Y3131 | M | 9740 (7) | 16.7 (13) | 4.8 (14) | 82 (14) | 1 (1) | 39 (31) |
| 13Y1059 | L | 9660 (8) | 15.3 (24) | 4.8 (13) | 80 (9) | 1 (1) | 38 (27) |
| 13Y3146 | M | 9550 (9) | 16.8 (12) | 4.8 (11) | 82 (14) | 11 (25) | 37 (18) |
| 13Y1132 | LJ | 9520 (10) | 14.5 (28) | 4.7 (30) | 83 (21) | 1 (1) | 37 (14) |
| 11Y2182 | MPQ | 9480 (11) | 17.9 (1) | 4.6 (33) | 89 (36) | 1 (1) | 37 (17) |
| 13Y3156 | M | 9460 (12) | 16.7 (13) | 4.7 (20) | 87 (33) | 1 (1) | 36 (10) |
| 10Y3737 | M | 9270 (13) | 16.9 (10) | 4.3 (39) | 87 (34) | 1 (1) | 38 (27) |
| M208 | MB | 9070 (14) | 16.9 (10) | 4.9 (4) | 83 (19) | 1 (1) | 37 (22) |
| 13Y3177 | M | 9030 (15) | 16.6 (15) | 4.7 (20) | 82 (14) | 11 (25) | 37 (14) |
| 13Y3181 | M | 9010 (16) | 16.1 (21) | 4.7 (20) | 81 (13) | 1 (1) | 38 (27) |
| 13P358 | LJ | 8990 (17) | 15.5 (23) | 4.7 (28) | 83 (19) | 13 (29) | 40 (35) |
| 11Y106 | LJ | 8980 (18) | 15.2 (25) | 4.6 (35) | 89 (37) | 1 (1) | 42 (39) |
| 10Y3703 | M | 8910 (19) | 17.7 (3) | 4.8 (14) | 85 (27) | 1 (1) | 38 (30) |
| 11Y3655 | M | 8820 (20) | 17.4 (5) | 4.9 (7) | 86 (32) | 1 (1) | 37 (18) |
| 13Y3158 | M | 8770 (21) | 16.4 (18) | 4.9 (7) | 84 (25) | 1 (1) | 35 (5) |
| M402 | MPQ | 8690 (22) | 17.5 (4) | 5.0 (1) | 107 (39) | 1 (1) | 38 (25) |
| M105 | M | 8570 (23) | 16.5 (17) | 4.7 (20) | 75 (2) | 11 (25) | 36 (10) |
| 13Y1106 | L | 8280 (24) | 14.5 (29) | 4.7 (20) | 80 (12) | 1 (1) | 36 (8) |
| 12Y133 | LJ | 8240 (25) | 16.2 (20) | 4.7 (28) | 94 (38) | 1 (1) | 34 (3) |
| 11Y2230 | SPQ | 8220 (26) | 16.6 (16) | 5.0 (1) | 82 (14) | 35 (32) | 37 (14) |
| 12Y1178 | LJ | 8180 (27) | 15.7 (22) | 4.6 (32) | 84 (26) | 1 (1) | 38 (23) |
| A201 | LA | 8090 (28) | 14.0 (35) | 4.8 (14) | 79 (6) | 1 (1) | 36 (7) |
| M203 | MPQ | 7750 (29) | 17.2 (8) | 4.9 (4) | 83 (22) | 60 (37) | 42 (38) |
| 09Y2122 | S | 7710 (30) | 13.3 (37) | 4.7 (20) | 78 (5) | 50 (35) | 39 (33) |
| 12Y2107 | SWX | 7550 (31) | 13.4 (36) | 4.7 (30) | 79 (6) | 6 (24) | 38 (24) |
| 13P296 | LJ | 7230 (32) | 14.2 (31) | 4.9 (6) | 80 (8) | 1 (1) | 39 (34) |
| 11Y2160 | SWX | 7160 (33) | 14.1 (32) | 4.8 (14) | 76 (4) | 55 (36) | 36 (9) |
| 13Y3224 | MPQ | 7110 (34) | 17.4 (5) | 4.6 (36) | 86 (30) | 45 (34) | 39 (31) |
| 13Y3223 | MPQ | 6710 (35) | 17.8 (2) | 4.6 (36) | 85 (28) | 35 (32) | 37 (18) |
| 12Y1054 | LB | 6710 (36) | 14.4 (30) | 4.9 (3) | 68 (1) | 1 (1) | 33 (1) |
| 13Y1117 | LA | 6520 (37) | 14.1 (33) | 4.5 (38) | 85 (29) | 1 (1) | 36 (12) |
| CT202 | LB | 6310 (38) | 14.0 (34) | 4.9 (7) | 84 (24) | 1 (1) | 33 (2) |
| CA201 | SLA | 4950 (39) | 11.1 (39) | 4.8 (14) | 80 (9) | 80 (38) | 35 (4) |
| MEAN | | 8540 | 15.6 | 4.7 | 83 | 15 | 37 |
| CV | | 2.8 | 6.5 | 2.5 | 1.3 | 52.1 | 2.8 |
| LSD (.05) | | 480 | 2 | 0.2 | 2 | 16 | 2 |

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

MB=medium blast resistant; LA=long aromatic; SLA=short low amalose.

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

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

Numbers in parentheses indicate relative rank in column.

