

ANNUAL REPORT
COMPREHENSIVE RESEARCH ON RICE
January 1, 2018 – March 31, 2019

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

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LEVEL OF 2018 FUNDING: \$166,929

OBJECTIVES AND EXPERIMENTS CONDUCTED BY LOCATION TO ACCOMPLISH OBJECTIVES:

Objective I

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

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 Rehman Ranch (south Yolo 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 12 entries (8 commercial varieties and four advanced breeding lines) in four replications. The Preliminary tests included 44 entries (eight commercial varieties as checks and 36 preliminary breeding lines) 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 Bosworth Ranch (District 10, Yuba County). Two additional trials, Advanced and Preliminary, were conducted at the RES. The Advanced test at each site included 12 entries (eight commercial varieties and 4 advanced breeding lines) in four replications. The Preliminary tests included 48 entries (eight commercial varieties and 40 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 Schohr Ranch (Butte County). Two additional tests were conducted at the RES. The Advanced test at each site included 12 entries (eight commercial varieties and four advanced breeding lines) in four replications. The Preliminary tests included 24 entries (six 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 30 trials including the 16 variety tests. Equipment from the UCCE-based pool for planting and harvesting field experiments was used at 12 sites at different times during the season. The most heavily used equipment was the ALMACO combine. Both of the rice combines were maintained according to the established maintenance schedules.

The ALMACO rice combine was used to harvest all 16 statewide trials, and RES trials were harvested with their ALMACO combine. The SWECO harvester was used to harvest a small trial of test plots at the RES.

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 Breeder's Field Tour. The UCCE rice website is online and new materials are being added as they become available.

SUMMARY OF 2018 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 early next year, will provide agronomic performance results for all entries in each experiment.

Very Early Maturity Tests (< 90 days to 50% heading at Biggs): Eight commercial varieties and four advanced breeding lines were compared in four very early advanced tests. The preliminary tests evaluated eight commercial varieties and 36 preliminary lines in separate tests at each location. Commercial varieties at each location included S102, CA201, CH201, CH202, CM101, CM203, M104, M105, M205, M206, M209, M210, A202, CJ201, L206, and L207.

Grain yields in the advanced tests averaged 9,390 overall, 9,530 lbs/ac at Biggs-RES, 9,810 lbs/ac at Sutter, 10,450 lbs/ac at Yolo and 7,810 lbs/ac at South Yolo (Tables 1-5). The three highest yielding entries, on average, were short grain line 10Y2043, long grain line 14Y1006, and long grain L207 (10,260, 10,260, and 9,940 lbs/ac respectively). The top yielding commercial varieties L207, CJ201, M201 and M105 ranked third, fifth, sixth, and seventh respectively. Averaged across four locations, cultivar yields in the preliminary tests ranged from 9,700 to 5,780 lbs/ac (Table 1). The average grain

moisture at harvest was 18.2%, average lodging 8%, average days to 50% heading 84, average seedling vigor 4.7, and average plant height 94 cm. Field preparation and planting were average with all trials completed in late May. Harvest was completed within the normal time frame. Yields were up 4.6% from 2017.

Comparing the commercial standard entries over a 5-year period and across locations, M104, M105, and S102 were the three highest yielding varieties (Table 6).

Early Maturity Tests (90-97 days to 50% heading at Biggs): Eight commercial varieties and 4 advanced lines were compared in four early advanced tests. The preliminary tests included eight commercial varieties and 40 preliminary lines evaluated in separate tests at each location. Commercial varieties at each location were S102, CA201, CH201, CH202, CM101, CM203, M104, M105, M205, M206, M209, M210, A202, CJ201, L206, and L207.

Yields in the advanced line tests averaged 9,180 lbs/ac overall, 9,850 lbs/ac at the RES, 8,630 lbs/ac at Butte, 9,040 lbs/ac at Colusa, and 9,190 lbs/ac at Yuba (Tables 7-11). Advanced long grain 14Y1006 was the highest yielding entry (9,930 lbs/ac) when averaged over four locations in 2018 (Table 7). Advanced short grain line 10Y2043, long grain L207, and medium grain premium quality 12Y2175 yielded second, third, and fourth respectively. The yield of commercial varieties CJ201, M209, M206, M210, and M105 ranked fifth, sixth, seventh, eighth, and ninth over all of the locations (Table 7). Average days to 50% heading was 82. The commercial standard M206 averaged 81 days over four locations. In the preliminary tests CM203 was the highest yielding commercial variety with twelve experimental lines yielding higher.

L207 was the highest yielding commercial variety (10,080 lbs/ac) followed by M209 (9,422 lbs/ac) and M206 (9,356 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) - Eight commercial varieties and four advanced lines were compared in three intermediate-late tests. The preliminary tests included six commercial varieties and 18 preliminary lines that were evaluated in separate tests at each location. Commercial varieties at each location included S102, CA201, CH201, CH202, CM203, M105, M205, M206, M209, M210, A202, CJ201, L206, and L207.

Yields in the advanced line tests averaged 9,900 lbs/ac overall, 9,970 lbs/ac at the RES, 10,030 lbs/ac at Butte, and 9,740 lbs/ac at Glenn (Tables 13-15). The 2018 advanced over location average yield increased 920 lbs/ac (9.3%) compared to the 2017 average. In the advanced tests, L207 was the highest yielding commercial variety (10,440 lbs/ac), ranking second overall. CJ201 and M209 were the next highest yielding commercial varieties across locations, ranking fifth and sixth respectively (Table 13). The medium grain entry 12Y2175 was the highest yielding advanced entry across all locations at 10,960 lbs/ac. Average days to 50% heading was 82. Advance line 12Y2175 was the latest variety at 86 days to reach 50% heading at all locations.

Averaged over the last 5 years and across locations, L206 is the highest yielding (9,469 lbs/ac) commercial variety closely followed by M209 at 9,420 lbs/ac (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 rice trials, with the SWECO being used to harvest a small trial of test plots.

The rice equipment pool including a precision Clampco fertilizer applicator, SWECO 324 plot combine, ALMACO SP40 plot combine, moisture meters, remote temperature stations, and other equipment were available for use along with personnel to provided technical assistance for numerous field experiments in

2018. Equipment from the UCCE-based pool for planting and harvesting field experiments was used at 12 sites at different times during the season. The ALMACO was used to harvest 16 variety tests, five kernel smut, and 12 various trials at the RES. Over 1,700 experimental plots were harvested in 2018. 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 Breeder's 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. 325 "California Rice Varieties: Description and Performance Summary of the 2017 Multiyear Statewide Rice Variety Tests in California".
2. The UCCE website is online and is continually being updated.

Recent relevant Publications and Reports:

1. Espe, M. H. Yang, K.G. Cassman, N. Guilpart, H. Sharifi, and B.A. Linquist (2016) Estimating yield potential in temperate high-yielding, direct-seeded rice US rice production systems. *Field Crops Research* 193:123-132.
2. Espe, M, K.G. Cassman, H. Yang, N. Guilpart, P. Grassini, J. Van Wart, M. Anders, D. Beighley, D. Harrell; S. Linscombe, K. McKenzie, R. Mutters, L.T. Wilson, B.A. Linquist. (2016) Yield gap analysis of US rice production systems shows opportunities for improvement. *Field Crops Research* 196:276-283.
3. Sharifi, H., R.J. Hijmans, J.E. Hill, B. Linquist. (2017) Using stage-dependent temperature parameters to improve phenological model prediction accuracy in rice (*Oryza sativa*) models. *Crop Science* 57:444-453.
4. Espe, M.B., J.E. Hill, K. McKenzie, R.J. Hijmans, L.A. Espino, R. Mutters, M. Lienfelder-Miles; C. van Kessel, B.A. Linquist. (2017) Point stresses during reproductive stage rather than warming seasonal temperature determines yield in temperate rice. *Global Change Biology* 23:4386-4395 DOI: 10.1111/gcb.13719.

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 9,390 lbs/acre in the very early tests to 9,180 lbs/acre in the early tests. In the intermediate/late tests the advanced lines average yield was 9,900 lbs/acre. Field preparation and planting were completed in late May. Several advanced lines in 2018 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 12 trial sites throughout the rice growing areas. This project was also involved in several educational activities including the winter rice grower meetings, the RES rice field day, promoting work through fact sheets and publications, and updating of the UCCE rice website.

Table 1. 2018 Four Location Very Early Rice Variety Trials

Advanced Lines and Varieties

| | | Single Location Yields | | | | | | | | | | | | | | | |
|-----------|---------------|--|------|-------|------|--------|------|-------|------|------------|------|---------------------------------|-------|-------------------|---------------------------|--------------------|-------------------------|
| | | Over All Ave Grain Yield at 14% Moisture lbs/ac | | Biggs | | Sutter | | Yolo | | South Yolo | | Grain Moisture at Harvest | | Seedling Vigor | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| Variety | Grain Type | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | (%) | (1-5) | | | | |
| 10Y2043 | S | 10260 | 1 | 10190 | 3 | 10660 | 1 | 11520 | 2 | 8680 | 1 | 17.8 | 4.8 | 81 | 33 | 92 | |
| 14Y1006 | L | 10260 | 2 | 10620 | 2 | 10500 | 2 | 11500 | 3 | 8430 | 2 | 17.1 | 4.8 | 81 | 2 | 92 | |
| L-207 | L | 9940 | 3 | 9900 | 5 | 10240 | 4 | 11600 | 1 | 8010 | 5 | 18.0 | 4.8 | 85 | 3 | 101 | |
| 12Y2175 | M | 9680 | 4 | 10930 | 1 | 9920 | 6 | 10710 | 5 | 7170 | 11 | 19.2 | 4.8 | 89 | 4 | 96 | |
| CJ-201 | L | 9630 | 5 | 10080 | 4 | 10400 | 3 | 11070 | 4 | 6970 | 12 | 16.3 | 4.8 | 89 | 21 | 89 | |
| M-210 | M | 9130 | 6 | 8570 | 11 | 10110 | 5 | 10020 | 7 | 7830 | 6 | 19.7 | 4.7 | 83 | 6 | 95 | |
| M-105 | M | 9090 | 7 | 8600 | 10 | 9540 | 7 | 10010 | 8 | 8210 | 4 | 19.6 | 4.6 | 80 | 4 | 96 | |
| L-206 | L | 9060 | 8 | 9770 | 6 | 9330 | 9 | 9890 | 9 | 7260 | 10 | 16.6 | 4.6 | 84 | 6 | 87 | |
| M-209 | M | 9040 | 9 | 9710 | 7 | 9090 | 12 | 9790 | 10 | 7580 | 9 | 19.4 | 4.6 | 89 | 1 | 92 | |
| M-206 | M | 9020 | 10 | 9090 | 8 | 9250 | 11 | 10090 | 6 | 7640 | 8 | 19.6 | 4.7 | 85 | 8 | 95 | |
| 17Y3000 | M | 8930 | 11 | 9040 | 9 | 9380 | 8 | 9650 | 11 | 7650 | 7 | 19.6 | 4.6 | 84 | 6 | 94 | |
| S-102 | S | 8740 | 12 | 7890 | 12 | 9260 | 10 | 9490 | 12 | 8320 | 3 | 15.3 | 4.8 | 79 | 8 | 95 | |
| MEAN | | 9390 | | 9530 | | 9810 | | 10450 | | 7810 | | 18.2 | 4.7 | 84 | 8 | 94 | |
| CV | | 4.9 | | 6.7 | | 3.4 | | 4.0 | | 5.0 | | 6.0 | 9.3 | 1.8 | 84.8 | 8.6 | |
| LSD (.05) | | 794 | | 923 | | 484 | | 607 | | 562 | | 2.5 | 0.3 | 1.8 | 21.3 | 4.2 | |

