

2008 DRY BEAN YIELD TRIALS

J.D. Kelly, B. Long, N. Blakely, E. Wright, and J. Heilig

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Twenty-seven yield trials were conducted in 2008 in Saginaw, Montcalm, Kalamazoo and Gratiot counties in addition to 20 acres of early generation nurseries under development in 10 different market classes. At the Saginaw Valley Bean & Beet Research Farm, 15 yield trials were planted. These included the standard nurseries in small and medium-sized market classes, the Cooperative Dry Bean, and the Midwest Regional Performance Nurseries. All yield trials (over 3,800 plots) at Saginaw were direct harvested, except vine cranberry and bush tebo tests. The large-seeded kidney, cranberry and white mold trials at Montcalm were rod-pulled. These included 30-entry navy test; 36-entry standard black test; 20-entry navy and black prelim test; three GN tests with 30, 42, and 42 entries; three pinto tests with 42, 64, and 56 entries; three red/pink tests with 20, 36, and 56 entries; Otebo test with 3 lines with BCMV resistance and 9 small GN's; 42-entry coop and regional test that includes pinto, GN, red and pinks; 9-entry vine, and two bush cranberry tests with 30 and 36 entries; four kidney tests with 42, 64, 64, and 9 entries; two white mold tests one with 64-entries and one 96-entry pinto trial; two certified organic trials one 32-entry test at KBS and second 32-entry test in Gratiot county; two PLH observation trials one 32-entry test on campus and second 32-entry test at the Montcalm Research farm. All trials except for kidney, cranberry and white mold, organic, and PLH were direct harvested. Two certified organic trials one 32-entry test at the Kellogg Biological Station - KBS and second 32-entry test in Gratiot county were planted. All trials except kidney, cranberry, Otebo and the organic trials were direct harvested.

Plots in Saginaw had one of the most severe epidemics of common bacterial blight (CBB) in years due to high rainfall in June/July. As a result the program was able to identify high levels of resistance in black, navy, pinto, red and great northern market classes. With few exceptions the highest-yielding entries in all tests had the highest levels of CBB resistance. Yields averaged 22 cwt/acre and the best lines exceeded 31 cwt/acre, but yields were overall lower in the earlier season pinto, great northern, red and pink beans. Higher temperatures and lower rainfall limited the spread of white mold despite access to irrigation at Montcalm. Rainfall (June-September) averaged 10.42" at Montcalm with only 0.6" in June and under 2" during July and August with an excess of 7.00" in September. Overall trials at Montcalm were excellent in 2008 and yields were high, exceeding 41 cwt/acre in kidney tests and 53 cwt/acre in the white mold test, where the overall mean yield exceeded 39 cwt/acre. Two companion nurseries of 32-entries each were planted one in certified organic and one in conventional plots to compare genotypic response to the different management systems. Trials planted in certified grower's field in Gratiot county and at KBS suffered severe drought at the both sites in July that resulted in low yields and regrowth in some plots. Weeds were controlled by cultivation and insects (potato leaf hoppers) were controlled with multiple sprays of pyganic in the organic plots. The conventional plots received normal recommended rates of fertilizer, herbicides and insecticides, otherwise all other practices were similar between plots. The organic plots in Gratiot had received poultry manure in the fall prior to planting whereas any residual N in the organic plots at KBS would have come from forage legumes in the rotation. Every attempt was made to handle the plots in a similar fashion so that valid comparisons could be made between treatments.

The data for all tests are included in an attached section. Procedures and details on nursery establishment and harvest methods are outlined on the first page. Since the data collected on each test are basically the same, a brief discussion of each variable measured is presented below for clarification purposes.