Table 9. 2014 Butte Early Rice Variety Trials

| <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) |
| 12Y113 | MB | 10040 (1) | 15.1 (8) | 5.0 (1) | 81 (9) | 64 (14) | 41 (13) |
| L206 | L | 9730 (2) | 13.2 (12) | 5.0 (1) | 80 (8) | 54 (12) | 38 (1) |
| 11Y1008 | L | 9680 (3) | 12.8 (15) | 5.0 (1) | 78 (3) | 1 (1) | 40 (11) |
| 09Y2141 | SWX | 9650 (4) | 15.9 (3) | 5.0 (1) | 78 (5) | 45 (11) | 41 (16) |
| M206 | M | 9610 (5) | 14.9 (9) | 5.0 (1) | 79 (7) | 33 (10) | 41 (15) |
| 13Y1073 | L | 9450 (6) | 13.2 (14) | 5.0 (1) | 81 (9) | 1 (1) | 38 (4) |
| M205 | M | 9140 (7) | 15.2 (6) | 5.0 (1) | 87 (13) | 1 (1) | 38 (1) |
| 08Y3269 | M | 9140 (8) | 15.2 (5) | 5.0 (1) | 84 (11) | 1 (1) | 38 (6) |
| CH202 | SPQ | 9120 (9) | 14.4 (10) | 5.0 (1) | 79 (6) | 68 (15) | 39 (8) |
| 09Y2179 | S | 8950 (10) | 16.7 (2) | 5.0 (1) | 90 (16) | 1 (1) | 40 (9) |
| 11Y2183 | MPQ | 8930 (11) | 16.7 (1) | 5.0 (1) | 89 (15) | 1 (1) | 38 (4) |
| 11Y1005 | L | 8660 (12) | 12.3 (16) | 5.0 (1) | 77 (2) | 1 (1) | 41 (14) |
| S102 | S | 8570 (13) | 13.7 (11) | 5.0 (1) | 76 (1) | 20 (9) | 40 (9) |
| M202 | M | 8360 (14) | 15.1 (7) | 5.0 (1) | 87 (13) | 1 (1) | 40 (12) |
| CH201 | SPQ | 8310 (15) | 15.3 (4) | 5.0 (1) | 86 (12) | 94 (16) | 38 (3) |
| CMI01 | SWX | 7570 (16) | 13.2 (13) | 5.0 (1) | 78 (4) | 61 (13) | 39 (7) |
| MEAN | | 9060 | 14.6 | 5.0 | 82 | 28 | 39 |
| CV | | 3.1 | 3.3 | | 0.8 | 70 | 3.1 |
| LSD (.05) | | 400 | 0.7 | | 1 | 28 | 2 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | |
| 10Y2043 | S | 10520 (1) | 14.6 (9) | 5.0 (1) | 79 (3) | 78 (35) | 37 (4) |
| 11Y3655 | M | 9770 (2) | 14.7 (7) | 5.0 (1) | 87 (35) | 6 (25) | 38 (7) |
| 10Y3703 | M | 9760 (3) | 14.6 (8) | 5.0 (1) | 85 (30) | 10 (26) | 41 (32) |
| 12Y2175 | MPQ | 9740 (4) | 13.5 (21) | 5.0 (1) | 86 (32) | 1 (1) | 41 (34) |
| 13Y3156 | M | 9670 (5) | 13.9 (18) | 5.0 (1) | 87 (34) | 1 (1) | 40 (29) |
| 11Y2230 | SPQ | 9590 (6) | 16.2 (2) | 5.0 (1) | 84 (21) | 97 (36) | 38 (10) |
| 10Y3737 | M | 9500 (7) | 13.9 (17) | 5.0 (1) | 83 (15) | 26 (29) | 39 (16) |
| A201 | LA | 9490 (8) | 11.9 (36) | 5.0 (1) | 81 (8) | 1 (1) | 41 (33) |
| 13Y1059 | L | 9430 (9) | 12.1 (33) | 5.0 (1) | 81 (8) | 1 (1) | 40 (24) |
| 13Y1156 | LA | 9410 (10) | 12.0 (34) | 5.0 (1) | 82 (12) | 11 (28) | 39 (19) |
| 13Y1106 | L | 9370 (11) | 12.8 (28) | 5.0 (1) | 82 (11) | 1 (1) | 40 (22) |
| 13Y3146 | M | 9360 (12) | 14.5 (11) | 5.0 (1) | 84 (21) | 1 (1) | 39 (18) |
| 13Y3131 | M | 9350 (13) | 14.3 (14) | 5.0 (1) | 84 (21) | 3 (23) | 41 (31) |
| 09Y2122 | S | 9350 (14) | 15.5 (4) | 5.0 (1) | 80 (5) | 65 (34) | 40 (24) |
| M203 | MPQ | 9340 (15) | 13.9 (18) | 5.0 (1) | 81 (10) | 97 (36) | 44 (38) |
| 13Y3177 | M | 9200 (16) | 14.8 (6) | 5.0 (1) | 83 (15) | 5 (24) | 39 (14) |
| M208 | MB | 9120 (17) | 12.9 (27) | 5.0 (1) | 84 (21) | 31 (31) | 40 (22) |
| M105 | M | 9070 (18) | 13.7 (20) | 5.0 (1) | 77 (2) | 36 (32) | 40 (24) |
| 13P358 | LJ | 8990 (19) | 12.7 (30) | 5.0 (1) | 84 (25) | 1 (1) | 41 (34) |
| 13Y1132 | LJ | 8970 (20) | 11.7 (38) | 5.0 (1) | 85 (30) | 1 (1) | 38 (9) |
| 11Y2160 | SWX | 8960 (21) | 14.3 (13) | 5.0 (1) | 79 (3) | 30 (30) | 40 (27) |
| 11Y2182 | MPQ | 8950 (22) | 14.8 (5) | 5.0 (1) | 86 (32) | 1 (1) | 40 (21) |
| 13Y3193 | M | 8940 (23) | 14.0 (16) | 5.0 (1) | 89 (37) | 1 (1) | 38 (6) |
| 13Y3176 | M | 8860 (24) | 13.4 (24) | 5.0 (1) | 84 (25) | 1 (1) | 38 (5) |
| 13Y3224 | MPQ | 8780 (25) | 14.5 (11) | 5.0 (1) | 83 (14) | 99 (38) | 42 (36) |
| 13Y3181 | M | 8740 (26) | 14.2 (15) | 5.0 (1) | 83 (15) | 1 (1) | 39 (12) |
| A202 | LA | 8660 (27) | 13.3 (25) | 5.0 (1) | 84 (25) | 1 (1) | 41 (30) |
| 13Y3158 | M | 8590 (28) | 13.2 (26) | 5.0 (1) | 84 (25) | 1 (1) | 37 (3) |
| 12Y2107 | SWX | 8540 (29) | 14.6 (9) | 5.0 (1) | 80 (5) | 1 (1) | 39 (14) |
| 11Y106 | LJ | 8500 (30) | 12.3 (31) | 5.0 (1) | 84 (25) | 10 (26) | 42 (36) |
| 13Y1117 | LA | 8430 (31) | 11.8 (37) | 5.0 (1) | 87 (35) | 1 (1) | 39 (12) |
| 13P296 | LJ | 8230 (32) | 12.2 (32) | 5.0 (1) | 83 (15) | 1 (1) | 45 (39) |
| M402 | MPQ | 8220 (33) | 18.5 (1) | 5.0 (1) | 99 (39) | 1 (1) | 39 (16) |
| 13Y3223 | MPQ | 8050 (34) | 15.6 (3) | 5.0 (1) | 83 (15) | 99 (38) | 40 (27) |
| 12Y133 | LJ | 7990 (35) | 13.5 (22) | 5.0 (1) | 93 (38) | 1 (1) | 37 (2) |
| CA201 | SLA | 7660 (36) | 13.4 (23) | 5.0 (1) | 80 (5) | 60 (33) | 39 (19) |
| CT202 | LB | 7210 (37) | 11.5 (39) | 5.0 (1) | 83 (15) | 1 (1) | 38 (7) |
| 12Y1178 | LJ | 7070 (38) | 12.8 (29) | 5.0 (1) | 82 (12) | 1 (1) | 38 (10) |
| 12Y1054 | LB | 6750 (39) | 12.0 (35) | 5.0 (1) | 73 (1) | 1 (1) | 37 (1) |
| MEAN | | 8880 | 13.7 | 5.0 | 83 | 20 | 40 |
| CV | | 4.1 | 5.3 | | 1 | 62.9 | 2.7 |
| LSD (.05) | | 740 | 1.5 | | 2 | 26 | 2 |

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

MB=medium blast resistant; SLA= short low amylose; WX=waxy.

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

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

Numbers in parentheses indicate relative rank in column.