Preliminary Lines and Varieties

| | | | | | | | | | | | | | | | | |
|-----------|---|------|----|-------|----|-------|----|-------|----|------|----|------|-----|-----|------|-----|
| 15Y2100 | S | 9700 | 1 | 9050 | 20 | 10240 | 3 | 10970 | 2 | 8530 | 8 | 15.3 | 4.8 | 87 | 29 | 96 |
| 17Y3014 | M | 9650 | 2 | 9260 | 15 | 10560 | 2 | 10140 | 18 | 8630 | 6 | 17.3 | 4.8 | 85 | 39 | 99 |
| 17Y1007 | L | 9640 | 3 | 10190 | 5 | 10160 | 4 | 10700 | 6 | 7520 | 34 | 15.9 | 4.8 | 82 | 1 | 98 |
| 16Y127 | L | 9610 | 4 | 10010 | 6 | 9760 | 11 | 10490 | 10 | 8180 | 19 | 15.7 | 4.9 | 87 | 3 | 97 |
| 17Y1087 | L | 9590 | 5 | 10390 | 3 | 11020 | 1 | 10170 | 16 | 6800 | 42 | 15.7 | 4.9 | 83 | 2 | 96 |
| 17Y1002 | L | 9590 | 6 | 9330 | 14 | 10070 | 6 | 10830 | 3 | 8110 | 22 | 16.4 | 4.9 | 82 | 2 | 106 |
| 16Y2028 | S | 9550 | 7 | 8450 | 32 | 10110 | 5 | 10780 | 4 | 8870 | 3 | 16.7 | 4.8 | 86 | 64 | 97 |
| 17Y1100 | L | 9520 | 8 | 10880 | 1 | 9640 | 14 | 10520 | 9 | 7050 | 39 | 17.2 | 4.9 | 89 | 15 | 97 |
| 15Y2112 | S | 9450 | 9 | 9340 | 13 | 9370 | 28 | 10710 | 5 | 8360 | 16 | 20.8 | 4.8 | 89 | 62 | 94 |
| 17Y3082 | M | 9390 | 10 | 9650 | 9 | 9910 | 9 | 9850 | 28 | 8170 | 21 | 18.1 | 4.8 | 86 | 18 | 94 |
| 17P2216 | S | 9390 | 11 | 8700 | 27 | 9770 | 10 | 10360 | 12 | 8730 | 5 | 17.4 | 4.8 | 84 | 16 | 94 |
| 14Y3143 | M | 9370 | 12 | 8630 | 29 | 9580 | 20 | 10040 | 23 | 9230 | 1 | 17.7 | 4.8 | 86 | 5 | 97 |
| 16Y2127 | S | 9370 | 13 | 8580 | 31 | 9360 | 29 | 10660 | 7 | 8870 | 2 | 17.0 | 4.8 | 84 | 3 | 92 |
| 17Y2087 | S | 9370 | 14 | 8790 | 26 | 9150 | 34 | 11040 | 1 | 8490 | 10 | 18.0 | 4.9 | 86 | 9 | 91 |
| 16Y3019 | M | 9320 | 15 | 9190 | 17 | 10020 | 7 | 9910 | 26 | 8180 | 20 | 18.8 | 4.8 | 85 | 7 | 98 |
| 17Y3023 | M | 9300 | 16 | 8350 | 33 | 9960 | 8 | 10410 | 11 | 8490 | 11 | 16.6 | 4.8 | 86 | 16 | 97 |
| CM-203 | S | 9230 | 17 | 8980 | 21 | 9630 | 15 | 9860 | 27 | 8420 | 13 | 17.5 | 4.8 | 84 | 23 | 98 |
| 17Y3042 | M | 9220 | 18 | 8810 | 24 | 9660 | 13 | 10000 | 24 | 8400 | 14 | 16.9 | 4.8 | 85 | 6 | 97 |
| 17Y3047 | M | 9200 | 19 | 9540 | 11 | 9220 | 33 | 10250 | 13 | 7790 | 31 | 17.0 | 4.8 | 86 | 5 | 91 |
| 17P3035 | M | 9190 | 20 | 8650 | 28 | 9610 | 18 | 10090 | 21 | 8400 | 15 | 16.4 | 4.9 | 83 | 78 | 99 |
| 17Y3114 | M | 9170 | 21 | 8970 | 22 | 9490 | 23 | 10180 | 15 | 8020 | 26 | 18.3 | 4.8 | 87 | 16 | 99 |
| 17Y3119 | M | 9100 | 22 | 9260 | 16 | 9410 | 25 | 10050 | 22 | 7670 | 32 | 17.5 | 4.9 | 85 | 14 | 92 |
| 17Y3043 | M | 9100 | 23 | 9540 | 10 | 9710 | 12 | 9190 | 36 | 7940 | 28 | 17.8 | 4.9 | 87 | 5 | 91 |
| 15Y2024 | S | 9070 | 24 | 8280 | 35 | 9440 | 24 | 10640 | 8 | 7930 | 29 | 16.8 | 4.7 | 89 | 34 | 94 |
| 13Y3152 | M | 9030 | 25 | 9160 | 19 | 9620 | 16 | 9060 | 37 | 8280 | 17 | 17.0 | 4.8 | 88 | 6 | 96 |
| 17Y2140 | S | 9020 | 26 | 8180 | 36 | 9520 | 21 | 10130 | 19 | 8260 | 18 | 17.5 | 4.8 | 87 | 44 | 95 |
| 17Y3131 | M | 9010 | 27 | 9170 | 18 | 9400 | 26 | 9670 | 32 | 7810 | 30 | 17.6 | 4.8 | 86 | 7 | 95 |
| 15Y3036 | M | 9010 | 28 | 8800 | 25 | 9500 | 22 | 9730 | 31 | 8010 | 27 | 17.0 | 4.9 | 83 | 3 | 93 |
| A-202 | L | 8990 | 29 | 9540 | 12 | 9590 | 19 | 9610 | 33 | 7210 | 37 | 15.8 | 4.9 | 86 | 1 | 96 |
| 17P3450 | M | 8960 | 30 | 8610 | 30 | 9620 | 17 | 10240 | 14 | 7360 | 35 | 16.5 | 4.8 | 84 | 17 | 93 |
| M-104 | M | 8920 | 31 | 7670 | 38 | 9390 | 27 | 9780 | 29 | 8830 | 4 | 15.1 | 4.8 | 78 | 15 | 90 |
| CH-202 | S | 8920 | 32 | 8340 | 34 | 8810 | 37 | 9930 | 25 | 8590 | 7 | 16.2 | 4.8 | 86 | 63 | 87 |
| 17Y3150 | M | 8830 | 33 | 10380 | 4 | 9110 | 35 | 9050 | 38 | 6810 | 41 | 18.0 | 4.8 | 89 | 0 | 97 |
| CH-201 | S | 8830 | 34 | 7880 | 37 | 9300 | 30 | 10100 | 20 | 8040 | 23 | 15.5 | 4.8 | 88 | 56 | 90 |
| 15Y3171 | M | 8810 | 35 | 10500 | 2 | 9260 | 32 | 9250 | 35 | 6240 | 43 | 17.0 | 4.8 | 91 | 19 | 88 |
| 16Y2058 | S | 8750 | 36 | 7600 | 39 | 8730 | 38 | 10160 | 17 | 8500 | 9 | 16.4 | 4.8 | 85 | 27 | 98 |
| 15Y2153 | M | 8750 | 37 | 9920 | 8 | 8930 | 36 | 9010 | 39 | 7120 | 38 | 18.9 | 4.8 | 91 | 5 | 94 |
| M-205 | M | 8720 | 38 | 8910 | 23 | 9270 | 31 | 9760 | 30 | 6940 | 40 | 18.2 | 4.8 | 92 | 1 | 90 |
| 89Y235 | S | 8320 | 39 | 7240 | 40 | 8290 | 39 | 9330 | 34 | 8440 | 12 | 15.8 | 4.8 | 82 | 72 | 96 |
| 17Y1063 | L | 8230 | 40 | 9940 | 7 | 8140 | 40 | 8770 | 40 | 6070 | 44 | 18.4 | 4.8 | 84 | 26 | 103 |
| CM-101 | S | 7510 | 41 | 6390 | 41 | 7110 | 42 | 8500 | 41 | 8020 | 25 | 14.1 | 4.8 | 80 | 11 | 92 |
| CA-201 | S | 7350 | 42 | 6190 | 42 | 7920 | 41 | 7970 | 42 | 7310 | 36 | 16.5 | 4.8 | 86 | 49 | 93 |
| 17Y2096 | S | 6170 | 43 | 4700 | 44 | 4960 | 44 | 6990 | 43 | 8030 | 24 | 16.4 | 4.8 | 85 | 76 | 101 |
| 17Y2098 | S | 5780 | 44 | 4960 | 43 | 5360 | 43 | 5250 | 44 | 7530 | 33 | 16.7 | 4.8 | 84 | 66 | 105 |
| MEAN | | 8930 | | 8750 | | 9240 | | 9780 | | 7960 | | 17.0 | 4.8 | 86 | 23 | 95 |
| CV | | 5.4 | | 6.7 | | 3.5 | | 5.0 | | 6.0 | | 8.1 | 1.3 | 2.8 | 63.0 | 9.7 |
| LSD (.05) | | 1120 | | 1186 | | 659 | | 986 | | 961 | | 2.4 | 0.1 | 3.1 | 27.7 | 2.4 |

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

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

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

Table 2. 2018 Biggs Very Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 12Y2175 | M | 10930 | 1 | 18.5 | 4.9 | 80 | 5 | 102 |
| 14Y1006 | L | 10620 | 2 | 14.8 | 4.9 | 73 | 3 | 97 |
| 10Y2043 | S | 10190 | 3 | 14.4 | 4.9 | 72 | 49 | 95 |
| CJ-201 | L | 10080 | 4 | 14.0 | 4.9 | 79 | 0 | 90 |
| L-207 | L | 9900 | 5 | 14.1 | 4.9 | 75 | 0 | 111 |
| L-206 | L | 9770 | 6 | 14.5 | 5.0 | 75 | 1 | 94 |
| M-209 | M | 9710 | 7 | 18.8 | 4.9 | 79 | 0 | 103 |
| M-206 | M | 9090 | 8 | 18.4 | 4.9 | 75 | 24 | 104 |
| 17Y3000 | M | 9040 | 9 | 18.0 | 4.9 | 75 | 15 | 103 |
| M-105 | M | 8600 | 10 | 17.7 | 4.9 | 73 | 11 | 99 |
| M-210 | M | 8570 | 11 | 18.6 | 4.9 | 75 | 14 | 99 |
| S-102 | S | 7890 | 12 | 10.7 | 4.9 | 71 | 18 | 98 |
| MEAN | | 9530 | | 16.0 | 4.9 | 75 | 12 | 99 |
| CV | | 6.7 | | 6.2 | 1.0 | 1.2 | 88.5 | 3.8 |
| LSD (.05) | | 923 | | 1.4 | 0.1 | 1.3 | 14.7 | 5.4 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|-----|
| 17Y1100 | L | 10880 | 1 | 15.5 | 4.9 | 78 | 50 | 104 |
| 15Y3171 | M | 10500 | 2 | 19.0 | 4.9 | 82 | 0 | 96 |
| 17Y1087 | L | 10390 | 3 | 14.4 | 5.0 | 76 | 0 | 102 |
| 17Y3150 | M | 10380 | 4 | 19.4 | 4.9 | 77 | 0 | 100 |
| 17Y1007 | L | 10190 | 5 | 14.3 | 5.0 | 74 | 0 | 100 |
| 16Y127 | L | 10010 | 6 | 15.2 | 5.0 | 77 | 0 | 107 |
| 17Y1063 | L | 9940 | 7 | 18.9 | 5.0 | 78 | 8 | 106 |
| 15Y2153 | M | 9920 | 8 | 20.7 | 4.9 | 85 | 0 | 100 |
| 17Y3082 | M | 9650 | 9 | 18.9 | 4.9 | 75 | 25 | 103 |
| 17Y3043 | M | 9540 | 10 | 18.9 | 4.9 | 76 | 0 | 99 |
| 17Y3047 | M | 9540 | 11 | 16.5 | 4.9 | 77 | 0 | 94 |
| A-202 | L | 9540 | 12 | 15.4 | 5.0 | 77 | 0 | 103 |
| 15Y2112 | S | 9340 | 13 | 19.8 | 5.0 | 79 | 13 | 99 |
| 17Y1002 | L | 9330 | 14 | 15.7 | 5.0 | 74 | 3 | 110 |
| 17Y3014 | M | 9260 | 15 | 18.0 | 4.9 | 75 | 35 | 108 |
| 17Y3119 | M | 9260 | 16 | 17.7 | 4.9 | 75 | 5 | 95 |
| 16Y3019 | M | 9190 | 17 | 18.7 | 4.9 | 76 | 5 | 102 |
| 17Y3131 | M | 9170 | 18 | 18.3 | 4.9 | 78 | 0 | 102 |
| 13Y3152 | M | 9160 | 19 | 17.6 | 5.0 | 76 | 0 | 102 |
| 15Y2100 | S | 9050 | 20 | 13.7 | 4.9 | 79 | 0 | 102 |
| CM-203 | S | 8980 | 21 | 15.2 | 5.0 | 75 | 40 | 101 |
| 17Y3114 | M | 8970 | 22 | 18.2 | 4.9 | 76 | 40 | 108 |
| M-205 | M | 8910 | 23 | 18.1 | 4.9 | 81 | 0 | 94 |
| 17Y3042 | M | 8810 | 24 | 17.0 | 4.9 | 75 | 3 | 107 |
| 15Y3036 | M | 8800 | 25 | 16.5 | 5.0 | 75 | 3 | 99 |
| 17Y2087 | S | 8790 | 26 | 16.5 | 4.9 | 77 | 0 | 92 |
| 17P2216 | S | 8700 | 27 | 16.2 | 4.9 | 75 | 5 | 97 |
| 17P3035 | M | 8650 | 28 | 16.5 | 5.0 | 74 | 85 | 103 |
| 14Y3143 | M | 8630 | 29 | 17.5 | 5.0 | 76 | 15 | 101 |
| 17P3450 | M | 8610 | 30 | 16.8 | 4.9 | 75 | 5 | 94 |
| 16Y2127 | S | 8580 | 31 | 15.5 | 5.0 | 77 | 0 | 95 |
| 16Y2028 | S | 8450 | 32 | 13.8 | 5.0 | 76 | 60 | 95 |
| 17Y3023 | M | 8350 | 33 | 17.5 | 4.9 | 75 | 10 | 105 |
| CH-202 | S | 8340 | 34 | 12.8 | 4.9 | 75 | 25 | 90 |
| 15Y2024 | S | 8280 | 35 | 13.5 | 4.9 | 78 | 0 | 94 |
| 17Y2140 | S | 8180 | 36 | 15.6 | 4.9 | 77 | 0 | 100 |
| CH-201 | S | 7880 | 37 | 11.9 | 4.9 | 78 | 40 | 94 |
| M-104 | M | 7670 | 38 | 15.6 | 4.9 | 71 | 15 | 93 |
| 16Y2058 | S | 7600 | 39 | 15.2 | 5.0 | 77 | 20 | 104 |
| 89Y235 | S | 7240 | 40 | 14.8 | 4.9 | 75 | 85 | 104 |
| CM-101 | S | 6390 | 41 | 10.7 | 5.0 | 72 | 20 | 91 |
| CA-201 | S | 6190 | 42 | 16.6 | 4.9 | 76 | 30 | 99 |
| 17Y2098 | S | 4960 | 43 | 15.4 | 4.9 | 78 | 60 | 106 |
| 17Y2096 | S | 4700 | 44 | 16.2 | 4.9 | 78 | 100 | 103 |
| MEAN | | 8750 | | 16.4 | 4.9 | 76 | 18 | 100 |
| CV | | 6.7 | | 4.2 | 1.5 | 1.2 | 90.5 | 4.1 |
| LSD (.05) | | 1186 | | 1.4 | 0.1 | 1.8 | 33.3 | 8.2 |