Table 10. 2014 Colusa Early Rice Variety Trials

| <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) |
| 11Y1005 | L | 9760 (1) | 12.7 (16) | 5.0 (1) | 81 (5) | 1 (1) | 41 (15) |
| 11Y1008 | L | 9720 (2) | 13.6 (13) | 4.9 (15) | 83 (8) | 1 (1) | 41 (14) |
| 13Y1073 | L | 9670 (3) | 12.9 (15) | 5.0 (1) | 84 (10) | 1 (1) | 38 (5) |
| 12Y113 | MB | 9650 (4) | 17.7 (4) | 5.0 (1) | 83 (8) | 23 (11) | 40 (12) |
| 09Y2179 | S | 9640 (5) | 18.1 (3) | 5.0 (1) | 85 (11) | 1 (1) | 40 (13) |
| 08Y3269 | M | 9600 (6) | 16.9 (8) | 5.0 (1) | 90 (14) | 1 (1) | 40 (9) |
| 11Y2183 | MPQ | 9530 (7) | 19.4 (2) | 4.7 (16) | 94 (16) | 1 (1) | 39 (6) |
| L206 | L | 9380 (8) | 13.0 (14) | 5.0 (1) | 83 (6) | 1 (1) | 35 (1) |
| M205 | M | 9370 (9) | 17.5 (6) | 5.0 (1) | 90 (15) | 1 (1) | 37 (2) |
| M206 | M | 9280 (10) | 15.7 (12) | 5.0 (1) | 83 (7) | 6 (10) | 39 (8) |
| M202 | M | 8720 (11) | 17.2 (7) | 5.0 (1) | 86 (13) | 3 (9) | 39 (7) |
| 09Y2141 | SWX | 8310 (12) | 21.3 (1) | 5.0 (1) | 80 (4) | 97 (14) | 42 (16) |
| S102 | S | 8080 (13) | 16.2 (10) | 5.0 (14) | 77 (1) | 96 (13) | 40 (11) |
| CH201 | SPQ | 7740 (14) | 16.4 (9) | 5.0 (1) | 85 (12) | 74 (12) | 38 (3) |
| CH202 | SPQ | 7590 (15) | 17.5 (5) | 5.0 (1) | 80 (3) | 98 (15) | 38 (4) |
| CM101 | SWX | 7070 (16) | 16.1 (11) | 5.0 (1) | 79 (2) | 98 (15) | 40 (9) |
| MEAN | | 8940 | 16.4 | 5.0 | 84 | 31 | 39 |
| CV | | 5.7 | 4.3 | 1.5 | 1.2 | 32 | 4.2 |
| LSD (.05) | | 730 | 1 | 0.1 | 1 | 14 | 2 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | |
| 12Y2175 | MPQ | 9790 (1) | 14.9 (27) | 5.0 (1) | 90 (33) | 1 (1) | 42 (35) |
| 13Y1156 | LA | 9600 (2) | 13.1 (35) | 5.0 (1) | 87 (21) | 1 (1) | 37 (3) |
| 13Y1059 | L | 9360 (3) | 13.5 (33) | 5.0 (1) | 86 (12) | 1 (1) | 40 (24) |
| 11Y2182 | MPQ | 9260 (4) | 18.4 (6) | 5.0 (1) | 90 (33) | 1 (1) | 40 (28) |
| 13Y3146 | M | 9220 (5) | 16.4 (18) | 5.0 (1) | 87 (20) | 50 (30) | 39 (14) |
| A202 | LA | 9180 (6) | 14.3 (29) | 5.0 (1) | 86 (12) | 1 (1) | 40 (24) |
| 13Y3176 | M | 9170 (7) | 16.7 (13) | 5.0 (1) | 90 (33) | 1 (1) | 38 (8) |
| 13Y3131 | M | 9150 (8) | 15.9 (22) | 5.0 (1) | 86 (12) | 6 (27) | 39 (17) |
| 13Y1106 | L | 9130 (9) | 13.1 (34) | 5.0 (1) | 83 (7) | 1 (1) | 38 (8) |
| M105 | M | 9100 (10) | 15.4 (25) | 5.0 (1) | 78 (2) | 60 (33) | 38 (8) |
| 10Y3737 | M | 9070 (11) | 16.5 (15) | 5.0 (1) | 90 (31) | 1 (1) | 39 (12) |
| 13Y3156 | M | 9040 (12) | 16.5 (15) | 5.0 (1) | 91 (37) | 1 (1) | 38 (11) |
| 13Y3181 | M | 8990 (13) | 16.2 (19) | 5.0 (1) | 86 (18) | 1 (1) | 41 (34) |
| 11Y3655 | M | 8990 (14) | 16.9 (12) | 5.0 (1) | 89 (29) | 1 (1) | 40 (24) |
| 10Y2043 | S | 8970 (15) | 16.0 (21) | 5.0 (1) | 78 (3) | 99 (36) | 40 (19) |
| 13Y3193 | M | 8920 (16) | 16.9 (11) | 5.0 (1) | 89 (29) | 1 (1) | 38 (6) |
| M208 | MB | 8640 (17) | 16.4 (17) | 5.0 (1) | 86 (18) | 1 (1) | 39 (17) |
| 10Y3703 | M | 8590 (18) | 17.6 (7) | 4.8 (37) | 87 (21) | 1 (1) | 39 (14) |
| 12Y2107 | SWX | 8570 (19) | 18.8 (4) | 5.0 (1) | 86 (12) | 6 (27) | 40 (29) |
| 13P358 | LJ | 8480 (20) | 15.7 (23) | 5.0 (1) | 87 (21) | 1 (1) | 40 (19) |
| 11Y2230 | SPQ | 8430 (21) | 21.6 (2) | 5.0 (1) | 90 (31) | 75 (34) | 40 (23) |
| 11Y2160 | SWX | 8410 (22) | 17.3 (9) | 5.0 (1) | 82 (6) | 55 (32) | 39 (14) |
| 13Y3158 | M | 8340 (23) | 15.6 (24) | 5.0 (1) | 88 (27) | 1 (1) | 40 (19) |
| M402 | MPQ | 8320 (24) | 23.4 (1) | 5.0 (1) | 99 (39) | 1 (1) | 40 (24) |
| 13Y3177 | M | 8290 (25) | 16.0 (20) | 5.0 (1) | 86 (12) | 1 (1) | 40 (29) |
| 13Y1132 | LJ | 8280 (26) | 14.8 (28) | 5.0 (1) | 91 (36) | 1 (1) | 37 (1) |
| 12Y133 | LJ | 8260 (27) | 16.6 (14) | 5.0 (1) | 97 (38) | 1 (1) | 38 (6) |
| A201 | LA | 8250 (28) | 12.9 (36) | 5.0 (1) | 83 (8) | 1 (1) | 40 (19) |
| 13P296 | LJ | 8200 (29) | 13.8 (32) | 5.0 (1) | 85 (11) | 1 (1) | 43 (39) |
| 11Y106 | LJ | 7860 (30) | 13.9 (30) | 3.7 (39) | 85 (10) | 1 (1) | 42 (37) |
| 13Y3224 | MPQ | 7800 (31) | 17.4 (8) | 5.0 (1) | 86 (12) | 99 (36) | 41 (33) |
| M203 | MPQ | 7760 (32) | 17.1 (10) | 5.0 (1) | 84 (9) | 50 (30) | 42 (37) |
| 13Y1117 | LA | 7660 (33) | 12.4 (37) | 5.0 (1) | 88 (27) | 1 (1) | 41 (32) |
| 12Y1178 | LJ | 7450 (34) | 13.8 (31) | 4.8 (37) | 87 (21) | 1 (1) | 42 (35) |
| 09Y2122 | S | 7430 (35) | 20.1 (3) | 5.0 (1) | 80 (4) | 99 (36) | 41 (31) |
| 13Y3223 | MPQ | 7230 (36) | 18.5 (5) | 5.0 (1) | 87 (21) | 99 (36) | 39 (13) |
| CA201 | SLA | 6220 (37) | 15.1 (26) | 5.0 (1) | 80 (5) | 97 (35) | 38 (4) |
| CT202 | LB | 6150 (38) | 11.8 (39) | 5.0 (1) | 87 (21) | 1 (1) | 38 (4) |
| 12Y1054 | LB | 5520 (39) | 12.0 (38) | 5.0 (1) | 72 (1) | 21 (29) | 37 (1) |
| MEAN | | 8390 | 16.0 | 5.0 | 86 | 22 | 40 |
| CV | | 4.4 | 4.2 | 1.3 | 1.1 | 78 | 3.6 |
| LSD (.05) | | 740 | 1.4 | 0.1 | 2 | 34 | 3 |

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

MB=medium blast resistant; SLA= short low amaloose; WX=waxy.

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

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

Numbers in parentheses indicate relative rank in column.

Table 11. 2014 Yuba Early Rice Variety Trials

| <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) |
| 11Y1005 | L | 10810 (1) | 16.4 (12) | 5.0 (1) | 85 (9) | 15 (2) | 45 (15) |
| 13Y1073 | L | 10120 (2) | 15.4 (15) | 5.0 (1) | 84 (8) | 33 (5) | 41 (4) |
| 11Y1008 | L | 10050 (3) | 16.0 (13) | 5.0 (1) | 84 (7) | 18 (3) | 44 (14) |
| L206 | L | 9260 (4) | 14.1 (16) | 5.0 (1) | 81 (2) | 97 (11) | 39 (1) |
| M205 | M | 9120 (5) | 21.7 (7) | 5.0 (1) | 93 (14) | 18 (3) | 42 (7) |
| M206 | M | 8950 (6) | 21.0 (8) | 5.0 (1) | 84 (5) | 90 (10) | 42 (10) |
| 11Y2183 | MPQ | 8920 (7) | 22.0 (5) | 5.0 (1) | 95 (15) | 47 (7) | 42 (6) |
| 12Y113 | MB | 8820 (8) | 21.9 (6) | 5.0 (1) | 85 (9) | 72 (9) | 42 (7) |
| 08Y3269 | M | 8800 (9) | 22.9 (4) | 5.0 (1) | 92 (13) | 33 (5) | 42 (9) |
| 09Y2179 | S | 8330 (10) | 24.0 (1) | 5.0 (1) | 97 (16) | 1 (1) | 42 (11) |
| 09Y2141 | SWX | 8010 (11) | 23.0 (3) | 5.0 (1) | 82 (4) | 97 (11) | 45 (16) |
| M202 | M | 8010 (12) | 23.7 (2) | 5.0 (1) | 90 (12) | 71 (8) | 42 (12) |
| S102 | S | 7420 (13) | 15.7 (14) | 5.0 (1) | 79 (1) | 99 (14) | 43 (13) |
| CH202 | SPQ | 7370 (14) | 20.5 (9) | 5.0 (1) | 84 (6) | 98 (13) | 41 (4) |
| CH201 | SPQ | 7290 (15) | 19.7 (10) | 5.0 (1) | 89 (11) | 99 (14) | 40 (2) |
| CM101 | SWX | 7120 (16) | 18.3 (11) | 5.0 (1) | 81 (2) | 99 (14) | 41 (3) |
| MEAN | | 8650 | 19.8 | 5.0 | 86 | 62 | 42 |
| CV | | 6.4 | 8.6 | | 2.1 | 40.6 | 3.1 |
| LSD (.05) | | 790 | 2.4 | | 3 | 36 | 2 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | |
| 13Y1156 | LA | 10940 (1) | 17.7 (34) | 5.0 (1) | 90 (18) | 1 (1) | 39 (6) |
| 13Y3131 | M | 10100 (2) | 23.0 (10) | 5.0 (1) | 92 (26) | 1 (1) | 43 (36) |
| 13Y3177 | M | 10090 (3) | 21.2 (22) | 5.0 (1) | 89 (13) | 1 (1) | 40 (17) |
| 13Y3176 | M | 10050 (4) | 21.9 (17) | 5.0 (1) | 92 (28) | 1 (1) | 40 (12) |
| 13Y1106 | L | 10000 (5) | 17.7 (36) | 5.0 (1) | 89 (13) | 50 (28) | 39 (5) |
| 13Y3146 | M | 9890 (6) | 21.5 (19) | 5.0 (1) | 88 (11) | 1 (1) | 39 (10) |
| 12Y2175 | MPQ | 9850 (7) | 22.4 (12) | 5.0 (1) | 96 (35) | 1 (1) | 40 (23) |
| M208 | MB | 9780 (8) | 19.8 (28) | 5.0 (1) | 92 (26) | 1 (1) | 40 (12) |
| 13Y3158 | M | 9710 (9) | 19.3 (30) | 5.0 (1) | 92 (28) | 1 (1) | 39 (8) |
| 10Y3737 | M | 9630 (10) | 22.3 (14) | 5.0 (1) | 92 (28) | 1 (1) | 39 (10) |
| 13Y1059 | L | 9560 (11) | 18.9 (31) | 5.0 (1) | 88 (12) | 1 (1) | 41 (28) |
| 13Y3181 | M | 9410 (12) | 20.7 (24) | 5.0 (1) | 91 (23) | 1 (1) | 41 (28) |
| 13Y1132 | LJ | 9370 (13) | 18.4 (33) | 5.0 (1) | 91 (23) | 1 (1) | 40 (12) |
| 13P358 | LJ | 9220 (14) | 21.4 (20) | 5.0 (1) | 93 (33) | 1 (1) | 41 (24) |
| A201 | LA | 9190 (15) | 17.7 (35) | 5.0 (1) | 83 (3) | 50 (28) | 41 (27) |
| 12Y2107 | SWX | 9180 (16) | 24.2 (7) | 5.0 (1) | 87 (8) | 73 (31) | 41 (24) |
| 11Y3655 | M | 9170 (17) | 22.7 (11) | 5.0 (1) | 91 (23) | 1 (1) | 38 (4) |
| 13Y3156 | M | 9040 (18) | 22.4 (13) | 5.0 (1) | 95 (34) | 1 (1) | 37 (1) |
| A202 | LA | 9020 (19) | 21.0 (23) | 5.0 (1) | 87 (10) | 1 (1) | 40 (20) |
| 11Y2182 | MPQ | 8990 (20) | 25.4 (5) | 5.0 (1) | 99 (37) | 1 (1) | 40 (20) |
| 13Y3193 | M | 8700 (21) | 23.1 (9) | 5.0 (1) | 98 (36) | 1 (1) | 38 (2) |
| M105 | M | 8590 (22) | 21.2 (21) | 5.0 (1) | 82 (2) | 50 (28) | 42 (30) |
| 13P296 | LJ | 8500 (23) | 18.4 (32) | 5.0 (1) | 87 (8) | 1 (1) | 45 (38) |
| M402 | MPQ | 8290 (24) | 25.7 (4) | 5.0 (1) | 101 (38) | 1 (1) | 40 (12) |
| 11Y2160 | SWX | 8270 (25) | 22.3 (15) | 5.0 (1) | 84 (5) | 99 (33) | 39 (9) |
| 10Y3703 | M | 8270 (26) | 24.4 (6) | 5.0 (1) | 92 (28) | 46 (27) | 42 (32) |
| 10Y2043 | S | 8210 (27) | 22.3 (16) | 5.0 (1) | 83 (3) | 99 (33) | 41 (24) |
| 11Y2230 | SPQ | 7830 (28) | 27.7 (1) | 5.0 (1) | 92 (28) | 95 (32) | 40 (17) |
| 13Y1117 | LA | 7620 (29) | 16.1 (39) | 5.0 (1) | 89 (15) | 1 (1) | 40 (20) |
| 13Y3224 | MPQ | 7510 (30) | 23.8 (8) | 5.0 (1) | 90 (18) | 99 (33) | 42 (30) |
| 13Y3223 | MPQ | 7170 (31) | 26.4 (3) | 5.0 (1) | 89 (15) | 99 (33) | 43 (34) |
| 09Y2122 | S | 7130 (32) | 21.9 (18) | 5.0 (1) | 82 (1) | 99 (33) | 44 (37) |
| 12Y1178 | LJ | 7120 (33) | 20.5 (26) | 5.0 (1) | 89 (15) | 1 (1) | 42 (32) |
| CA201 | SLA | 6940 (34) | 19.4 (29) | 5.0 (1) | 84 (6) | 99 (33) | 40 (17) |
| 11Y106 | LJ | 6430 (35) | 17.5 (37) | 5.0 (1) | 85 (7) | 6 (24) | 43 (34) |
| 12Y133 | LJ | 6320 (36) | 20.6 (25) | 5.0 (1) | 102 (39) | 1 (1) | 38 (2) |
| M203 | MPQ | 6030 (37) | 27.1 (2) | 5.0 (1) | 90 (18) | 99 (33) | 48 (39) |
| CT202 | LB | 5460 (38) | 16.8 (38) | 5.0 (1) | 90 (18) | 15 (26) | 39 (6) |
| 12Y1054 | LB | 5160 (39) | 20.3 (27) | 5.0 (1) | 90 (18) | 11 (25) | 40 (12) |
| MEAN | | 8510 | 21.4 | 5.0 | 90 | 28 | 41 |
| CV | | 5.6 | 5.2 | | 4.1 | 79.3 | 3.6 |
| LSD (.05) | | 970 | 2.3 | | 8 | 46 | 3 |

S=short; M=medium; L=long; PQ=premium quality; A=aromatic; LB=Basmati; J=Jasmine; LA=long aromatic; MB=medium blast resistant; SLA= short low amaloose; WX=waxy.