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

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

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

Table 3. 2018 Sutter Very Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 10Y2043 | S | 10660 | 1 | 22.3 | 4.8 | 81 | 71 | 89 |
| 14Y1006 | L | 10500 | 2 | 21.0 | 4.8 | 84 | 5 | 89 |
| CJ-201 | L | 10400 | 3 | 17.8 | 4.9 | 91 | 80 | 87 |
| L-207 | L | 10240 | 4 | 20.7 | 4.8 | 85 | 11 | 98 |
| M-210 | M | 10110 | 5 | 26.0 | 4.8 | 83 | 4 | 95 |
| 12Y2175 | M | 9920 | 6 | 24.0 | 4.8 | 88 | 3 | 92 |
| M-105 | M | 9540 | 7 | 25.1 | 4.8 | 80 | 1 | 94 |
| 17Y3000 | M | 9380 | 8 | 25.6 | 4.8 | 84 | 3 | 92 |
| L-206 | L | 9330 | 9 | 18.8 | 4.8 | 84 | 5 | 83 |
| S-102 | S | 9260 | 10 | 18.3 | 4.8 | 80 | 8 | 96 |
| M-206 | M | 9250 | 11 | 25.9 | 4.8 | 84 | 3 | 94 |
| M-209 | M | 9090 | 12 | 25.1 | 4.8 | 88 | 3 | 88 |
| MEAN | | 9810 | | 22.6 | 4.8 | 84 | 16 | 91 |
| CV | | 3.4 | | 5.8 | 1.2 | 1.0 | 48.7 | 3.5 |
| LSD (.05) | | 484 | | 1.9 | 0.1 | 1.2 | 11.4 | 4.6 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|-----|
| 17Y1087 | L | 11020 | 1 | 18.3 | 4.8 | 83 | 5 | 100 |
| 17Y3014 | M | 10560 | 2 | 21.7 | 4.8 | 84 | 45 | 99 |
| 15Y2100 | S | 10240 | 3 | 17.9 | 4.7 | 89 | 85 | 94 |
| 17Y1007 | L | 10160 | 4 | 19.6 | 4.8 | 82 | 0 | 95 |
| 16Y2028 | S | 10110 | 5 | 20.8 | 4.8 | 89 | 95 | 102 |
| 17Y1002 | L | 10070 | 6 | 19.3 | 4.9 | 82 | 3 | 101 |
| 16Y3019 | M | 10020 | 7 | 25.0 | 4.8 | 83 | 10 | 99 |
| 17Y3023 | M | 9960 | 8 | 22.5 | 4.7 | 85 | 30 | 97 |
| 17Y3082 | M | 9910 | 9 | 25.7 | 4.8 | 82 | 18 | 95 |
| 17P2216 | S | 9770 | 10 | 21.6 | 4.8 | 85 | 53 | 92 |
| 16Y127 | L | 9760 | 11 | 20.0 | 4.8 | 89 | 5 | 91 |
| 17Y3043 | M | 9710 | 12 | 21.7 | 4.8 | 84 | 10 | 88 |
| 17Y3042 | M | 9660 | 13 | 22.2 | 4.8 | 84 | 3 | 95 |
| 17Y1100 | L | 9640 | 14 | 21.7 | 5.0 | 89 | 10 | 95 |
| CM-203 | S | 9630 | 15 | 23.5 | 4.8 | 85 | 18 | 97 |
| 13Y3152 | M | 9620 | 16 | 22.5 | 4.8 | 88 | 3 | 96 |
| 17P3450 | M | 9620 | 17 | 21.4 | 4.8 | 82 | 33 | 91 |
| 17P3035 | M | 9610 | 18 | 21.5 | 4.9 | 82 | 95 | 102 |
| A-202 | L | 9590 | 19 | 19.9 | 4.8 | 87 | 3 | 93 |
| 14Y3143 | M | 9580 | 20 | 24.1 | 4.8 | 87 | 3 | 98 |
| 17Y2140 | S | 9520 | 21 | 22.9 | 4.8 | 90 | 93 | 93 |
| 15Y3036 | M | 9500 | 22 | 22.6 | 4.8 | 88 | 5 | 91 |
| 17Y3114 | M | 9490 | 23 | 24.4 | 4.8 | 86 | 13 | 96 |
| 15Y2024 | S | 9440 | 24 | 21.7 | 4.7 | 90 | 55 | 93 |
| 17Y3119 | M | 9410 | 25 | 23.4 | 4.9 | 84 | 10 | 94 |
| 17Y3131 | M | 9400 | 26 | 22.8 | 4.8 | 84 | 8 | 96 |
| M-104 | M | 9390 | 27 | 18.1 | 4.8 | 77 | 30 | 93 |
| 15Y2112 | S | 9370 | 28 | 26.2 | 4.8 | 89 | 90 | 94 |
| 16Y2127 | S | 9360 | 29 | 20.0 | 4.8 | 87 | 3 | 91 |
| CH-201 | S | 9300 | 30 | 16.5 | 4.9 | 90 | 93 | 87 |
| M-205 | M | 9270 | 31 | 24.2 | 4.8 | 90 | 0 | 91 |
| 15Y3171 | M | 9260 | 32 | 19.3 | 4.9 | 89 | 75 | 86 |
| 17Y3047 | M | 9220 | 33 | 21.7 | 4.9 | 85 | 3 | 89 |
| 17Y2087 | S | 9150 | 34 | 23.2 | 4.9 | 89 | 8 | 91 |
| 17Y3150 | M | 9110 | 35 | 22.1 | 4.8 | 88 | 0 | 97 |
| 15Y2153 | M | 8930 | 36 | 21.4 | 4.8 | 90 | 20 | 91 |
| CH-202 | S | 8810 | 37 | 20.6 | 4.8 | 88 | 95 | 85 |
| 16Y2058 | S | 8730 | 38 | 20.4 | 4.8 | 88 | 58 | 98 |
| 89Y235 | S | 8290 | 39 | 16.9 | 4.8 | 83 | 98 | 96 |
| 17Y1063 | L | 8140 | 40 | 20.3 | 4.8 | 82 | 45 | 102 |
| CA-201 | S | 7920 | 41 | 18.3 | 4.9 | 88 | 80 | 90 |
| CM-101 | S | 7110 | 42 | 17.4 | 4.8 | 81 | 10 | 88 |
| 17Y2098 | S | 5360 | 43 | 18.7 | 4.8 | 86 | 90 | 109 |
| 17Y2096 | S | 4960 | 44 | 19.4 | 4.8 | 88 | 93 | 101 |
| MEAN | | 9240 | | 21.2 | 4.8 | 86 | 36 | 94 |
| CV | | 3.5 | | 7.8 | 0.8 | 1.4 | 38.8 | 4.1 |
| LSD (.05) | | 659 | | 3.3 | 0.1 | 2.5 | 28.3 | 7.7 |

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

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

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

Table 4. 2018 Yolo Very Early Rice Variety Trials

| <i>Advanced Lines and Varieties</i> | | | | | | | | |
|--|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| | | Yield | Rank | | | | | |
| L-207 | L | 11600 | 1 | 14.9 | 4.8 | 82 | 0 | 113 |
| 10Y2043 | S | 11520 | 2 | 15.5 | 4.8 | 78 | 5 | 104 |
| 14Y1006 | L | 11500 | 3 | 14.8 | 4.8 | 78 | 0 | 99 |
| CJ-201 | L | 11070 | 4 | 13.9 | 4.8 | 87 | 0 | 100 |
| 12Y2175 | M | 10710 | 5 | 16.2 | 4.9 | 89 | 0 | 105 |
| M-206 | M | 10090 | 6 | 16.7 | 4.2 | 83 | 0 | 100 |
| M-210 | M | 10020 | 7 | 16.7 | 4.2 | 82 | 1 | 103 |
| M-105 | M | 10010 | 8 | 18.1 | 4.1 | 79 | 0 | 106 |
| L-206 | L | 9890 | 9 | 14.7 | 4.0 | 81 | 9 | 95 |
| M-209 | M | 9790 | 10 | 16.1 | 4.1 | 88 | 0 | 96 |
| 17Y3000 | M | 9650 | 11 | 16.7 | 4.1 | 83 | 0 | 99 |
| S-102 | S | 9490 | 12 | 14.0 | 4.8 | 78 | 0 | 100 |
| MEAN | | 10450 | | 15.7 | 4.5 | 82 | 1 | 101 |
| CV | | 4.0 | | 3.7 | 19.3 | 1.8 | 419.7 | 0.7 |
| LSD (.05) | | 607 | | 0.8 | 1.2 | 2.1 | 7.5 | 1.1 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | | |
| 17Y2087 | S | 11040 | 1 | 17.3 | 4.9 | 83 | 8 | 97 |
| 15Y2100 | S | 10970 | 2 | 14.4 | 4.8 | 86 | 25 | 105 |
| 17Y1002 | L | 10830 | 3 | 14.8 | 4.8 | 81 | 0 | 118 |
| 16Y2028 | S | 10780 | 4 | 17.1 | 4.9 | 82 | 65 | 109 |
| 15Y2112 | S | 10710 | 5 | 20.8 | 4.8 | 87 | 95 | 98 |
| 17Y1007 | L | 10700 | 6 | 14.4 | 4.9 | 79 | 0 | 110 |
| 16Y2127 | S | 10660 | 7 | 16.0 | 4.8 | 82 | 0 | 96 |
| 15Y2024 | S | 10640 | 8 | 15.5 | 4.8 | 88 | 58 | 104 |
| 17Y1100 | L | 10520 | 9 | 15.7 | 5.0 | 86 | 0 | 105 |
| 16Y127 | L | 10490 | 10 | 13.7 | 4.9 | 84 | 0 | 106 |
| 17Y3023 | M | 10410 | 11 | 15.3 | 4.8 | 85 | 0 | 103 |
| 17P2216 | S | 10360 | 12 | 16.2 | 4.7 | 85 | 3 | 103 |
| 17Y3047 | M | 10250 | 13 | 13.8 | 4.9 | 85 | 5 | 105 |
| 17P3450 | M | 10240 | 14 | 14.5 | 4.8 | 84 | 3 | 103 |
| 17Y3114 | M | 10180 | 15 | 15.5 | 4.9 | 85 | 8 | 108 |
| 17Y1087 | L | 10170 | 16 | 14.3 | 4.9 | 81 | 3 | 101 |
| 16Y2058 | S | 10160 | 17 | 15.3 | 4.8 | 82 | 8 | 103 |
| 17Y3014 | M | 10140 | 18 | 15.6 | 4.9 | 84 | 45 | 106 |
| 17Y2140 | S | 10130 | 19 | 16.4 | 4.8 | 85 | 65 | 102 |
| CH-201 | S | 10100 | 20 | 18.1 | 4.8 | 83 | 90 | 105 |
| 17P3035 | M | 10090 | 21 | 14.8 | 4.8 | 81 | 88 | 101 |
| 17Y3119 | M | 10050 | 22 | 15.6 | 4.9 | 83 | 5 | 104 |
| 14Y3143 | M | 10040 | 23 | 14.6 | 4.8 | 83 | 0 | 104 |
| 17Y3042 | M | 10000 | 24 | 15.2 | 4.9 | 82 | 0 | 105 |
| CH-202 | S | 9930 | 25 | 16.6 | 4.9 | 81 | 93 | 97 |
| 16Y3019 | M | 9910 | 26 | 16.8 | 4.8 | 83 | 3 | 100 |
| CM-203 | S | 9860 | 27 | 15.7 | 4.9 | 80 | 25 | 110 |
| 17Y3082 | M | 9850 | 28 | 16.0 | 4.8 | 86 | 3 | 101 |
| M-104 | M | 9780 | 29 | 13.5 | 4.8 | 76 | 10 | 92 |
| M-205 | M | 9760 | 30 | 14.9 | 4.8 | 91 | 3 | 96 |
| 15Y3036 | M | 9730 | 31 | 14.2 | 4.9 | 84 | 0 | 102 |
| 17Y3131 | M | 9670 | 32 | 15.6 | 4.8 | 85 | 3 | 97 |
| A-202 | L | 9610 | 33 | 10.3 | 4.8 | 82 | 0 | 103 |
| 89Y235 | S | 9330 | 34 | 14.9 | 4.8 | 81 | 83 | 100 |
| 15Y3171 | M | 9250 | 35 | 15.5 | 4.8 | 91 | 3 | 96 |
| 17Y3043 | M | 9190 | 36 | 15.9 | 4.9 | 89 | 0 | 98 |
| 13Y3152 | M | 9060 | 37 | 14.8 | 4.8 | 87 | 0 | 102 |
| 17Y3150 | M | 9050 | 38 | 16.6 | 4.8 | 87 | 0 | 107 |
| 15Y2153 | M | 9010 | 39 | 15.2 | 4.8 | 91 | 0 | 104 |
| 17Y1063 | L | 8770 | 40 | 17.0 | 4.9 | 82 | 45 | 117 |
| CM-101 | S | 8500 | 41 | 12.4 | 4.8 | 80 | 10 | 99 |
| CA-201 | S | 7970 | 42 | 14.7 | 4.9 | 81 | 85 | 99 |
| 17Y2096 | S | 6990 | 43 | 14.7 | 5.0 | 82 | 95 | 114 |
| 17Y2098 | S | 5250 | 44 | 17.4 | 4.8 | 82 | 98 | 116 |
| MEAN | | 9780 | | 15.4 | 4.8 | 84 | 26 | 103 |
| CV | | 5.0 | | 9.1 | 1.2 | 1.9 | 46.0 | 1.6 |
| LSD (.05) | | 986 | | 2.8 | 0.1 | 3.2 | 23.7 | 3.3 |

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

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

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

Table 5. 2018 South Yolo Very Early Rice Variety Trials

| <i>Advanced Lines and Varieties</i> | | | | | | | | |
|--|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| | | Yield | Rank | | | | | |
| 10Y2043 | S | 8680 | 1 | 18.9 | 4.8 | 92 | 8 | 82 |
| 14Y1006 | L | 8430 | 2 | 18.0 | 4.8 | 91 | 0 | 82 |
| S-102 | S | 8320 | 3 | 18.2 | 4.7 | 87 | 8 | 85 |
| M-105 | M | 8210 | 4 | 17.5 | 4.8 | 88 | 5 | 85 |
| L-207 | L | 8010 | 5 | 20.2 | 4.8 | 97 | 3 | 83 |
| M-210 | M | 7830 | 6 | 17.5 | 4.8 | 94 | 5 | 85 |
| 17Y3000 | M | 7650 | 7 | 18.0 | 4.7 | 96 | 8 | 82 |
| M-206 | M | 7640 | 8 | 17.3 | 4.8 | 96 | 5 | 83 |
| M-209 | M | 7580 | 9 | 17.6 | 4.8 | 100 | 1 | 81 |
| L-206 | L | 7260 | 10 | 18.2 | 4.8 | 95 | 8 | 79 |
| 12Y2175 | M | 7170 | 11 | 17.9 | 4.7 | 98 | 8 | 84 |
| CJ-201 | L | 6970 | 12 | 19.5 | 4.5 | 101 | 3 | 80 |
| MEAN | | 7810 | | 18.2 | 4.7 | 94 | 5 | 82 |
| CV | | 5.0 | | 8.4 | 1.9 | 2.3 | 72.3 | 4.7 |
| LSD (.05) | | 562 | | 2.2 | 0.1 | 3.2 | 5.1 | 5.6 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | | |
| 14Y3143 | M | 9230 | 1 | 14.6 | 4.8 | 100 | 3 | 85 |
| 16Y2127 | S | 8870 | 2 | 16.6 | 4.8 | 93 | 8 | 89 |
| 16Y2028 | S | 8870 | 3 | 15.4 | 4.7 | 98 | 35 | 84 |
| M-104 | M | 8830 | 4 | 13.0 | 4.8 | 87 | 5 | 83 |
| 17P2216 | S | 8730 | 5 | 15.7 | 4.8 | 93 | 5 | 83 |
| 17Y3014 | M | 8630 | 6 | 14.0 | 4.9 | 99 | 30 | 86 |
| CH-202 | S | 8590 | 7 | 14.8 | 4.6 | 100 | 40 | 79 |
| 15Y2100 | S | 8530 | 8 | 15.2 | 4.7 | 96 | 8 | 83 |
| 16Y2058 | S | 8500 | 9 | 14.5 | 4.8 | 94 | 23 | 88 |
| 17Y2087 | S | 8490 | 10 | 15.0 | 4.8 | 94 | 23 | 84 |
| 17Y3023 | M | 8490 | 11 | 11.3 | 4.8 | 101 | 23 | 83 |
| 89Y235 | S | 8440 | 12 | 16.4 | 4.7 | 92 | 23 | 84 |
| CM-203 | S | 8420 | 13 | 15.5 | 4.7 | 98 | 8 | 86 |
| 17Y3042 | M | 8400 | 14 | 13.0 | 4.8 | 98 | 18 | 81 |
| 17P3035 | M | 8400 | 15 | 12.8 | 4.9 | 97 | 45 | 89 |
| 15Y2112 | S | 8360 | 16 | 16.6 | 4.8 | 101 | 50 | 85 |
| 13Y3152 | M | 8280 | 17 | 13.3 | 4.7 | 101 | 20 | 85 |
| 17Y2140 | S | 8260 | 18 | 14.9 | 4.9 | 99 | 20 | 87 |
| 16Y127 | L | 8180 | 19 | 13.8 | 4.8 | 98 | 8 | 84 |
| 16Y3019 | M | 8180 | 20 | 14.9 | 4.8 | 98 | 10 | 92 |
| 17Y3082 | M | 8170 | 21 | 11.9 | 4.8 | 101 | 28 | 78 |
| 17Y1002 | L | 8110 | 22 | 15.7 | 4.9 | 91 | 3 | 95 |
| CH-201 | S | 8040 | 23 | 15.4 | 4.6 | 101 | 3 | 78 |
| 17Y2096 | S | 8030 | 24 | 15.5 | 4.6 | 93 | 15 | 87 |
| CM-101 | S | 8020 | 25 | 16.0 | 4.7 | 89 | 3 | 88 |
| 17Y3114 | M | 8020 | 26 | 15.2 | 4.8 | 101 | 5 | 84 |
| 15Y3036 | M | 8010 | 27 | 14.8 | 4.8 | 86 | 3 | 82 |
| 17Y3043 | M | 7940 | 28 | 14.8 | 4.9 | 101 | 10 | 81 |
| 15Y2024 | S | 7930 | 29 | 16.7 | 4.6 | 99 | 23 | 84 |
| 17Y3131 | M | 7810 | 30 | 13.5 | 4.8 | 99 | 18 | 87 |
| 17Y3047 | M | 7790 | 31 | 15.8 | 4.8 | 98 | 13 | 76 |
| 17Y3119 | M | 7670 | 32 | 13.2 | 4.8 | 99 | 38 | 78 |
| 17Y2098 | S | 7530 | 33 | 15.5 | 4.6 | 92 | 18 | 92 |
| 17Y1007 | L | 7520 | 34 | 15.2 | 4.8 | 93 | 3 | 86 |
| 17P3450 | M | 7360 | 35 | 13.5 | 4.8 | 94 | 28 | 84 |
| CA-201 | S | 7310 | 36 | 16.6 | 4.5 | 98 | 0 | 84 |
| A-202 | L | 7210 | 37 | 17.6 | 4.9 | 99 | 0 | 86 |
| 15Y2153 | M | 7120 | 38 | 18.4 | 4.8 | 101 | 0 | 83 |
| 17Y1100 | L | 7050 | 39 | 16.0 | 4.9 | 102 | 0 | 84 |
| M-205 | M | 6940 | 40 | 15.5 | 4.9 | 104 | 0 | 82 |
| 17Y3150 | M | 6810 | 41 | 13.8 | 4.9 | 103 | 0 | 84 |
| 17Y1087 | L | 6800 | 42 | 15.9 | 4.9 | 94 | 0 | 83 |
| 15Y3171 | M | 6240 | 43 | 14.0 | 4.7 | 103 | 0 | 76 |
| 17Y1063 | L | 6070 | 44 | 17.3 | 4.8 | 94 | 8 | 87 |
| MEAN | | 7960 | | 15.0 | 4.8 | 97 | 14 | 84 |
| CV | | 6.0 | | 10.4 | 1.6 | 4.5 | 117.5 | 5.2 |
| LSD (.05) | | 961 | | 3.1 | 0.2 | 8.7 | 33.0 | 8.8 |

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

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

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

Table 6. Grain Yield (lb/acre @14% moisture) Summary of Very Early Rice Varieties by Location and Year (2014-2018)

| Location | Year | M104 | M105 | M206 | Calmochi | | |
|----------------|------|------|-------|-------|----------|-------|-------|
| | | | | | 101 | S102 | L206 |
| Biggs (RES) | 2014 | 8150 | 7680 | 9200 | 6540 | 7640 | 8580 |
| | 2015 | 8580 | 8150 | 9350 | 7940 | 9520 | 8910 |
| | 2016 | | 10380 | 10250 | 7490 | 8960 | 10100 |
| | 2017 | 8790 | 9270 | 9680 | 8140 | 9260 | 9850 |
| | 2018 | 7670 | 8600 | 9090 | 6390 | 7890 | 9770 |
| Location Mean | | 8298 | 8816 | 9514 | 7300 | 8654 | 9442 |
| Sutter | 2014 | 9510 | 10380 | 9710 | 7780 | 8770 | 9440 |
| | 2015 | 9520 | 10350 | 9900 | 7990 | 9190 | 9820 |
| | 2016 | | 11630 | 11110 | 9420 | 10720 | 9260 |
| | 2017 | 9030 | 9380 | 9240 | 7250 | 8770 | 8580 |
| | 2018 | 9390 | 9540 | 9250 | 7110 | 9260 | 9330 |
| Location Mean | | 9363 | 10256 | 9842 | 7910 | 9342 | 9286 |
| Yolo | 2014 | 9610 | 10150 | 9770 | 7580 | 8980 | 8760 |
| | 2015 | 8150 | 7210 | 7490 | 5560 | 6940 | 7740 |
| | 2016 | | 10420 | 10980 | 9290 | 9530 | 10090 |
| | 2017 | 9670 | 8550 | 8890 | 7790 | 8360 | 9250 |
| | 2018 | 9780 | 10010 | 10090 | 8500 | 9490 | 9890 |
| Location Mean | | 9303 | 9268 | 9444 | 7744 | 8660 | 9146 |
| South Yolo | 2017 | 8240 | 8590 | 7530 | 8570 | 8610 | 6860 |
| | 2018 | 8830 | 8210 | 7640 | 8020 | 8330 | 7260 |
| Location Mean | | 8535 | 8400 | 7585 | 8295 | 8470 | 7060 |
| Loc/Years Mean | | 8874 | 9185 | 9096 | 7812 | 8782 | 8734 |

Table 7. 2018 Four Location Early Rice Variety Trials

Advanced Lines and Varieties

| | | Single Location Yields | | | | | | | | | | | | | | | | | |
|-----------|---------------|--|------|-------|------|-------|------|-------|------|--------|------|-------|------|--|------|----------------------------|---------------------------|--------------------|-------------------------|
| | | Over All Ave Grain Yield at 14% Moisture lbs/ac | | | | Biggs | | Butte | | Colusa | | Yuba | | Grain Moisture at Harvest (%) | | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| Variety | Grain Type | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | | | | | | |
| 14Y1006 | L | 9930 | 1 | 10990 | 1 | 9520 | 1 | 9310 | 5 | 9890 | 2 | 16.6 | 4.8 | 79 | 33 | 101 | | | |
| 10Y2043 | S | 9880 | 2 | 10280 | 5 | 9040 | 5 | 9600 | 2 | 10630 | 1 | 18.0 | 4.8 | 80 | 82 | 97 | | | |
| L-207 | L | 9720 | 3 | 10120 | 6 | 9420 | 2 | 10000 | 1 | 9340 | 6 | 16.0 | 4.8 | 83 | 10 | 110 | | | |
| 12Y2175 | M | 9680 | 4 | 10740 | 3 | 9270 | 4 | 9570 | 3 | 9140 | 7 | 21.0 | 4.8 | 87 | 26 | 104 | | | |
| CJ-201 | L | 9480 | 5 | 10860 | 2 | 9330 | 3 | 9370 | 4 | 8360 | 11 | 15.7 | 4.8 | 88 | 27 | 99 | | | |
| M-209 | M | 9040 | 6 | 10640 | 4 | 7990 | 10 | 9120 | 6 | 8400 | 10 | 21.7 | 4.8 | 87 | 25 | 100 | | | |
| M-206 | M | 8910 | 7 | 9050 | 10 | 8270 | 8 | 8960 | 8 | 9350 | 5 | 20.2 | 4.8 | 81 | 53 | 104 | | | |
| M-210 | M | 8910 | 8 | 9230 | 9 | 8290 | 7 | 8980 | 7 | 9120 | 8 | 20.3 | 4.8 | 80 | 55 | 101 | | | |
| M-105 | M | 8900 | 9 | 9360 | 8 | 8350 | 6 | 8470 | 10 | 9450 | 4 | 19.5 | 4.8 | 78 | 68 | 101 | | | |
| L-206 | L | 8900 | 10 | 9750 | 7 | 7960 | 12 | 8940 | 9 | 8930 | 9 | 15.7 | 4.8 | 80 | 60 | 100 | | | |
| 17Y3000 | M | 8700 | 11 | 8980 | 11 | 8170 | 9 | 8190 | 11 | 9470 | 3 | 20.3 | 4.8 | 81 | 63 | 101 | | | |
| S-102 | S | 8100 | 12 | 8220 | 12 | 7980 | 11 | 8010 | 12 | 8170 | 12 | 15.3 | 4.8 | 77 | 75 | 100 | | | |
| MEAN | | 9180 | | 9850 | | 8630 | | 9040 | | 9190 | | 18.3 | 4.8 | 82 | 48 | 102 | | | |
| CV | | 5.3 | | 5.0 | | 4.3 | | 6.9 | | 4.6 | | 5.5 | 1.3 | 1.9 | 40.7 | 10.1 | | | |
| LSD (.05) | | 722 | | 704 | | 530 | | 902 | | 608 | | 2.3 | 0.1 | 2.3 | 24.0 | 5.2 | | | |

Preliminary Lines and Varieties

| | | | | | | | | | | | | | | | | |
|-----------|---|------|----|-------|----|------|----|-------|----|-------|----|------|-----|-----|------|-----|
| 17Y2048 | S | 9730 | 1 | 9960 | 14 | 9410 | 1 | 9040 | 28 | 10520 | 1 | 18.7 | 4.8 | 79 | 59 | 96 |
| 17Y1027 | L | 9730 | 2 | 10480 | 4 | 9130 | 8 | 10030 | 3 | 9280 | 4 | 16.2 | 4.8 | 81 | 11 | 103 |
| 17P3020 | M | 9390 | 3 | 9540 | 26 | 9060 | 9 | 9270 | 15 | 9670 | 2 | 17.1 | 4.8 | 80 | 54 | 98 |
| 16Y3112 | M | 9380 | 4 | 10400 | 5 | 8830 | 17 | 9430 | 7 | 8840 | 9 | 20.3 | 4.8 | 87 | 41 | 104 |
| 16Y1154 | L | 9340 | 5 | 9660 | 24 | 9170 | 5 | 10050 | 2 | 8490 | 16 | 15.8 | 4.8 | 84 | 11 | 112 |
| 17Y3081 | M | 9270 | 6 | 10230 | 9 | 8780 | 20 | 9300 | 13 | 8780 | 12 | 19.0 | 4.8 | 85 | 29 | 104 |
| 15Y2135 | S | 9270 | 7 | 9860 | 17 | 9260 | 4 | 9420 | 8 | 8520 | 15 | 19.7 | 4.8 | 85 | 34 | 101 |
| 17Y3047 | M | 9250 | 8 | 10240 | 8 | 8870 | 16 | 10090 | 1 | 7800 | 32 | 17.9 | 4.8 | 83 | 44 | 96 |
| 17P2217 | S | 9240 | 9 | 9110 | 33 | 8990 | 12 | 9220 | 17 | 9650 | 3 | 17.8 | 4.8 | 82 | 50 | 105 |
| 16Y1029 | L | 9200 | 10 | 10250 | 7 | 8600 | 28 | 9630 | 5 | 8320 | 20 | 15.1 | 4.8 | 81 | 6 | 105 |
| 15Y2100 | S | 9170 | 11 | 9390 | 29 | 8820 | 19 | 9550 | 6 | 8920 | 8 | 16.8 | 4.8 | 86 | 64 | 100 |
| 17P2215 | S | 9160 | 12 | 10520 | 3 | 9330 | 3 | 9270 | 16 | 7500 | 37 | 20.0 | 4.8 | 83 | 46 | 99 |
| CM-203 | S | 9150 | 13 | 9690 | 22 | 8660 | 26 | 9210 | 18 | 9050 | 7 | 19.9 | 4.9 | 81 | 84 | 103 |
| 17Y3086 | M | 9140 | 14 | 10320 | 6 | 8910 | 14 | 8740 | 33 | 8590 | 14 | 18.8 | 4.8 | 85 | 32 | 102 |
| 17Y1083 | L | 9110 | 15 | 10150 | 11 | 9390 | 2 | 9810 | 4 | 7100 | 41 | 17.7 | 4.8 | 86 | 3 | 93 |
| 17Y3131 | M | 9110 | 16 | 8820 | 38 | 9160 | 6 | 9300 | 12 | 9170 | 5 | 19.2 | 4.8 | 84 | 19 | 100 |
| 15Y3086 | M | 9090 | 17 | 9590 | 25 | 9150 | 7 | 9210 | 19 | 8420 | 17 | 17.1 | 4.8 | 82 | 41 | 98 |
| 16P3288 | M | 9000 | 18 | 9760 | 19 | 8720 | 23 | 9210 | 20 | 8340 | 19 | 19.8 | 4.8 | 86 | 22 | 100 |
| 17P3389 | M | 9000 | 19 | 10090 | 13 | 9050 | 10 | 9050 | 27 | 7810 | 31 | 21.2 | 4.8 | 89 | 6 | 102 |
| 16Y127 | L | 8960 | 20 | 9740 | 20 | 8740 | 21 | 9050 | 26 | 8290 | 21 | 16.3 | 4.8 | 86 | 35 | 105 |
| 16Y3111 | M | 8960 | 21 | 9950 | 15 | 8460 | 32 | 9410 | 9 | 8000 | 29 | 22.2 | 4.8 | 88 | 11 | 106 |
| 17Y3114 | M | 8920 | 22 | 9280 | 31 | 8360 | 35 | 8890 | 31 | 9170 | 6 | 19.5 | 4.8 | 81 | 64 | 103 |
| 15Y2153 | M | 8900 | 23 | 10570 | 2 | 8180 | 39 | 8790 | 32 | 8050 | 27 | 22.4 | 4.7 | 89 | 9 | 100 |
| 17Y3129 | M | 8860 | 24 | 9690 | 23 | 8720 | 22 | 9200 | 21 | 7830 | 30 | 19.6 | 4.9 | 86 | 36 | 104 |
| 15Y3171 | M | 8840 | 25 | 10930 | 1 | 8690 | 25 | 8940 | 30 | 6780 | 45 | 19.2 | 4.9 | 89 | 14 | 98 |
| 17Y3090 | M | 8790 | 26 | 9490 | 28 | 8370 | 34 | 9030 | 29 | 8280 | 22 | 19.0 | 4.8 | 86 | 34 | 108 |
| 17Y3087 | M | 8790 | 27 | 9100 | 34 | 8820 | 18 | 9130 | 23 | 8100 | 26 | 20.3 | 4.8 | 86 | 9 | 103 |
| 15Y2112 | S | 8780 | 28 | 10090 | 12 | 8620 | 27 | 8660 | 34 | 7740 | 33 | 22.9 | 4.8 | 85 | 86 | 99 |
| 16Y2117 | S | 8770 | 29 | 9930 | 16 | 8290 | 37 | 8030 | 41 | 8810 | 11 | 18.6 | 4.9 | 82 | 74 | 97 |
| 17Y3045 | M | 8760 | 30 | 9850 | 18 | 8720 | 24 | 9100 | 24 | 7390 | 38 | 19.5 | 4.9 | 85 | 8 | 105 |
| 17Y3023 | M | 8670 | 31 | 9240 | 32 | 8910 | 15 | 9310 | 11 | 7240 | 39 | 18.8 | 4.8 | 81 | 64 | 105 |
| 16Y3121 | M | 8670 | 32 | 9700 | 21 | 8320 | 36 | 9130 | 22 | 7510 | 36 | 20.2 | 4.8 | 89 | 3 | 99 |
| 17Y2138 | S | 8650 | 33 | 8890 | 37 | 8990 | 11 | 8360 | 39 | 8340 | 18 | 16.5 | 4.8 | 84 | 52 | 101 |
| A-202 | L | 8620 | 34 | 9070 | 35 | 7760 | 42 | 9360 | 10 | 8280 | 23 | 16.6 | 4.9 | 83 | 23 | 100 |
| 16Y3108 | M | 8600 | 35 | 10230 | 10 | 7970 | 41 | 9100 | 25 | 7090 | 42 | 21.7 | 4.8 | 90 | 1 | 97 |
| 17Y2087 | S | 8520 | 36 | 8800 | 39 | 8410 | 33 | 8620 | 35 | 8250 | 24 | 18.7 | 4.9 | 82 | 35 | 95 |
| 14M206G4 | M | 8510 | 37 | 8890 | 36 | 8130 | 40 | 8200 | 40 | 8810 | 10 | 19.4 | 4.8 | 82 | 66 | 101 |
| 16Y3054 | M | 8500 | 38 | 8630 | 40 | 8960 | 13 | 8370 | 38 | 8030 | 28 | 19.0 | 4.9 | 83 | 70 | 99 |
| 17P3344 | M | 8470 | 39 | 9530 | 27 | 8510 | 31 | 9290 | 14 | 6560 | 46 | 19.4 | 4.8 | 87 | 3 | 98 |
| M-205 | M | 8360 | 40 | 9280 | 30 | 8540 | 30 | 8540 | 36 | 7090 | 43 | 20.6 | 4.8 | 90 | 5 | 97 |
| M-104 | M | 8340 | 41 | 8260 | 43 | 8550 | 29 | 7810 | 42 | 8720 | 13 | 16.6 | 4.8 | 75 | 68 | 97 |
| 15Y2024 | S | 8190 | 42 | 7950 | 44 | 8210 | 38 | 8470 | 37 | 8110 | 25 | 17.2 | 4.8 | 85 | 66 | 97 |
| CH-202 | S | 7670 | 43 | 8340 | 42 | 7060 | 43 | 7640 | 43 | 7630 | 35 | 16.3 | 4.8 | 82 | 80 | 94 |
| CH-201 | S | 7180 | 44 | 8510 | 41 | 6720 | 44 | 7290 | 44 | 6210 | 47 | 15.2 | 4.9 | 87 | 74 | 96 |
| CM-101 | S | 7080 | 45 | 6800 | 45 | 6680 | 45 | 7100 | 47 | 7740 | 34 | 15.9 | 4.8 | 81 | 71 | 94 |
| CA-201 | S | 6720 | 46 | 6640 | 46 | 5970 | 48 | 7190 | 46 | 7070 | 44 | 16.3 | 4.9 | 84 | 66 | 102 |
| 16Y1064 | L | 6710 | 47 | 6410 | 47 | 6090 | 47 | 7210 | 45 | 7130 | 40 | 15.2 | 4.8 | 88 | 1 | 102 |
| 15Y1195 | L | 5840 | 48 | 5940 | 48 | 6120 | 46 | 6600 | 48 | 4690 | 48 | 16.8 | 4.8 | 90 | 2 | 92 |
| MEAN | | 8670 | | 9330 | | 8440 | | 8850 | | 8080 | | 18.5 | 4.8 | 84 | 37 | 100 |
| CV | | 5.7 | | 5.7 | | 3.7 | | 4.3 | | 8.4 | | 5.9 | 1.3 | 1.5 | 34.4 | 9.9 |
| LSD (.05) | | 832 | | 1068 | | 633 | | 771 | | 1362 | | 2.4 | 0.1 | 1.5 | 28.9 | 5.7 |