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

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

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 (2010-2014)

| Location | Year | Calhikari | | | | | Calmati | | |
|----------------------|------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|
| | | 201 | S-102 | M-202 | M-105 | M-205 | M-206 | 202 | L-206 |
| Biggs (RES) | 2010 | 9390 | 9400 | 10210 | 11530 | 10790 | 10990 | 8730 | 11090 |
| | 2011 | 9210 | 10230 | 9660 | 9490 | 10610 | 10050 | 5410 | 10020 |
| | 2012 | 8680 | 9500 | 9770 | 10250 | 10530 | 9980 | 7990 | 10510 |
| | 2013 | 8490 | 8640 | 7640 | 7820 | 9230 | 8160 | 5700 | 8420 |
| | 2014 | 6220 | 7320 | 7010 | 8570 | 9140 | 9240 | 6310 | 8640 |
| Location Mean | | 8398 | 9018 | 8858 | 9532 | 10060 | 9684 | 6828 | 9736 |
| Butte | 2010 | 7900 | 7330 | 8190 | 8530 | 7950 | 8440 | 6770 | 8400 |
| | 2011 | 8060 | 8280 | 8180 | 9270 | 8860 | 8520 | 8020 | 9330 |
| | 2012 | 8080 | 8220 | 8650 | 9490 | 9600 | 9240 | 7910 | 9380 |
| | 2013 | 7840 | 8650 | 7870 | 9640 | 8960 | 9020 | 6450 | 9390 |
| | 2014 | 8310 | 8570 | 8360 | 9070 | 9140 | 9610 | 7210 | 9730 |
| Location Mean | | 8038 | 8210 | 8250 | 9200 | 8902 | 8966 | 7272 | 9246 |
| Colusa | 2010 | 9510 | 10190 | 10910 | 10930 | 11190 | 10560 | 4690 | 10440 |
| | 2011 | 6040 | 7420 | 9350 | 7580 | 9760 | 9960 | 5210 | 9660 |
| | 2012 | 7430 | 7460 | 8630 | 8620 | 9130 | 9680 | 5340 | 9400 |
| | 2013 | 7840 | 7220 | 9140 | 9750 | 8930 | 9660 | 5970 | 10250 |
| | 2014 | 7740 | 8080 | 8720 | 9100 | 9370 | 9280 | 6150 | 9380 |
| Location Mean | | 7712 | 8074 | 9350 | 9196 | 9676 | 9828 | 5472 | 9826 |
| Yuba | 2010 | 8350 | 10010 | 10220 | 10040 | 9370 | 10330 | 5470 | 9070 |
| | 2011 | 7800 | 8740 | 9300 | 9800 | 10000 | 10190 | 6030 | 10160 |
| | 2012 | 6080 | 7970 | 9220 | 8510 | 8840 | 9240 | 5570 | 9100 |
| | 2013 | 8040 | 9280 | 8950 | 9330 | 9650 | 9750 | 5750 | 9590 |
| | 2014 | 7290 | 7420 | 8010 | 8590 | 9120 | 8950 | 5460 | 9260 |
| Location Mean | | 7512 | 8684 | 9140 | 9254 | 9396 | 9692 | 5656 | 9436 |
| Loc/Years Mean | | 7915 | 8497 | 8900 | 9296 | 9509 | 9543 | 6307 | 9561 |
| Yield % M-202 | | 88.9 | 95.5 | 100 | 104.4 | 106.8 | 107.2 | 70.9 | 107.4 |
| Number of Tests | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Table 13. 2014 Two Location Intermediate/Late Rice Variety Trials*

Advanced Lines and Varieties

| Variety | Grain Type | Ave Grain Yield at 14% Moisture | Single Location Yields | | Ave Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (1-99) | Plant Height (in) |
|-----------|------------|---------------------------------|------------------------|-----------|-----------------------------------|----------------------|---------------------|----------------|-------------------|
| | | lbs/acre | Biggs | Glenn | | | | | |
| 11Y2183 | MPQ | 10350 (1) | 10990 (3) | 9720 (1) | 17.1 (3) | 4.7 (8) | 91 (10) | 1 (1) | 40 (6) |
| 13Y3212 | MB | 10180 (2) | 11210 (2) | 9140 (2) | 16.9 (4) | 4.8 (5) | 85 (5) | 14 (9) | 40 (7) |
| 11Y1005 | L | 9970 (3) | 10990 (4) | 8950 (3) | 14.2 (10) | 4.9 (3) | 83 (4) | 3 (5) | 40 (8) |
| 08Y3269 | M | 9940 (4) | 11270 (1) | 8610 (8) | 16.4 (6) | 4.7 (9) | 88 (8) | 1 (1) | 41 (11) |
| M205 | M | 9730 (5) | 10550 (6) | 8910 (5) | 17.4 (2) | 4.6 (11) | 90 (9) | 1 (1) | 39 (5) |
| L206 | L | 9600 (6) | 10340 (7) | 8870 (6) | 14.7 (9) | 4.8 (6) | 81 (1) | 10 (6) | 36 (1) |
| M402 | MPQ | 9480 (7) | 10040 (8) | 8910 (4) | 17.8 (1) | 4.9 (3) | 103 (11) | 2 (4) | 41 (10) |
| M206 | M | 9420 (8) | 10570 (5) | 8270 (11) | 15.9 (7) | 4.8 (6) | 83 (3) | 12 (8) | 39 (4) |
| CH202 | SPQ | 8830 (9) | 9050 (9) | 8620 (7) | 15.6 (8) | 4.6 (10) | 82 (2) | 64 (11) | 36 (2) |
| M202 | M | 8690 (10) | 8870 (10) | 8510 (9) | 16.7 (5) | 5 (1) | 87 (7) | 11 (7) | 41 (9) |
| CH201 | SPQ | 8510 (11) | 8560 (11) | 8460 (10) | 13.6 (11) | 5 (1) | 86 (6) | 49 (10) | 37 (3) |
| MEAN | | 9520 | 10220 | 8820 | 16 | 4.8 | 87 | 15 | 39 |
| CV | | 4.9 | 4.9 | 5.0 | 5.1 | 4 | 1.4 | 112.8 | 4.2 |
| LSD (.05) | | 470 | 720 | 630 | 0.8 | 0.2 | 1 | 17 | 2 |