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

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

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

Table 8. 2018 Biggs Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 14Y1006 | L | 10990 | 1 | 14.3 | 4.9 | 75 | 9 | 103 |
| CJ-201 | L | 10860 | 2 | 14.4 | 4.9 | 79 | 0 | 96 |
| 12Y2175 | M | 10740 | 3 | 18.3 | 4.9 | 81 | 4 | 106 |
| M-209 | M | 10640 | 4 | 19.9 | 4.8 | 80 | 0 | 99 |
| 10Y2043 | S | 10280 | 5 | 13.8 | 4.9 | 72 | 55 | 92 |
| L-207 | L | 10120 | 6 | 14.2 | 4.9 | 78 | 0 | 112 |
| L-206 | L | 9750 | 7 | 13.9 | 4.8 | 75 | 0 | 95 |
| M-105 | M | 9360 | 8 | 17.9 | 4.9 | 72 | 48 | 102 |
| M-210 | M | 9230 | 9 | 18.5 | 4.8 | 75 | 45 | 101 |
| M-206 | M | 9050 | 10 | 18.7 | 4.8 | 75 | 38 | 104 |
| 17Y3000 | M | 8980 | 11 | 18.0 | 4.9 | 75 | 45 | 101 |
| S-102 | S | 8220 | 12 | 10.4 | 4.8 | 71 | 55 | 97 |
| MEAN | | 9850 | | 16.0 | 4.8 | 76 | 25 | 100 |
| CV | | 5.0 | | 3.8 | 1.4 | 0.9 | 57.2 | 2.9 |
| LSD (.05) | | 704 | | 0.9 | 0.1 | 1.0 | 20.4 | 4.2 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|-----|
| 15Y3171 | M | 10930 | 1 | 18.5 | 5.0 | 81 | 0 | 97 |
| 15Y2153 | M | 10570 | 2 | 21.0 | 4.8 | 84 | 3 | 102 |
| 17P2215 | S | 10520 | 3 | 17.9 | 4.9 | 77 | 55 | 100 |
| 17Y1027 | L | 10480 | 4 | 14.6 | 4.8 | 75 | 0 | 97 |
| 16Y3112 | M | 10400 | 5 | 20.1 | 4.8 | 81 | 0 | 109 |
| 17Y3086 | M | 10320 | 6 | 17.4 | 4.8 | 78 | 28 | 106 |
| 16Y1029 | L | 10250 | 7 | 14.8 | 4.8 | 76 | 0 | 99 |
| 17Y3047 | M | 10240 | 8 | 16.4 | 4.9 | 77 | 0 | 95 |
| 17Y3081 | M | 10230 | 9 | 18.1 | 4.9 | 78 | 8 | 103 |
| 16Y3108 | M | 10230 | 10 | 20.7 | 4.9 | 85 | 0 | 100 |
| 17Y1083 | L | 10150 | 11 | 15.0 | 4.8 | 78 | 0 | 93 |
| 15Y2112 | S | 10090 | 12 | 19.4 | 4.8 | 80 | 60 | 98 |
| 17P3389 | M | 10090 | 13 | 18.0 | 4.9 | 82 | 0 | 100 |
| 17Y2048 | S | 9960 | 14 | 15.9 | 4.8 | 72 | 20 | 94 |
| 16Y3111 | M | 9950 | 15 | 19.5 | 4.8 | 81 | 0 | 109 |
| 16Y2117 | S | 9930 | 16 | 13.8 | 5.0 | 76 | 40 | 92 |
| 15Y2135 | S | 9860 | 17 | 15.5 | 4.7 | 76 | 45 | 100 |
| 17Y3045 | M | 9850 | 18 | 18.8 | 4.9 | 78 | 3 | 106 |
| 16P3288 | M | 9760 | 19 | 17.4 | 4.9 | 78 | 0 | 104 |
| 16Y127 | L | 9740 | 20 | 15.3 | 5.0 | 78 | 0 | 104 |
| 16Y3121 | M | 9700 | 21 | 18.3 | 4.9 | 80 | 0 | 98 |
| CM-203 | S | 9690 | 22 | 15.9 | 5.0 | 73 | 75 | 102 |
| 17Y3129 | M | 9690 | 23 | 17.5 | 4.9 | 77 | 18 | 104 |
| 16Y1154 | L | 9660 | 24 | 13.9 | 4.9 | 76 | 0 | 112 |
| 15Y3086 | M | 9590 | 25 | 15.8 | 4.8 | 76 | 15 | 93 |
| 17P3020 | M | 9540 | 26 | 16.7 | 4.8 | 74 | 65 | 96 |
| 17P3344 | M | 9530 | 27 | 17.5 | 4.9 | 80 | 0 | 99 |
| 17Y3090 | M | 9490 | 28 | 17.9 | 4.9 | 79 | 10 | 109 |
| 15Y2100 | S | 9390 | 29 | 14.5 | 4.8 | 80 | 0 | 96 |
| M-205 | M | 9280 | 30 | 18.0 | 4.9 | 81 | 0 | 96 |
| 17Y3114 | M | 9280 | 31 | 18.3 | 4.9 | 76 | 50 | 101 |
| 17Y3023 | M | 9240 | 32 | 17.0 | 4.9 | 75 | 55 | 107 |
| 17P2217 | S | 9110 | 33 | 15.7 | 4.7 | 76 | 20 | 107 |
| 17Y3087 | M | 9100 | 34 | 18.0 | 4.9 | 78 | 3 | 98 |
| A-202 | L | 9070 | 35 | 15.2 | 4.9 | 76 | 0 | 99 |
| 14M206G4 | M | 8890 | 36 | 18.3 | 4.8 | 75 | 60 | 104 |
| 17Y2138 | S | 8890 | 37 | 12.4 | 4.8 | 77 | 0 | 96 |
| 17Y3131 | M | 8820 | 38 | 17.6 | 4.9 | 77 | 5 | 102 |
| 17Y2087 | S | 8800 | 39 | 15.2 | 5.0 | 76 | 0 | 93 |
| 16Y3054 | M | 8630 | 40 | 18.2 | 4.9 | 76 | 25 | 98 |
| CH-201 | S | 8510 | 41 | 11.3 | 5.0 | 78 | 65 | 98 |
| CH-202 | S | 8340 | 42 | 13.3 | 4.7 | 75 | 35 | 93 |
| M-104 | M | 8260 | 43 | 15.9 | 4.8 | 70 | 40 | 99 |
| 15Y2024 | S | 7950 | 44 | 13.1 | 4.8 | 79 | 0 | 92 |
| CM-101 | S | 6800 | 45 | 12.0 | 4.8 | 73 | 45 | 98 |
| CA-201 | S | 6640 | 46 | 13.7 | 4.9 | 77 | 45 | 99 |
| 16Y1064 | L | 6410 | 47 | 13.1 | 4.7 | 79 | 0 | 98 |
| 15Y1195 | L | 5940 | 48 | 14.2 | 4.9 | 81 | 0 | 87 |
| MEAN | | 9330 | | 16.4 | 4.8 | 77 | 19 | 99 |
| CV | | 5.7 | | 4.2 | 1.5 | 1.0 | 85.2 | 3.9 |
| LSD (.05) | | 1068 | | 1.4 | 0.1 | 1.5 | 31.8 | 7.7 |

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

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

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

Table 9. 2018 Butte Early Rice Variety Trial

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 14Y1006 | L | 9520 | 1 | 19.8 | 4.8 | 77 | 61 | 105 |
| L-207 | L | 9420 | 2 | 19.2 | 4.8 | 84 | 18 | 107 |
| CJ-201 | L | 9330 | 3 | 17.7 | 4.8 | 86 | 70 | 101 |
| 12Y2175 | M | 9270 | 4 | 28.1 | 4.8 | 86 | 46 | 102 |
| 10Y2043 | S | 9040 | 5 | 22.8 | 4.8 | 79 | 90 | 94 |
| M-105 | M | 8350 | 6 | 21.7 | 4.8 | 77 | 86 | 99 |
| M-210 | M | 8290 | 7 | 25.7 | 4.8 | 80 | 78 | 102 |
| M-206 | M | 8270 | 8 | 24.6 | 4.8 | 80 | 65 | 102 |
| 17Y3000 | M | 8170 | 9 | 25.0 | 4.8 | 80 | 66 | 99 |
| M-209 | M | 7990 | 10 | 27.6 | 4.8 | 87 | 18 | 100 |
| S-102 | S | 7980 | 11 | 18.2 | 4.8 | 79 | 95 | 104 |
| L-206 | L | 7960 | 12 | 16.4 | 4.7 | 79 | 94 | 104 |
| MEAN | | 8630 | | 22.2 | 4.8 | 81 | 66 | 102 |
| CV | | 4.3 | | 4.4 | 1.1 | 1.0 | 20.4 | 5.2 |
| LSD (.05) | | 530 | | 1.4 | 0.1 | 1.2 | 19.2 | 7.6 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|------|----|------|-----|-----|------|-----|
| 17Y2048 | S | 9410 | 1 | 22.1 | 4.8 | 79 | 73 | 96 |
| 17Y1083 | L | 9390 | 2 | 21.0 | 4.9 | 83 | 0 | 99 |
| 17P2215 | S | 9330 | 3 | 22.6 | 4.8 | 83 | 68 | 102 |
| 15Y2135 | S | 9260 | 4 | 23.9 | 4.8 | 85 | 25 | 96 |
| 16Y1154 | L | 9170 | 5 | 20.4 | 4.8 | 84 | 15 | 115 |
| 17Y3131 | M | 9160 | 6 | 25.4 | 4.8 | 83 | 13 | 101 |
| 15Y3086 | M | 9150 | 7 | 22.0 | 4.9 | 82 | 48 | 107 |
| 17Y1027 | L | 9130 | 8 | 19.5 | 4.8 | 80 | 15 | 108 |
| 17P3020 | M | 9060 | 9 | 21.0 | 4.8 | 80 | 45 | 103 |
| 17P3389 | M | 9050 | 10 | 30.1 | 4.8 | 89 | 10 | 105 |
| 17Y2138 | S | 8990 | 11 | 20.0 | 4.8 | 84 | 83 | 102 |
| 17P2217 | S | 8990 | 12 | 21.5 | 4.8 | 83 | 83 | 107 |
| 16Y3054 | M | 8960 | 13 | 23.4 | 4.9 | 81 | 93 | 99 |
| 17Y3086 | M | 8910 | 14 | 23.2 | 4.8 | 83 | 38 | 99 |
| 17Y3023 | M | 8910 | 15 | 24.7 | 4.8 | 81 | 80 | 105 |
| 17Y3047 | M | 8870 | 16 | 21.9 | 4.8 | 82 | 83 | 95 |
| 16Y3112 | M | 8830 | 17 | 26.0 | 4.8 | 89 | 73 | 105 |
| 17Y3087 | M | 8820 | 18 | 28.4 | 4.8 | 85 | 5 | 108 |
| 15Y2100 | S | 8820 | 19 | 20.1 | 4.7 | 86 | 75 | 102 |
| 17Y3081 | M | 8780 | 20 | 23.8 | 4.8 | 84 | 33 | 106 |
| 16Y127 | L | 8740 | 21 | 19.8 | 4.8 | 88 | 45 | 107 |
| 17Y3129 | M | 8720 | 22 | 24.6 | 4.9 | 86 | 50 | 103 |
| 16P3288 | M | 8720 | 23 | 26.3 | 4.8 | 86 | 10 | 100 |
| 17Y3045 | M | 8720 | 24 | 24.6 | 4.9 | 84 | 5 | 107 |
| 15Y3171 | M | 8690 | 25 | 24.3 | 4.8 | 88 | 3 | 99 |
| CM-203 | S | 8660 | 26 | 23.6 | 5.0 | 82 | 95 | 102 |
| 15Y2112 | S | 8620 | 27 | 27.4 | 4.8 | 84 | 98 | 100 |
| 16Y1029 | L | 8600 | 28 | 16.9 | 4.9 | 80 | 15 | 109 |
| M-104 | M | 8550 | 29 | 18.7 | 4.8 | 75 | 80 | 101 |
| M-205 | M | 8540 | 30 | 27.6 | 4.8 | 89 | 8 | 99 |
| 17P3344 | M | 8510 | 31 | 26.6 | 4.8 | 88 | 5 | 101 |
| 16Y3111 | M | 8460 | 32 | 30.6 | 4.8 | 89 | 30 | 111 |
| 17Y2087 | S | 8410 | 33 | 24.1 | 4.8 | 82 | 38 | 98 |
| 17Y3090 | M | 8370 | 34 | 25.3 | 4.9 | 86 | 80 | 112 |
| 17Y3114 | M | 8360 | 35 | 23.6 | 4.8 | 80 | 93 | 105 |
| 16Y3121 | M | 8320 | 36 | 28.4 | 4.8 | 88 | 0 | 98 |
| 16Y2117 | S | 8290 | 37 | 23.9 | 4.8 | 82 | 95 | 95 |
| 15Y2024 | S | 8210 | 38 | 20.8 | 4.8 | 85 | 90 | 99 |
| 15Y2153 | M | 8180 | 39 | 29.4 | 4.7 | 89 | 5 | 102 |
| 14M206G4 | M | 8130 | 40 | 23.9 | 4.8 | 81 | 83 | 103 |
| 16Y3108 | M | 7970 | 41 | 28.7 | 4.8 | 88 | 0 | 96 |
| A-202 | L | 7760 | 42 | 20.8 | 5.0 | 83 | 73 | 101 |
| CH-202 | S | 7060 | 43 | 20.1 | 4.8 | 82 | 98 | 94 |
| CH-201 | S | 6720 | 44 | 18.2 | 4.8 | 88 | 93 | 95 |
| CM-101 | S | 6680 | 45 | 19.0 | 4.8 | 80 | 88 | 95 |
| 15Y1195 | L | 6120 | 46 | 21.4 | 4.8 | 89 | 3 | 83 |
| 16Y1064 | L | 6090 | 47 | 19.8 | 4.7 | 88 | 3 | 105 |
| CA-201 | S | 5970 | 48 | 18.6 | 4.8 | 84 | 88 | 100 |
| MEAN | | 8440 | | 23.3 | 4.8 | 84 | 48 | 101 |
| CV | | 3.7 | | 6.3 | 1.1 | 1.6 | 24.6 | 4.2 |
| LSD (.05) | | 633 | | 3.0 | 0.1 | 2.7 | 24.0 | 8.7 |

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

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

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

Table 10. 2018 Colusa Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| L-207 | L | 10000 | 1 | 16.2 | 4.8 | 85 | 16 | 112 |
| 10Y2043 | S | 9600 | 2 | 17.1 | 4.8 | 81 | 86 | 97 |
| 12Y2175 | M | 9570 | 3 | 19.5 | 4.8 | 90 | 14 | 105 |
| CJ-201 | L | 9370 | 4 | 15.8 | 4.8 | 94 | 26 | 106 |
| 14Y1006 | L | 9310 | 5 | 16.3 | 4.9 | 81 | 44 | 92 |
| M-209 | M | 9120 | 6 | 21.5 | 4.8 | 89 | 30 | 101 |
| M-210 | M | 8980 | 7 | 19.9 | 4.9 | 84 | 20 | 98 |
| M-206 | M | 8960 | 8 | 20.8 | 4.8 | 84 | 24 | 104 |
| L-206 | L | 8940 | 9 | 16.0 | 4.7 | 84 | 53 | 103 |
| M-105 | M | 8470 | 10 | 20.9 | 4.8 | 82 | 55 | 105 |
| 17Y3000 | M | 8190 | 11 | 20.4 | 4.8 | 86 | 54 | 102 |
| S-102 | S | 8010 | 12 | 17.6 | 4.9 | 81 | 63 | 99 |
| MEAN | | 9040 | | 18.5 | 4.8 | 85 | 40 | 102 |
| CV | | 6.9 | | 4.5 | 1.5 | 1.6 | 72.3 | 4.8 |
| LSD (.05) | | 902 | | 1.2 | 0.1 | 2.0 | 41.9 | 7.1 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|------|
| 17Y3047 | M | 10090 | 1 | 18.1 | 4.8 | 87 | 23 | 93 |
| 16Y1154 | L | 10050 | 2 | 15.1 | 4.8 | 84 | 30 | 116 |
| 17Y1027 | L | 10030 | 3 | 16.8 | 4.9 | 83 | 20 | 101 |
| 17Y1083 | L | 9810 | 4 | 18.2 | 4.9 | 90 | 8 | 92 |
| 16Y1029 | L | 9630 | 5 | 14.7 | 4.9 | 85 | 0 | 114 |
| 15Y2100 | S | 9550 | 6 | 19.1 | 4.8 | 90 | 90 | 100 |
| 16Y3112 | M | 9430 | 7 | 21.0 | 4.8 | 90 | 18 | 106 |
| 15Y2135 | S | 9420 | 8 | 22.9 | 4.9 | 89 | 13 | 106 |
| 16Y3111 | M | 9410 | 9 | 22.6 | 4.8 | 90 | 5 | 107 |
| A-202 | L | 9360 | 10 | 16.0 | 4.9 | 85 | 8 | 106 |
| 17Y3023 | M | 9310 | 11 | 19.9 | 4.9 | 84 | 38 | 103 |
| 17Y3131 | M | 9300 | 12 | 19.5 | 4.9 | 89 | 18 | 102 |
| 17Y3081 | M | 9300 | 13 | 18.6 | 4.8 | 88 | 8 | 99 |
| 17P3344 | M | 9290 | 14 | 19.6 | 4.9 | 90 | 3 | 97 |
| 17P3020 | M | 9270 | 15 | 16.4 | 4.9 | 82 | 45 | 94 |
| 17P2215 | S | 9270 | 16 | 22.5 | 4.9 | 86 | 55 | 96 |
| 17P2217 | S | 9220 | 17 | 19.5 | 4.9 | 83 | 23 | 105 |
| CM-203 | S | 9210 | 18 | 23.5 | 4.8 | 83 | 80 | 102 |
| 15Y3086 | M | 9210 | 19 | 17.3 | 4.8 | 86 | 5 | 98 |
| 16P3288 | M | 9210 | 20 | 20.4 | 4.9 | 89 | 10 | 100 |
| 17Y3129 | M | 9200 | 21 | 21.7 | 4.9 | 89 | 68 | 108 |
| 16Y3121 | M | 9130 | 22 | 20.6 | 4.8 | 91 | 5 | 100 |
| 17Y3087 | M | 9130 | 23 | 20.4 | 4.9 | 90 | 8 | 105 |
| 17Y3045 | M | 9100 | 24 | 19.6 | 4.9 | 90 | 15 | 102 |
| 16Y3108 | M | 9100 | 25 | 21.4 | 4.9 | 92 | 5 | 99 |
| 16Y127 | L | 9050 | 26 | 16.1 | 4.8 | 88 | 93 | 107 |
| 17P3389 | M | 9050 | 27 | 21.7 | 4.8 | 91 | 8 | 101 |
| 17Y2048 | S | 9040 | 28 | 20.7 | 4.7 | 82 | 60 | 98 |
| 17Y3090 | M | 9030 | 29 | 17.7 | 4.8 | 90 | 13 | 110 |
| 15Y3171 | M | 8940 | 30 | 19.4 | 4.9 | 91 | 45 | 92 |
| 17Y3114 | M | 8890 | 31 | 20.4 | 4.9 | 84 | 18 | 105 |
| 15Y2153 | M | 8790 | 32 | 24.0 | 4.8 | 91 | 13 | 103 |
| 17Y3086 | M | 8740 | 33 | 20.4 | 4.8 | 88 | 20 | 106 |
| 15Y2112 | S | 8660 | 34 | 24.3 | 4.7 | 88 | 95 | 103 |
| 17Y2087 | S | 8620 | 35 | 19.5 | 4.8 | 83 | 38 | 94 |
| M-205 | M | 8540 | 36 | 21.6 | 4.7 | 93 | 5 | 99 |
| 15Y2024 | S | 8470 | 37 | 19.3 | 4.8 | 88 | 80 | 94 |
| 16Y3054 | M | 8370 | 38 | 20.0 | 4.8 | 88 | 73 | 99 |
| 17Y2138 | S | 8360 | 39 | 19.9 | 4.9 | 86 | 45 | 109 |
| 14M206G4 | M | 8200 | 40 | 20.4 | 4.9 | 86 | 25 | 98 |
| 16Y2117 | S | 8030 | 41 | 19.0 | 4.8 | 83 | 68 | 102 |
| M-104 | M | 7810 | 42 | 16.0 | 4.8 | 79 | 60 | 88 |
| CH-202 | S | 7640 | 43 | 17.6 | 4.9 | 83 | 90 | 91 |
| CH-201 | S | 7290 | 44 | 16.9 | 4.8 | 88 | 45 | 90 |
| 16Y1064 | L | 7210 | 45 | 13.8 | 4.8 | 94 | 3 | 112 |
| CA-201 | S | 7190 | 46 | 18.4 | 4.9 | 87 | 38 | 106 |
| CM-101 | S | 7100 | 47 | 17.8 | 4.9 | 85 | 55 | 91 |
| 15Y1195 | L | 6600 | 48 | 15.4 | 4.9 | 94 | 0 | 96 |
| MEAN | | 8850 | | 19.3 | 4.8 | 87 | 33 | 101 |
| CV | | 4.3 | | 4.2 | 1.4 | 1.6 | 33.2 | 5.0 |
| LSD (.05) | | 771 | | 1.6 | 0.1 | 2.8 | 22.0 | 10.2 |

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

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

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

Table 11. 2018 Yuba Early Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 10Y2043 | S | 10630 | 1 | 18.2 | 4.8 | 88 | 96 | 104 |
| 14Y1006 | L | 9890 | 2 | 15.8 | 4.8 | 83 | 16 | 106 |
| 17Y3000 | M | 9470 | 3 | 17.7 | 4.8 | 84 | 85 | 100 |
| M-105 | M | 9450 | 4 | 17.3 | 4.7 | 82 | 83 | 100 |
| M-206 | M | 9350 | 5 | 16.6 | 4.8 | 83 | 84 | 106 |
| L-207 | L | 9340 | 6 | 14.6 | 4.8 | 88 | 6 | 112 |
| 12Y2175 | M | 9140 | 7 | 18.0 | 4.8 | 90 | 41 | 105 |
| M-210 | M | 9120 | 8 | 17.0 | 4.8 | 83 | 76 | 105 |
| L-206 | L | 8930 | 9 | 16.4 | 4.8 | 83 | 93 | 98 |
| M-209 | M | 8400 | 10 | 17.9 | 4.8 | 91 | 53 | 101 |
| CJ-201 | L | 8360 | 11 | 14.8 | 4.8 | 94 | 11 | 95 |
| S-102 | S | 8170 | 12 | 15.0 | 4.8 | 79 | 88 | 102 |
| MEAN | | 9190 | | 16.6 | 4.8 | 86 | 61 | 103 |
| CV | | 4.6 | | 8.6 | 1.2 | 2.9 | 27.9 | 2.1 |
| LSD (.05) | | 608 | | 2.1 | 0.1 | 3.6 | 24.5 | 3.1 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|-----|
| 17Y2048 | S | 10520 | 1 | 16.2 | 4.8 | 85 | 83 | 97 |
| 17P3020 | M | 9670 | 2 | 14.0 | 4.8 | 84 | 63 | 100 |
| 17P2217 | S | 9650 | 3 | 14.5 | 4.8 | 88 | 75 | 103 |
| 17Y1027 | L | 9280 | 4 | 13.9 | 4.8 | 87 | 10 | 106 |
| 17Y3131 | M | 9170 | 5 | 14.4 | 4.8 | 89 | 43 | 97 |
| 17Y3114 | M | 9170 | 6 | 15.8 | 4.8 | 86 | 95 | 101 |
| CM-203 | S | 9050 | 7 | 16.4 | 4.9 | 85 | 88 | 106 |
| 15Y2100 | S | 8920 | 8 | 13.5 | 4.8 | 90 | 90 | 104 |
| 16Y3112 | M | 8840 | 9 | 14.0 | 4.8 | 90 | 75 | 97 |
| 14M206G4 | M | 8810 | 10 | 15.1 | 4.8 | 86 | 95 | 100 |
| 16Y2117 | S | 8810 | 11 | 17.6 | 4.9 | 89 | 95 | 99 |
| 17Y3081 | M | 8780 | 12 | 15.4 | 4.8 | 89 | 70 | 107 |
| M-104 | M | 8720 | 13 | 15.6 | 4.8 | 78 | 93 | 101 |
| 17Y3086 | M | 8590 | 14 | 14.2 | 4.8 | 90 | 43 | 98 |
| 15Y2135 | S | 8520 | 15 | 16.4 | 4.7 | 90 | 55 | 102 |
| 16Y1154 | L | 8490 | 16 | 13.7 | 4.8 | 92 | 0 | 106 |
| 15Y3086 | M | 8420 | 17 | 13.2 | 4.8 | 86 | 95 | 94 |
| 17Y2138 | S | 8340 | 18 | 13.6 | 4.8 | 91 | 80 | 99 |
| 16P3288 | M | 8340 | 19 | 15.1 | 4.8 | 93 | 68 | 99 |
| 16Y1029 | L | 8320 | 20 | 14.0 | 4.8 | 85 | 10 | 97 |
| 16Y127 | L | 8290 | 21 | 13.9 | 4.8 | 91 | 3 | 105 |
| 17Y3090 | M | 8280 | 22 | 15.3 | 4.8 | 91 | 35 | 102 |
| A-202 | L | 8280 | 23 | 14.5 | 4.8 | 88 | 10 | 97 |
| 17Y2087 | S | 8250 | 24 | 16.2 | 4.9 | 88 | 65 | 98 |
| 15Y2024 | S | 8110 | 25 | 15.5 | 4.8 | 91 | 95 | 104 |
| 17Y3087 | M | 8100 | 26 | 14.4 | 4.8 | 94 | 23 | 101 |
| 15Y2153 | M | 8050 | 27 | 15.1 | 4.7 | 92 | 15 | 95 |
| 16Y3054 | M | 8030 | 28 | 14.5 | 4.9 | 88 | 90 | 101 |
| 16Y3111 | M | 8000 | 29 | 16.0 | 4.8 | 93 | 10 | 98 |
| 17Y3129 | M | 7830 | 30 | 14.8 | 4.8 | 91 | 10 | 100 |
| 17P3389 | M | 7810 | 31 | 14.9 | 4.8 | 95 | 5 | 103 |
| 17Y3047 | M | 7800 | 32 | 15.2 | 4.9 | 88 | 70 | 103 |
| 15Y2112 | S | 7740 | 33 | 20.5 | 4.8 | 88 | 93 | 97 |
| CM-101 | S | 7740 | 34 | 14.7 | 4.8 | 85 | 95 | 94 |
| CH-202 | S | 7630 | 35 | 14.4 | 4.8 | 87 | 98 | 99 |
| 16Y3121 | M | 7510 | 36 | 13.6 | 4.8 | 96 | 8 | 99 |
| 17P2215 | S | 7500 | 37 | 16.9 | 4.8 | 87 | 5 | 101 |
| 17Y3045 | M | 7390 | 38 | 15.1 | 4.9 | 89 | 8 | 106 |
| 17Y3023 | M | 7240 | 39 | 13.7 | 4.8 | 85 | 83 | 106 |
| 16Y1064 | L | 7130 | 40 | 14.0 | 4.9 | 93 | 0 | 94 |
| 17Y1083 | L | 7100 | 41 | 16.6 | 4.8 | 94 | 3 | 88 |
| 16Y3108 | M | 7090 | 42 | 15.9 | 4.8 | 94 | 0 | 95 |
| M-205 | M | 7090 | 43 | 15.1 | 4.8 | 98 | 8 | 95 |
| CA-201 | S | 7070 | 44 | 14.4 | 4.9 | 87 | 95 | 101 |
| 15Y3171 | M | 6780 | 45 | 14.7 | 4.8 | 96 | 8 | 103 |
| 17P3344 | M | 6560 | 46 | 14.0 | 4.8 | 92 | 5 | 96 |
| CH-201 | S | 6210 | 47 | 14.6 | 4.9 | 94 | 93 | 101 |
| 15Y1195 | L | 4690 | 48 | 16.3 | 4.8 | 96 | 5 | 102 |
| MEAN | | 8080 | | 15.0 | 4.8 | 89 | 49 | 100 |
| CV | | 8.4 | | 8.3 | 1.3 | 1.8 | 24.5 | 1.6 |
| LSD (.05) | | 1362 | | 2.5 | 0.1 | 3.2 | 24.2 | 3.3 |