Preliminary Lines and Varieties

| | | | | | | | | | |
|-----------|-----|------------------|-----------|-----------|-----------|----------|----------|---------|---------|
| 12Y1022 | LA | 10050 (1) | 10640 (2) | 9460 (5) | 14.2 (17) | 4.9 (7) | 86 (8) | 1 (1) | 40 (11) |
| 13P266 | LJ | 9990 (2) | 10090 (7) | 9890 (2) | 13.0 (21) | 4.5 (21) | 86 (11) | 17 (14) | 37 (3) |
| M208 | MB | 9850 (3) | 10600 (3) | 9100 (8) | 15.1 (11) | 4.7 (12) | 86 (11) | 3 (6) | 40 (13) |
| 12Y1176 | L | 9790 (4) | 10460 (4) | 9120 (7) | 14.4 (16) | 4.8 (10) | 85 (5) | 11 (13) | 42 (21) |
| M401 | MPQ | 9730 (5) | 9550 (12) | 9900 (1) | 22.1 (1) | 4.9 (6) | 108 (24) | 21 (15) | 43 (22) |
| 11Y2182 | MPQ | 9710 (6) | 10780 (1) | 8650 (12) | 17.2 (2) | 4.3 (23) | 92 (22) | 6 (10) | 41 (15) |
| 09Y2141 | SWX | 9540 (7) | 10260 (5) | 8810 (10) | 14.5 (14) | 4.6 (18) | 80 (2) | 8 (11) | 39 (8) |
| A202 | LA | 9490 (8) | 10210 (6) | 8760 (11) | 14.5 (15) | 5.0 (2) | 85 (7) | 8 (11) | 40 (12) |
| 12Y135 | LJ | 9250 (9) | 8770 (14) | 9740 (3) | 15.0 (12) | 5.0 (2) | 92 (21) | 5 (9) | 38 (4) |
| 12Y2178 | SPQ | 9080 (10) | 9590 (11) | 8570 (13) | 14.6 (13) | 4.7 (12) | 93 (23) | 23 (16) | 38 (5) |
| 11Y106 | LJ | 9070 (11) | 9720 (9) | 8420 (14) | 14.1 (18) | 4.7 (11) | 88 (17) | 43 (22) | 43 (23) |
| 13P277 | LJ | 9040 (12) | 8490 (15) | 9590 (4) | 12.4 (24) | 5.0 (1) | 86 (9) | 1 (1) | 39 (7) |
| 13Y3219 | MB | 8980 (13) | 9900 (8) | 8070 (16) | 16.3 (4) | 4.6 (19) | 84 (4) | 1 (1) | 41 (17) |
| 13Y1178 | LJ | 8700 (14) | 8060 (19) | 9330 (6) | 12.8 (23) | 4.6 (16) | 86 (9) | 3 (6) | 39 (9) |
| M105 | M | 8510 (15) | 9650 (10) | 7370 (19) | 16.0 (7) | 3.7 (25) | 81 (3) | 35 (18) | 40 (14) |
| 13Y3224 | MPQ | 8510 (16) | 7990 (20) | 9030 (9) | 16.1 (6) | 3.8 (24) | 86 (11) | 40 (19) | 41 (18) |
| 13Y3220 | MPQ | 8390 (17) | 8800 (13) | 7980 (17) | 15.5 (10) | 4.8 (9) | 87 (16) | 43 (21) | 40 (10) |
| 13Y3223 | MPQ | 8090 (18) | 8060 (18) | 8120 (15) | 15.9 (8) | 4.3 (22) | 87 (15) | 51 (23) | 41 (16) |
| M203 | MPQ | 8040 (19) | 8280 (16) | 7810 (18) | 15.9 (9) | 5.0 (2) | 86 (11) | 55 (24) | 45 (25) |
| CM101 | SWX | 7370 (20) | 8180 (17) | 6570 (20) | 12.1 (25) | 4.7 (12) | 78 (1) | 40 (20) | 38 (6) |
| 13Y135 | LB | 6910 (21) | 7330 (22) | 6490 (21) | 12.9 (22) | 4.6 (16) | 90 (19) | 1 (1) | 37 (2) |
| 13Y1055 | LB | 6670 (22) | 7590 (21) | 5760 (23) | 13.3 (20) | 4.5 (20) | 85 (5) | 1 (1) | 37 (1) |
| 13P477 | LB | 6200 (23) | 6600 (23) | 5810 (22) | 14.1 (19) | 4.9 (7) | 88 (17) | 33 (17) | 42 (20) |
| 13P454 | LB | 5680 (24) | 6200 (24) | 5160 (25) | 16.6 (3) | 5.0 (2) | 91 (20) | 3 (6) | 41 (19) |
| KOSH | SPQ | 5610 (25) | 5550 (25) | 5660 (24) | 16.2 (5) | 4.7 (15) | 113 (25) | 95 (25) | 45 (24) |
| MEAN | | 8490 | 8850 | 8130 | 15.0 | 4.6 | 88 | 22 | 40 |
| CV | | 5.4 | 5.4 | 5.5 | 5.6 | 7.8 | 1.8 | 71.3 | 3.8 |
| LSD (.05) | | 660 | 980 | 930 | 1.2 | 0.5 | 2 | 22 | 2 |

S=short; M=medium; L=long; PQ=premium quality; WX=waxy; A=aromatic; LB=long Basmati; J=Jasmine; MB=medium blast 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.

* The Sutter trial was not included in this summary due to an unusually high yield cv and low yields.

Table 14. 2014 Biggs Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield | Grain | Seedling | Days to | Lodging | Plant |
|-----------|------------|--------------------------------|-------------------------------|----------------|----------------|---------|----------------|
| | | at 14% Moisture lbs/acre | Moisture at Harvest (%) | Vigor (1-5) | 50% Heading | (1-99) | Height (in) |
| 08Y3269 | M | 11270 (1) | 16.2 (6) | 4.9 (4) | 86 (8) | 1 (1) | 39 (11) |
| 13Y3212 | MB | 11210 (2) | 16.6 (4) | 4.9 (4) | 81 (5) | 1 (1) | 39 (10) |
| 11Y2183 | MPQ | 10990 (3) | 16.8 (3) | 4.9 (4) | 88 (10) | 1 (1) | 37 (5) |
| 11Y1005 | L | 10990 (4) | 13.5 (10) | 4.9 (10) | 79 (3) | 1 (1) | 37 (6) |
| M206 | M | 10570 (5) | 16.5 (5) | 4.9 (4) | 79 (3) | 23 (9) | 38 (7) |
| M205 | M | 10550 (6) | 16.9 (2) | 4.9 (4) | 87 (9) | 1 (1) | 36 (3) |
| L206 | L | 10340 (7) | 14.3 (9) | 4.9 (11) | 78 (1) | 1 (1) | 36 (4) |
| M402 | MPQ | 10040 (8) | 17.7 (1) | 5.0 (1) | 101 (11) | 1 (1) | 39 (9) |
| CH202 | SPQ | 9050 (9) | 15.7 (8) | 4.9 (9) | 79 (2) | 90 (11) | 34 (1) |
| M202 | M | 8870 (10) | 16.0 (7) | 5.0 (2) | 85 (7) | 1 (1) | 38 (8) |
| CH201 | SPQ | 8560 (11) | 11.6 (11) | 5.0 (2) | 82 (6) | 70 (10) | 35 (2) |
| MEAN | | 10220 | 15.6 | 4.9 | 84 | 17 | 37 |
| CV | | 4.9 | 6.1 | 1.3 | 1.7 | 72.9 | 3.6 |
| LSD (.05) | | 720 | 1.4 | | 2 | 18 | 2 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|----------|----------|---------|---------|
| 11Y2182 | MPQ | 10780 (1) | 16.4 (4) | 4.9 (21) | 89 (20) | 1 (1) | 39 (16) |
| 12Y1022 | LA | 10640 (2) | 13.6 (18) | 4.9 (4) | 81 (5) | 1 (1) | 38 (12) |
| M208 | MB | 10600 (3) | 15.3 (10) | 4.9 (4) | 84 (12) | 1 (1) | 38 (14) |
| 12Y1176 | L | 10460 (4) | 14.0 (15) | 4.9 (21) | 80 (4) | 1 (1) | 40 (23) |
| 09Y2141 | SWX | 10260 (5) | 12.0 (24) | 5.0 (2) | 75 (2) | 6 (17) | 37 (8) |
| A202 | LA | 10210 (6) | 14.2 (13) | 4.9 (4) | 83 (11) | 1 (1) | 39 (18) |
| 13P266 | LJ | 10090 (7) | 12.6 (22) | 4.9 (4) | 81 (8) | 1 (1) | 36 (3) |
| 13Y3219 | MB | 9900 (8) | 16.5 (3) | 4.9 (4) | 81 (6) | 1 (1) | 38 (13) |
| 11Y106 | LJ | 9720 (9) | 13.9 (16) | 4.9 (21) | 85 (16) | 1 (1) | 40 (22) |
| M105 | M | 9650 (10) | 15.5 (9) | 4.9 (4) | 76 (3) | 40 (22) | 39 (18) |
| 12Y2178 | SPQ | 9590 (11) | 14.2 (14) | 4.9 (4) | 91 (23) | 45 (23) | 35 (2) |
| M401 | MPQ | 9550 (12) | 21.1 (1) | 5.0 (2) | 106 (24) | 1 (1) | 39 (21) |
| 13Y3220 | MPQ | 8800 (13) | 16.0 (6) | 4.9 (4) | 86 (17) | 11 (19) | 37 (11) |
| 12Y135 | LJ | 8770 (14) | 14.3 (12) | 4.9 (4) | 89 (22) | 1 (1) | 36 (5) |
| 13P277 | LJ | 8490 (15) | 12.5 (23) | 5.0 (1) | 82 (9) | 1 (1) | 39 (17) |
| M203 | MPQ | 8280 (16) | 15.5 (8) | 4.9 (4) | 85 (15) | 15 (21) | 44 (24) |
| CM101 | SWX | 8180 (17) | 9.1 (25) | 4.9 (4) | 74 (1) | 75 (24) | 36 (7) |
| 13Y3223 | MPQ | 8060 (18) | 16.2 (5) | 4.9 (4) | 84 (13) | 13 (20) | 38 (15) |
| 13Y1178 | LJ | 8060 (19) | 12.8 (20) | 4.9 (21) | 81 (6) | 1 (1) | 37 (9) |
| 13Y3224 | MPQ | 7990 (20) | 16.6 (2) | 4.9 (4) | 84 (13) | 10 (18) | 39 (18) |
| 13Y1055 | LB | 7590 (21) | 12.8 (19) | 4.9 (4) | 82 (9) | 1 (1) | 35 (1) |
| 13Y135 | LB | 7330 (22) | 12.6 (21) | 4.9 (4) | 86 (19) | 1 (1) | 36 (3) |
| 13P477 | LB | 6600 (23) | 13.6 (17) | 4.9 (21) | 86 (17) | 1 (1) | 37 (10) |
| 13P454 | LB | 6200 (24) | 15.1 (11) | 4.9 (4) | 89 (21) | 1 (1) | 36 (5) |
| KOSH | SPQ | 5550 (25) | 15.6 (7) | 4.9 (4) | 124 (25) | 90 (25) | 45 (25) |
| MEAN | | 8850 | 14.5 | 4.9 | 85 | 13 | 38 |
| CV | | 5.4 | 4.8 | 0.8 | 2.4 | 110.4 | 3.9 |
| LSD (.05) | | 980 | 1.4 | | 4 | 29 | 3 |