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

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

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

Table 12. Grain Yield (lb/acre @14% moisture) Summary of Early Rice Varieties by Location and Year (2014-2018)

| Location | Year | Calhikari | | | | | | |
|----------------|------|-----------|-------|-------|-------|-------|-------|-------|
| | | 201 | S102 | M105 | M205 | M206 | M209 | L207 |
| Biggs (RES) | 2014 | 6220 | 7320 | 8570 | 9140 | 9240 | 9670 | |
| | 2015 | 8580 | 10050 | 8610 | 8720 | 9620 | 9490 | 10550 |
| | 2016 | 7310 | 9020 | 10380 | 10690 | 10780 | 10950 | 11220 |
| | 2017 | 9210 | 10460 | 10300 | 10640 | 9770 | 10490 | 11070 |
| | 2018 | 8510 | 8220 | 9360 | 9280 | 9050 | 10640 | 10120 |
| Location Mean | | 7966 | 9014 | 9444 | 9694 | 9692 | 10248 | 10740 |
| Butte | 2014 | 8310 | 8570 | 9070 | 9140 | 9610 | 9140 | |
| | 2015 | 7180 | 8810 | 9350 | 7780 | 9370 | 8580 | 9130 |
| | 2016 | 8080 | 9480 | 10060 | 9640 | 10400 | 10220 | 10960 |
| | 2017 | 7810 | 8180 | 8910 | 9670 | 9330 | 9350 | 9750 |
| | 2018 | 6720 | 7980 | 8350 | 8540 | 8270 | 7990 | 9420 |
| Location Mean | | 7620 | 8604 | 9148 | 8954 | 9396 | 9056 | 9815 |
| Colusa | 2014 | 7740 | 8080 | 9100 | 9370 | 9280 | 9600 | |
| | 2015 | 8940 | 9200 | 10500 | 10050 | 9850 | 10490 | 11160 |
| | 2016 | 8590 | 9050 | 10390 | 9730 | 9960 | 9600 | 10600 |
| | 2017 | 7610 | 6920 | 7390 | 8040 | 7530 | 7850 | 9410 |
| | 2018 | 7290 | 8010 | 8470 | 8540 | 8960 | 9120 | 10000 |
| Location Mean | | 8034 | 8252 | 9170 | 9146 | 9116 | 9332 | 10293 |
| Yuba | 2014 | 7290 | 7420 | 8590 | 9120 | 8950 | 8800 | |
| | 2015 | 8490 | 8740 | 9970 | 9650 | 9940 | 10240 | 10480 |
| | 2016 | 7310 | 8300 | 9110 | 8430 | 9090 | 8760 | 8470 |
| | 2017 | 6380 | 8170 | 8370 | 8020 | 8770 | 9060 | 9600 |
| | 2018 | 6210 | 8170 | 9450 | 7090 | 9350 | 8400 | 9340 |
| Location Mean | | 7136 | 8160 | 9098 | 8462 | 9220 | 9052 | 9473 |
| Loc/Years Mean | | 7689 | 8508 | 9215 | 9064 | 9356 | 9422 | 10080 |

Table 13. 2018 Three Location Intermediate/Late Rice Variety Trials

Advanced Lines and Varieties

| Single Location Yields | | | | | | | | | | | | | | |
|------------------------|---------------|--|-----------|-------|------|-------|------|-------|------|--|----------------------------|---------------------------|--------------------|-------------------------|
| | | Over All Ave Grain Yield at 14% Moisture lbs/ac | | Biggs | | Butte | | Glenn | | | | | | |
| Variety | Grain Type | Yield | Rank | Yield | Rank | Yield | Rank | Yield | Rank | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| 12Y2175 | M | 10960 | 1 | 11420 | 1 | 10960 | 1 | 10510 | 3 | 17.5 | 4.8 | 86 | 38 | 105 |
| L-207 | L | 10440 | 2 | 10590 | 4 | 10400 | 3 | 10340 | 4 | 15.0 | 4.8 | 83 | 35 | 113 |
| 10Y2043 | S | 10430 | 3 | 10070 | 5 | 10760 | 2 | 10540 | 2 | 15.9 | 4.8 | 80 | 77 | 98 |
| 14Y1006 | L | 10430 | 4 | 10630 | 3 | 9970 | 7 | 10680 | 1 | 15.3 | 4.9 | 79 | 34 | 100 |
| CJ-201 | L | 10110 | 5 | 10900 | 2 | 9550 | 10 | 9740 | 6 | 14.4 | 4.9 | 85 | 36 | 98 |
| M-209 | M | 9790 | 6 | 9760 | 6 | 9580 | 9 | 9990 | 5 | 18.1 | 4.8 | 86 | 30 | 101 |
| M-206 | M | 9720 | 7 | 9730 | 7 | 10270 | 5 | 9300 | 9 | 17.1 | 4.8 | 81 | 50 | 105 |
| 17Y3000 | M | 9700 | 8 | 9600 | 8 | 10330 | 4 | 9330 | 8 | 17.5 | 4.8 | 81 | 48 | 103 |
| M-105 | M | 9590 | 9 | 9350 | 11 | 9990 | 6 | 9520 | 7 | 17.2 | 4.8 | 79 | 55 | 102 |
| M-210 | M | 9540 | 10 | 9480 | 10 | 9960 | 8 | 9160 | 11 | 16.5 | 4.9 | 81 | 44 | 102 |
| L-206 | L | 9440 | 11 | 9540 | 9 | 9530 | 11 | 9260 | 10 | 14.7 | 4.8 | 79 | 63 | 99 |
| S-102 | S | 8690 | 12 | 8500 | 12 | 9060 | 12 | 8520 | 12 | 14.2 | 4.8 | 78 | 50 | 102 |
| MEAN | | 9900 | | 9970 | | 10030 | | 9740 | | 16.1 | 4.8 | 82 | 47 | 102 |
| CV | | 6.4 | | 7.8 | | 6.0 | | 5.1 | | 4.4 | 1.2 | 1.2 | 29.8 | 9.4 |
| LSD (.05) | | 667 | | 1123 | | 868 | | 715 | | 2.4 | 0.1 | 2.1 | 32.6 | 5.2 |

Preliminary Lines and Varieties

| | | | | | | | | | | | | | | |
|-----------|---|--------------|-----------|-------|----|-------|----|-------|----|------|-----|-----|------|------|
| 17Y3158 | M | 10830 | 1 | 11460 | 1 | 10870 | 1 | 10180 | 3 | 17.5 | 4.9 | 85 | 35 | 107 |
| 16P3279 | M | 10120 | 2 | 10420 | 6 | 10040 | 4 | 9900 | 9 | 17.8 | 4.9 | 86 | 38 | 107 |
| 17Y2142 | S | 10100 | 3 | 10090 | 8 | 9620 | 11 | 10600 | 1 | 17.5 | 4.9 | 85 | 34 | 114 |
| CM-203 | S | 10010 | 4 | 9620 | 15 | 10350 | 2 | 10050 | 6 | 16.6 | 4.9 | 80 | 72 | 103 |
| 17Y2039 | M | 9960 | 5 | 10480 | 5 | 9460 | 12 | 9920 | 8 | 18.1 | 4.8 | 89 | 22 | 104 |
| 15Y2100 | S | 9940 | 6 | 10280 | 7 | 9200 | 17 | 10340 | 2 | 15.7 | 4.8 | 86 | 39 | 106 |
| 15Y3171 | M | 9920 | 7 | 11090 | 2 | 9440 | 14 | 9220 | 19 | 17.5 | 4.8 | 87 | 44 | 99 |
| 17Y2046 | S | 9920 | 8 | 9900 | 10 | 9820 | 6 | 10020 | 7 | 15.1 | 4.9 | 81 | 25 | 102 |
| 17P3398 | M | 9910 | 9 | 9770 | 13 | 9810 | 7 | 10160 | 5 | 17.8 | 4.9 | 88 | 35 | 105 |
| 17Y3085 | M | 9800 | 10 | 9720 | 14 | 9880 | 5 | 9810 | 11 | 18.6 | 4.8 | 87 | 43 | 106 |
| 15Y2153 | M | 9730 | 11 | 10610 | 4 | 9070 | 18 | 9510 | 14 | 18.9 | 4.7 | 87 | 23 | 102 |
| 17P3355 | M | 9700 | 12 | 11060 | 3 | 8720 | 22 | 9310 | 18 | 18.0 | 4.8 | 87 | 37 | 104 |
| 15Y2151 | M | 9650 | 13 | 9830 | 11 | 9700 | 10 | 9420 | 15 | 17.2 | 4.8 | 86 | 34 | 109 |
| 17Y2069 | S | 9640 | 14 | 9550 | 16 | 9210 | 15 | 10170 | 4 | 16.5 | 4.9 | 79 | 33 | 103 |
| M-205 | M | 9520 | 15 | 9530 | 17 | 9200 | 16 | 9840 | 10 | 17.0 | 4.8 | 88 | 25 | 103 |
| 15Y2024 | S | 9400 | 16 | 8880 | 20 | 9700 | 9 | 9640 | 12 | 15.0 | 4.8 | 84 | 52 | 100 |
| 15Y2112 | S | 9380 | 17 | 9820 | 12 | 9000 | 19 | 9310 | 17 | 19.3 | 4.9 | 85 | 83 | 103 |
| 17Y3127 | M | 9370 | 18 | 9160 | 19 | 10180 | 3 | 8770 | 22 | 16.8 | 4.8 | 82 | 48 | 107 |
| 16Y127 | L | 9350 | 19 | 9950 | 9 | 8540 | 23 | 9570 | 13 | 15.3 | 4.8 | 84 | 38 | 107 |
| 17Y1070 | L | 9320 | 20 | 8730 | 21 | 9810 | 8 | 9400 | 16 | 14.5 | 4.8 | 82 | 35 | 111 |
| A-202 | L | 8980 | 21 | 9320 | 18 | 8840 | 20 | 8790 | 21 | 15.7 | 4.9 | 81 | 44 | 107 |
| CH-202 | S | 8780 | 22 | 8490 | 22 | 8820 | 21 | 9050 | 20 | 15.8 | 4.9 | 81 | 72 | 96 |
| CH-201 | S | 8540 | 23 | 7580 | 23 | 9450 | 13 | 8610 | 23 | 14.4 | 4.9 | 84 | 62 | 96 |
| CA-201 | S | 7440 | 24 | 6500 | 24 | 7930 | 24 | 7890 | 24 | 15.1 | 4.9 | 82 | 54 | 100 |
| MEAN | | 9560 | | 9660 | | 9440 | | 9560 | | 16.7 | 4.8 | 84 | 43 | 104 |
| CV | | 6.3 | | 4.6 | | 8.5 | | 5.2 | | 7.3 | 1.2 | 1.1 | 29.4 | 11.2 |
| LSD (.05) | | 987 | | 922 | | 1666 | | 1034 | | 2.8 | 0.1 | 2.6 | 25.6 | 5.3 |