S=short; M=medium; L=long; PQ=premium quality; WX=waxy; A=aromatic; LB=long Basmati;

J=Jasmine; MB=medium blast 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. 2014 Glenn Intermediate-Late Rice Variety Trials

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) |
|-----------|------------|--------------------------------------|-------------------------------|----------------------|---------------------|----------------|-------------------|
| 11Y2183 | MPQ | 9720 (1) | 17.4 (4) | 4.5 (8) | 94 (10) | 1 (1) | 43 (9) |
| 13Y3212 | MB | 9140 (2) | 17.1 (5) | 4.7 (6) | 89 (5) | 28 (9) | 41 (5) |
| 11Y1005 | L | 8950 (3) | 14.8 (11) | 5.0 (1) | 87 (4) | 6 (6) | 44 (11) |
| M402 | MPQ | 8910 (4) | 18.0 (1) | 4.9 (4) | 106 (11) | 3 (5) | 43 (7) |
| M205 | M | 8910 (5) | 17.9 (2) | 4.3 (11) | 93 (9) | 1 (1) | 43 (7) |
| L206 | L | 8870 (6) | 15.1 (10) | 4.7 (5) | 85 (1) | 18 (7) | 36 (1) |
| CH202 | SPQ | 8620 (7) | 15.6 (8) | 4.3 (10) | 86 (2) | 38 (11) | 38 (3) |
| 08Y3269 | M | 8610 (8) | 16.7 (6) | 4.5 (9) | 91 (8) | 1 (1) | 43 (9) |
| M202 | M | 8510 (9) | 17.4 (3) | 5.0 (1) | 89 (5) | 21 (8) | 43 (6) |
| CH201 | SPQ | 8460 (10) | 15.7 (7) | 5.0 (1) | 89 (7) | 28 (9) | 38 (2) |
| M206 | M | 8270 (11) | 15.3 (9) | 4.7 (7) | 87 (3) | 1 (1) | 40 (4) |
| MEAN | | 8820 | 16.4 | 4.7 | 90 | 13 | 41 |
| CV | | 5.0 | 4.1 | 5.6 | 1 | 157.9 | 4.7 |
| LSD (.05) | | 630 | 1 | 0.4 | 1 | | 3 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|----------|----------|---------|---------|
| M401 | MPQ | 9900 (1) | 23.1 (1) | 4.9 (6) | 110 (25) | 40 (18) | 46 (21) |
| 13P266 | LJ | 9890 (2) | 13.4 (22) | 4.1 (21) | 91 (17) | 33 (17) | 39 (4) |
| 12Y135 | LJ | 9740 (3) | 15.7 (9) | 5.0 (1) | 94 (21) | 8 (11) | 39 (4) |
| 13P277 | LJ | 9590 (4) | 12.3 (25) | 5.0 (1) | 90 (13) | 1 (1) | 39 (3) |
| 12Y1022 | LA | 9460 (5) | 14.7 (18) | 4.8 (8) | 90 (14) | 1 (1) | 42 (12) |
| 13Y1178 | LJ | 9330 (6) | 12.8 (24) | 4.4 (15) | 91 (15) | 6 (7) | 42 (11) |
| 12Y1176 | L | 9120 (7) | 14.8 (16) | 4.7 (10) | 89 (10) | 20 (15) | 44 (19) |
| M208 | MB | 9100 (8) | 14.9 (15) | 4.5 (12) | 89 (10) | 6 (7) | 43 (14) |
| 13Y3224 | MPQ | 9030 (9) | 15.6 (11) | 2.8 (24) | 89 (9) | 70 (20) | 43 (16) |
| 09Y2141 | SWX | 8810 (10) | 17.1 (4) | 4.3 (18) | 86 (2) | 11 (13) | 42 (10) |
| A202 | LA | 8760 (11) | 14.8 (17) | 5.0 (1) | 88 (6) | 15 (14) | 41 (8) |
| 11Y2182 | MPQ | 8650 (12) | 18.1 (3) | 3.7 (23) | 96 (23) | 10 (12) | 43 (14) |
| 12Y2178 | SPQ | 8570 (13) | 15.1 (13) | 4.5 (12) | 95 (22) | 1 (1) | 40 (6) |
| 11Y106 | LJ | 8420 (14) | 14.3 (20) | 4.6 (11) | 91 (17) | 85 (22) | 46 (22) |
| 13Y3223 | MPQ | 8120 (15) | 15.7 (10) | 3.8 (22) | 89 (10) | 90 (23) | 43 (16) |
| 13Y3219 | MB | 8070 (16) | 16.1 (8) | 4.2 (19) | 87 (3) | 1 (1) | 44 (18) |
| 13Y3220 | MPQ | 7980 (17) | 15.0 (14) | 4.7 (9) | 88 (6) | 75 (21) | 42 (12) |
| M203 | MPQ | 7810 (18) | 16.3 (7) | 5.0 (1) | 88 (6) | 95 (24) | 47 (25) |
| M105 | M | 7370 (19) | 16.6 (6) | 2.5 (25) | 87 (3) | 30 (16) | 42 (9) |
| CM101 | SWX | 6570 (20) | 15.1 (12) | 4.5 (12) | 83 (1) | 6 (7) | 41 (7) |
| 13Y135 | LB | 6490 (21) | 13.2 (23) | 4.4 (17) | 93 (19) | 1 (1) | 38 (1) |
| 13P477 | LB | 5810 (22) | 14.5 (19) | 4.9 (7) | 91 (15) | 65 (19) | 47 (23) |
| 13Y1055 | LB | 5760 (23) | 13.9 (21) | 4.2 (20) | 87 (3) | 1 (1) | 38 (1) |
| KOSH | SPQ | 5660 (24) | 16.8 (5) | 4.4 (15) | 101 (24) | 99 (25) | 45 (20) |
| 13P454 | LB | 5160 (25) | 18.2 (2) | 5.0 (1) | 93 (19) | 6 (7) | 47 (24) |
| MEAN | | 8130 | 15.5 | 4.4 | 91 | 31 | 43 |
| CV | | 5.5 | 6.3 | 11.7 | 1.1 | 54.6 | 3.7 |
| LSD (.05) | | 930 | 2 | 1.1 | 2 | 35 | 3 |

S=short; M=medium; L=long; PQ=premium quality; WX=waxy; A=aromatic; LB=long Basmati;