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

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

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

Table 14. 2018 Biggs Intermediate-Late Rice Variety Trials

| <i>Advanced Lines and Varieties</i> | | | | | | | | |
|---|---------------|-------|------|--|----------------------------|---------------------------|--------------------|-------------------------|
| Grain Yield at 14% Moisture lbs/ac | | | | | | | | |
| Variety | Grain Type | Yield | Rank | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
| 12Y2175 | M | 11420 | 1 | 19.2 | 4.8 | 82 | 1 | 105 |
| CJ-201 | L | 10900 | 2 | 14.5 | 4.8 | 80 | 1 | 96 |
| 14Y1006 | L | 10630 | 3 | 14.6 | 5.0 | 74 | 0 | 100 |
| L-207 | L | 10590 | 4 | 14.2 | 4.8 | 77 | 0 | 110 |
| 10Y2043 | S | 10070 | 5 | 13.6 | 4.9 | 73 | 35 | 91 |
| M-209 | M | 9760 | 6 | 19.7 | 4.8 | 80 | 0 | 97 |
| M-206 | M | 9730 | 7 | 18.5 | 4.9 | 76 | 30 | 100 |
| 17Y3000 | M | 9600 | 8 | 18.7 | 4.9 | 75 | 31 | 100 |
| L-206 | L | 9540 | 9 | 14.2 | 4.8 | 73 | 1 | 92 |
| M-210 | M | 9480 | 10 | 18.2 | 4.9 | 75 | 15 | 96 |
| M-105 | M | 9350 | 11 | 17.5 | 4.9 | 73 | 3 | 96 |
| S-102 | S | 8500 | 12 | 11.3 | 5.0 | 71 | 5 | 94 |
| MEAN | | 9970 | | 16.2 | 4.9 | 76 | 10 | 98 |
| CV | | 7.8 | | 4.7 | 1.0 | 1.3 | 134.6 | 4.2 |
| LSD (.05) | | 1123 | | 1.1 | 0.1 | 1.4 | 19.8 | 5.9 |
| <i>Preliminary Lines and Varieties</i> | | | | | | | | |
| 17Y3158 | M | 11460 | 1 | 19.3 | 4.9 | 80 | 0 | 103 |
| 15Y3171 | M | 11090 | 2 | 19.7 | 4.9 | 83 | 0 | 96 |
| 17P3355 | M | 11060 | 3 | 20.4 | 4.9 | 82 | 0 | 102 |
| 15Y2153 | M | 10610 | 4 | 21.6 | 4.8 | 84 | 0 | 100 |
| 17Y2039 | M | 10480 | 5 | 19.8 | 4.9 | 85 | 0 | 95 |
| 16P3279 | M | 10420 | 6 | 20.5 | 5.0 | 82 | 2 | 101 |
| 15Y2100 | S | 10280 | 7 | 14.2 | 5.0 | 80 | 0 | 96 |
| 17Y2142 | S | 10090 | 8 | 15.6 | 5.0 | 78 | 0 | 107 |
| 16Y127 | L | 9950 | 9 | 15.7 | 4.9 | 77 | 8 | 101 |
| 17Y2046 | S | 9900 | 10 | 12.7 | 5.0 | 75 | 3 | 97 |
| 15Y2151 | M | 9830 | 11 | 18.5 | 4.9 | 82 | 3 | 106 |
| 15Y2112 | S | 9820 | 12 | 20.6 | 4.9 | 80 | 50 | 96 |
| 17P3398 | M | 9770 | 13 | 19.8 | 5.0 | 85 | 0 | 96 |
| 17Y3085 | M | 9720 | 14 | 21.1 | 4.9 | 82 | 0 | 104 |
| CM-203 | S | 9620 | 15 | 15.7 | 5.0 | 73 | 70 | 95 |
| 17Y2069 | S | 9550 | 16 | 14.4 | 5.0 | 73 | 0 | 98 |
| M-205 | M | 9530 | 17 | 19.0 | 4.8 | 84 | 0 | 97 |
| A-202 | L | 9320 | 18 | 15.1 | 5.0 | 75 | 0 | 101 |
| 17Y3127 | M | 9160 | 19 | 17.8 | 4.9 | 77 | 10 | 96 |
| 15Y2024 | S | 8880 | 20 | 14.3 | 4.9 | 78 | 3 | 94 |
| 17Y1070 | L | 8730 | 21 | 14.4 | 4.9 | 76 | 5 | 105 |
| CH-202 | S | 8490 | 22 | 14.4 | 5.0 | 75 | 30 | 92 |
| CH-201 | S | 7580 | 23 | 13.2 | 5.0 | 75 | 20 | 92 |
| CA-201 | S | 6500 | 24 | 14.0 | 5.0 | 77 | 20 | 90 |
| MEAN | | 9660 | | 17.2 | 4.9 | 79 | 9 | 98 |
| CV | | 4.6 | | 5.8 | 1.2 | 0.8 | 58.8 | 4.9 |
| LSD (.05) | | 922 | | 2.0 | 0.1 | 1.3 | 11.3 | 9.9 |

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

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

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

Table 15. 2018 Butte Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|--|------|--|----------------------------|---------------------------|--------------------|-------------------------|
| | | Yield | Rank | | | | | |
| 12Y2175 | M | 10960 | 1 | 15.6 | 4.7 | 88 | 96 | 102 |
| 10Y2043 | S | 10760 | 2 | 16.2 | 4.8 | 83 | 100 | 96 |
| L-207 | L | 10400 | 3 | 15.2 | 4.9 | 84 | 94 | 112 |
| 17Y3000 | M | 10330 | 4 | 16.9 | 4.8 | 84 | 99 | 98 |
| M-206 | M | 10270 | 5 | 15.9 | 4.8 | 84 | 96 | 104 |
| M-105 | M | 9990 | 6 | 15.3 | 4.8 | 83 | 94 | 97 |
| 14Y1006 | L | 9970 | 7 | 15.5 | 4.8 | 83 | 99 | 97 |
| M-210 | M | 9960 | 8 | 15.3 | 4.9 | 84 | 99 | 100 |
| M-209 | M | 9580 | 9 | 15.7 | 4.8 | 87 | 74 | 99 |
| CJ-201 | L | 9550 | 10 | 14.7 | 4.9 | 87 | 98 | 95 |
| L-206 | L | 9530 | 11 | 14.4 | 4.8 | 83 | 99 | 102 |
| S-102 | S | 9060 | 12 | 15.4 | 4.8 | 83 | 100 | 102 |
| MEAN | | 10030 | | 15.5 | 4.8 | 84 | 96 | 100 |
| CV | | 6.0 | | 5.5 | 1.4 | 1.3 | 7.1 | 3.2 |
| LSD (.05) | | 868 | | 1.2 | 0.1 | 1.6 | 9.7 | 4.6 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|------|
| 17Y3158 | M | 10870 | 1 | 15.2 | 4.9 | 86 | 95 | 104 |
| CM-203 | S | 10350 | 2 | 17.4 | 4.8 | 85 | 100 | 104 |
| 17Y3127 | M | 10180 | 3 | 14.8 | 4.9 | 84 | 100 | 111 |
| 16P3279 | M | 10040 | 4 | 14.5 | 4.9 | 88 | 100 | 107 |
| 17Y3085 | M | 9880 | 5 | 16.2 | 4.8 | 87 | 98 | 104 |
| 17Y2046 | S | 9820 | 6 | 16.6 | 4.9 | 84 | 68 | 99 |
| 17P3398 | M | 9810 | 7 | 15.6 | 4.9 | 89 | 88 | 102 |
| 17Y1070 | L | 9810 | 8 | 15.1 | 4.9 | 85 | 98 | 110 |
| 15Y2024 | S | 9700 | 9 | 14.3 | 4.7 | 86 | 90 | 100 |
| 15Y2151 | M | 9700 | 10 | 15.8 | 4.8 | 88 | 98 | 108 |
| 17Y2142 | S | 9620 | 11 | 17.5 | 4.8 | 88 | 95 | 114 |
| 17Y2039 | M | 9460 | 12 | 16.9 | 4.8 | 91 | 60 | 110 |
| CH-201 | S | 9450 | 13 | 15.0 | 4.8 | 90 | 100 | 96 |
| 15Y3171 | M | 9440 | 14 | 15.6 | 4.8 | 87 | 90 | 94 |
| 17Y2069 | S | 9210 | 15 | 17.3 | 4.9 | 82 | 88 | 98 |
| M-205 | M | 9200 | 16 | 14.6 | 4.8 | 89 | 73 | 107 |
| 15Y2100 | S | 9200 | 17 | 16.6 | 4.6 | 88 | 95 | 111 |
| 15Y2153 | M | 9070 | 18 | 15.6 | 4.7 | 87 | 60 | 101 |
| 15Y2112 | S | 9000 | 19 | 15.8 | 4.9 | 88 | 100 | 105 |
| A-202 | L | 8840 | 20 | 15.3 | 4.9 | 85 | 83 | 104 |
| CH-202 | S | 8820 | 21 | 16.0 | 4.8 | 86 | 98 | 96 |
| 17P3355 | M | 8720 | 22 | 14.8 | 4.8 | 89 | 95 | 104 |
| 16Y127 | L | 8540 | 23 | 14.4 | 4.9 | 87 | 100 | 109 |
| CA-201 | S | 7930 | 24 | 16.1 | 4.8 | 84 | 95 | 103 |
| MEAN | | 9440 | | 15.7 | 4.8 | 87 | 90 | 104 |
| CV | | 8.5 | | 8.8 | 1.1 | 1.1 | 13.1 | 5.3 |
| LSD (.05) | | 1666 | | 2.9 | 0.1 | 1.9 | 24.4 | 11.3 |

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

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

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

Table 16. 2018 Glenn Intermediate-Late Rice Variety Trials

Advanced Lines and Varieties

| Variety | Grain Type | Grain Yield at 14% Moisture lbs/ac | | Grain Moisture at Harvest (%) | Seedling Vigor (1-5) | Days to 50% Heading | Lodging (0-100) | Plant Height (cm) |
|-----------|------------|------------------------------------|------|-------------------------------|----------------------|---------------------|-----------------|-------------------|
| | | Yield | Rank | | | | | |
| 14Y1006 | L | 10680 | 1 | 15.8 | 4.8 | 82 | 4 | 104 |
| 10Y2043 | S | 10540 | 2 | 17.8 | 4.8 | 85 | 95 | 106 |
| 12Y2175 | M | 10510 | 3 | 17.8 | 4.8 | 90 | 15 | 107 |
| L-207 | L | 10340 | 4 | 15.7 | 4.7 | 89 | 13 | 118 |
| M-209 | M | 9990 | 5 | 17.9 | 4.8 | 90 | 16 | 107 |
| CJ-201 | L | 9740 | 6 | 14.7 | 4.9 | 90 | 9 | 103 |
| M-105 | M | 9520 | 7 | 18.1 | 4.8 | 82 | 68 | 114 |
| 17Y3000 | M | 9330 | 8 | 17.2 | 4.7 | 84 | 14 | 112 |
| M-206 | M | 9300 | 9 | 16.7 | 4.8 | 83 | 25 | 112 |
| L-206 | L | 9260 | 10 | 15.5 | 4.8 | 81 | 90 | 104 |
| M-210 | M | 9160 | 11 | 16.1 | 4.8 | 83 | 18 | 109 |
| S-102 | S | 8520 | 12 | 15.8 | 4.8 | 81 | 46 | 111 |
| MEAN | | 9740 | | 16.6 | 4.8 | 85 | 34 | 109 |
| CV | | 5.1 | | 4.3 | 0.9 | 1.2 | 54.2 | 3.6 |
| LSD (.05) | | 715 | | 1.0 | 0.1 | 1.5 | 26.7 | 5.6 |

Preliminary Lines and Varieties

| | | | | | | | | |
|-----------|---|-------|----|------|-----|-----|------|-----|
| 17Y2142 | S | 10600 | 1 | 19.5 | 4.8 | 90 | 8 | 123 |
| 15Y2100 | S | 10340 | 2 | 16.1 | 4.7 | 89 | 23 | 111 |
| 17Y3158 | M | 10180 | 3 | 18.0 | 4.9 | 89 | 10 | 116 |
| 17Y2069 | S | 10170 | 4 | 17.8 | 4.8 | 83 | 13 | 113 |
| 17P3398 | M | 10160 | 5 | 17.9 | 4.8 | 91 | 18 | 118 |
| CM-203 | S | 10050 | 6 | 16.7 | 4.8 | 82 | 45 | 112 |
| 17Y2046 | S | 10020 | 7 | 15.9 | 4.8 | 83 | 5 | 110 |
| 17Y2039 | M | 9920 | 8 | 17.7 | 4.8 | 91 | 5 | 109 |
| 16P3279 | M | 9900 | 9 | 18.3 | 4.9 | 90 | 13 | 114 |
| M-205 | M | 9840 | 10 | 17.4 | 4.8 | 91 | 3 | 106 |
| 17Y3085 | M | 9810 | 11 | 18.4 | 4.9 | 91 | 30 | 112 |
| 15Y2024 | S | 9640 | 12 | 16.4 | 4.8 | 89 | 63 | 108 |
| 16Y127 | L | 9570 | 13 | 15.7 | 4.8 | 89 | 5 | 110 |
| 15Y2153 | M | 9510 | 14 | 19.6 | 4.7 | 91 | 8 | 107 |
| 15Y2151 | M | 9420 | 15 | 17.3 | 4.7 | 89 | 3 | 113 |
| 17Y1070 | L | 9400 | 16 | 14.0 | 4.8 | 87 | 3 | 117 |
| 15Y2112 | S | 9310 | 17 | 21.6 | 4.8 | 88 | 98 | 109 |
| 17P3355 | M | 9310 | 18 | 18.8 | 4.8 | 90 | 15 | 107 |
| 15Y3171 | M | 9220 | 19 | 17.2 | 4.7 | 91 | 43 | 106 |
| CH-202 | S | 9050 | 20 | 17.1 | 4.8 | 83 | 88 | 100 |
| A-202 | L | 8790 | 21 | 16.6 | 4.8 | 84 | 50 | 117 |
| 17Y3127 | M | 8770 | 22 | 17.8 | 4.8 | 86 | 33 | 115 |
| CH-201 | S | 8610 | 23 | 15.0 | 4.9 | 88 | 65 | 102 |
| CA-201 | S | 7890 | 24 | 15.1 | 4.9 | 84 | 48 | 107 |
| MEAN | | 9560 | | 17.3 | 4.8 | 88 | 29 | 111 |
| CV | | 5.2 | | 7.4 | 1.2 | 1.3 | 60.7 | 3.0 |
| LSD (.05) | | 1034 | | 2.7 | 0.1 | 2.3 | 36 | 6.9 |

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

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

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

Table 17. Grain Yield (lb/acre @14% moisture) Summary of Intermediate/Late Rice Varieties by Location and Year (2014-2018)

| Location | Year | M205 | M402 | M209 | L206 |
|----------------|------|-------|-------|-------|-------|
| Biggs (RES) | 2014 | 10550 | 10040 | 11270 | 10340 |
| | 2015 | 9880 | 8450 | 9880 | 9520 |
| | 2016 | 9460 | 9370 | 9900 | 10490 |
| | 2017 | 10590 | 8880 | 10350 | 10520 |
| | 2018 | 9530 | | 9760 | 9540 |
| Location Mean | | 10002 | 9185 | 10232 | 10082 |
| Glenn | 2014 | 8910 | 8910 | 8610 | 8870 |
| | 2015 | 9420 | 8710 | 9700 | 9910 |
| | 2016 | 8490 | 9850 | 8520 | 9290 |
| | 2017 | 8500 | 7280 | 8200 | 7560 |
| | 2018 | 9840 | | 9990 | 9260 |
| Location Mean | | 9032 | 8688 | 9004 | 8978 |
| Butte | 2016 | 9110 | 6900 | 9010 | 9530 |
| | 2017 | 8550 | 6280 | 8480 | 8980 |
| | 2018 | 9200 | | 9580 | 9530 |
| Location Mean | | 8953 | 6590 | 9023 | 9347 |
| Loc/Years Mean | | 9329 | 8154 | 9420 | 9469 |