J=Jasmine; MB=medium blast 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. 2014 Sutter Intermediate-Late Rice Variety Trials

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) |
|-----------|------------|--------------------------------------|-------------------------------|----------------------|---------------------|----------------|-------------------|
| 08Y3269 | M | 10010 (1) | 17.5 (4) | 5.0 (1) | 89 (8) | 99 (1) | 44 (7) |
| L206 | L | 9660 (2) | 12.3 (10) | 5.0 (1) | 82 (2) | 99 (1) | 42 (3) |
| M206 | M | 9270 (3) | 21.6 (1) | 5.0 (1) | 82 (2) | 99 (1) | 43 (4) |
| M202 | M | 9030 (4) | 17.8 (3) | 5.0 (1) | 88 (7) | 99 (1) | 45 (11) |
| 11Y2183 | MPQ | 9010 (5) | 16.4 (8) | 5.0 (1) | 95 (10) | 99 (1) | 43 (5) |
| 11Y1005 | L | 8830 (6) | 16.4 (7) | 5.0 (1) | 82 (4) | 99 (1) | 45 (10) |
| M205 | M | 8680 (7) | 18.3 (2) | 5.0 (1) | 91 (9) | 99 (1) | 43 (6) |
| 13Y3212 | MB | 8310 (8) | 17.0 (5) | 5.0 (1) | 83 (5) | 99 (1) | 44 (7) |
| CH201 | SPQ | 7520 (9) | 15.1 (9) | 5.0 (1) | 85 (6) | 99 (1) | 41 (2) |
| CH202 | SPQ | 7140 (10) | 16.5 (6) | 5.0 (1) | 79 (1) | 99 (1) | 39 (1) |
| M402 | MPQ | 7020 (11) | 9.7 (11) | 5.0 (1) | 101 (11) | 99 (1) | 45 (9) |
| MEAN | | 8590 | 16.2 | 5.0 | 87 | 99 | 43 |
| CV | | 10.9 | 8 | | 0.8 | | 3.7 |
| LSD (.05) | | 1350 | 1.9 | | 1 | | 2 |

Preliminary Lines and Varieties

| | | | | | | | |
|-----------|-----|-----------|-----------|----------|----------|---------|---------|
| 11Y2182 | MPQ | 9800 (1) | 20.3 (8) | 5.0 (1) | 95 (21) | 99 (10) | 44 (6) |
| 13P266 | LJ | 9670 (2) | 13.4 (23) | 3.8 (25) | 90 (19) | 85 (4) | 43 (4) |
| 09Y2141 | SWX | 9650 (3) | 21.2 (5) | 5.0 (1) | 78 (2) | 99 (10) | 44 (7) |
| A202 | LA | 9550 (4) | 19.5 (11) | 5.0 (1) | 87 (12) | 99 (10) | 44 (7) |
| 13P277 | LJ | 9500 (5) | 12.5 (24) | 5.0 (1) | 89 (18) | 99 (10) | 45 (13) |
| 12Y1176 | L | 9480 (6) | 20.6 (6) | 5.0 (1) | 87 (13) | 90 (5) | 46 (16) |
| 12Y1022 | LA | 8710 (7) | 19.0 (13) | 5.0 (1) | 88 (15) | 99 (10) | 46 (19) |
| 13Y1178 | LJ | 8380 (8) | 14.2 (22) | 5.0 (1) | 88 (16) | 90 (6) | 45 (10) |
| M208 | MB | 7890 (9) | 19.3 (12) | 5.0 (1) | 85 (10) | 99 (10) | 46 (16) |
| M105 | M | 7890 (10) | 25.7 (2) | 5.0 (1) | 79 (3) | 99 (10) | 42 (3) |
| 13Y3219 | MB | 7850 (11) | 21.6 (4) | 5.0 (1) | 83 (5) | 99 (10) | 45 (14) |
| 12Y2178 | SPQ | 7830 (12) | 14.6 (21) | 4.4 (24) | 87 (13) | 99 (10) | 41 (1) |
| 12Y135 | LJ | 7770 (13) | 22.5 (3) | 5.0 (1) | 96 (23) | 99 (10) | 45 (10) |
| 13Y135 | LB | 7750 (14) | 18.5 (14) | 5.0 (1) | 92 (20) | 65 (3) | 43 (5) |
| 13Y1055 | LB | 7720 (15) | 16.8 (17) | 4.9 (23) | 81 (4) | 60 (2) | 45 (12) |
| 13Y3220 | MPQ | 6660 (16) | 17.2 (16) | 5.0 (1) | 84 (8) | 99 (10) | 46 (18) |
| 13Y3224 | MPQ | 6440 (17) | 20.0 (9) | 5.0 (1) | 83 (5) | 99 (10) | 44 (7) |
| CM101 | SWX | 6180 (18) | 16.4 (18) | 5.0 (1) | 77 (1) | 99 (10) | 41 (2) |
| M203 | MPQ | 5990 (19) | 20.3 (7) | 5.0 (1) | 86 (11) | 97 (9) | 47 (21) |
| 13Y3223 | MPQ | 5910 (20) | 17.6 (15) | 5.0 (1) | 83 (5) | 99 (10) | 47 (20) |
| M401 | MPQ | 5530 (21) | 11.6 (25) | 5.0 (1) | 106 (25) | 99 (10) | 49 (23) |
| 11Y106 | LJ | 5360 (22) | 15.9 (20) | 5.0 (1) | 84 (8) | 95 (8) | 46 (15) |
| 13P477 | LB | 3950 (23) | 19.6 (10) | 5.0 (1) | 88 (16) | 90 (6) | 51 (24) |
| KOSH | SPQ | 3690 (24) | 16.4 (19) | 5.0 (1) | 95 (21) | 99 (10) | 47 (21) |
| 13P454 | LB | 2750 (25) | 29.3 (1) | 5.0 (1) | 103 (24) | 25 (1) | 52 (25) |
| MEAN | | 7280 | 18.6 | 4.9 | 88 | 91 | 45 |
| CV | | 11.4 | 7.6 | 3.5 | 0.9 | 9.4 | 5 |
| LSD (.05) | | 1720 | 2.9 | 0.4 | 2 | 18 | 5 |

S=short; M=medium; L=long; PQ=premium quality; WX=waxy; A=aromatic; LB=long Basmati; J=Jasmine; MB=medium blast 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 (2010-2014)

| Location | Year | M-205 | M-402 | M-202 | L-206 |
|----------------------|------|--------------|-------------|--------------|--------------|
| Biggs (RES) | 2010 | 11030 | 8240 | 10430 | 11610 |
| | 2011 | 10270 | 9200 | 9160 | 9990 |
| | 2012 | 11210 | 10260 | 11090 | 11180 |
| | 2013 | 9730 | 9830 | 8700 | 9460 |
| | 2014 | 10550 | 10040 | 8870 | 10340 |
| Location Mean | | 10558 | 9514 | 9650 | 10516 |
| Glenn | 2010 | 9210 | 9360 | 7970 | 8340 |
| | 2011 | 9550 | 9820 | 9030 | 8900 |
| | 2012 | 8220 | 8260 | 7660 | 7680 |
| | 2013 | 8400 | 8970 | 8270 | 8870 |
| | 2014 | 8910 | 8910 | 8510 | 8870 |
| Location Mean | | 8858 | 9064 | 8288 | 8532 |
| Sutter | 2010 | 9190 | 9300 | 10500 | 9390 |
| | 2011 | 9310 | 8000 | 9010 | 9780 |
| | 2012 | 9630 | 9040 | 9690 | 9890 |
| | 2013 | 8540 | 6900 | 7890 | 8720 |
| | 2014 | 8680 | 7020 | 9030 | 9660 |
| Location Mean | | 9070 | 8052 | 9224 | 9488 |
| Loc/Years Mean | | 9495 | 8877 | 9054 | 9512 |
| Yield % M-202 | | 104.9 | 98.0 | 100 | 107.2 |
| Number of Tests | | 15 | 15 | 15 | 15 |