1. Yield is clean seed weight reported in hundredweight per acre (cwt/acre) standardized to 18% moisture content. Dry beans are commercially marketed in units of 100 pounds (cwt).
2. Seed weight is a measure of seed size, determined by weighing in grams a pre-counted sample of 100 seeds, known as the 100-seed weight. To convert to seeds per 100g (10,000/100 seed wt); for example 100-seed weight of 50 converts to 200 seeds per 100 g (used in marketing).
3. Days to flower is the number of days from planting to when 50% of plants in a plot have one or more open flowers.
4. Days to maturity is the actual number of days from planting until date when all the plants in a plot have reached harvest maturity.
5. Lodging is scored from 1 to 5 where 1 is erect while 5 is prostrate or 100% lodged.
6. Height is determined at physiological maturity, from soil surface to the top of plant canopy, and is recorded in centimeters (cm).
7. Desirability score is a visual score given the plot at maturity that takes into consideration such plant traits as; moderate height, lodging resistance, good pod load, favorable pod to ground distance, uniformity of maturity, and absence of disease, if present in the nursery. The higher the score (from 1 to 9) the more desirable the variety, hence DS serves as a subjective selection index.

At the bottom of each table, the mean or average of all entries in a test is given to facilitate comparisons between varieties. In order to better interpret data, certain statistical factors are used. The LSD values refer to the Least Significant Difference between entries in a test at two levels of probability. The LSD value is the minimum difference by which two entries must differ before they can be considered significantly different. Two entries differing in yield by 1 cwt/acre cannot be considered as performing significantly different if the LSD value is greater than 1 cwt/ acre. Such a statement is actually a statement of "probable" difference. We could be wrong once in 20 times ($p=0.05$), on the average, or once in 100 times ($p=0.01$) depending on the level of probability. The other statistic, Coefficient of Variation (CV), indicates how good the test was in terms of controlling error variance due to soil or other differences within a location. Since it is impossible to control all variability, a CV value of 10% or less implies excellent error control and is reflected in lower LSD values. Under the pedigree column, all released or named varieties are **bolded** and always preceded by a comma (,); when preceded by a slash (/), the variety was used only as a parent to produce that particular breeding line.

Expt. 8101: Standard Navy Bean Yield Trial

This 30-entry trial included standard commercial navy bean varieties, and advanced lines from the MSU breeding program, which carry the N-prefix. Yields ranged from 6.5 to 25.8 cwt/acre with a mean of 17.2 cwt/acre. The trial was fairly uniform but variability was high (CV=15%) and the LSD needed for significance was 3.7 cwt/acre. Three entries significantly out-yielded the test mean and included N05319 which exhibited high levels of resistance to CBB. N05319 ranked 1st in 2006. N05324 which had ranked 1st and 2nd in last two years dropped to 21st in this test due to susceptibility to CBB. All check varieties T9905, Avalanche, Lightning, Vista, Seahawk and Mayflower ranked below the mean.

Expt. 8102: Standard Black Bean Yield Trial

This 36-entry trial included the standard commercial black bean varieties and advanced breeding lines. Yields ranged from 16 to 31 cwt/acre with a test mean of 22 cwt/acre. Variability was moderate in this test, (CV=11.5%) and the LSD was 3.6 cwt/acre. Six breeding lines significantly out-yielded the test mean and included only those lines with CBB resistance. Shania was highest yielding varieties followed by Domino, Zorro, Black Velvet, Condor and Jaguar. Since the trial was direct harvested, the data suggest that there exists significant yield potential in upright black beans adapted to the current conditions of mid-Michigan. Future advances will largely depend on canning quality of the entries.

Expt. 8103: Preliminary Black & Navy Bean Yield Trial

This 20-trial included new black and navy bean lines along with check varieties. Yields ranged from 17 to 32 cwt/acre with a mean of 23 cwt/acre. Variability was not well controlled in this 3-rep test (CV=12.5%) despite being direct harvested and the LSD was 4.7 cwt/acre resulting in only 3 lines that significantly outyielded the test mean. The top yielding entries included B05055 (as in test 8102) along with a reselection of the same line. A new navy line N08007 ranked 1st producing 2.6 cwt/acre more than the 2nd entry. A reselection of Zorro ranked 4th. Clearly resistance to CBB was a major factor in this test and a number of new lines showed good levels of resistance along with acceptable yield potential.

Expt. 8104: Standard Great Northern Bean Yield Trial

This 30-entry trial included MSU great northern breeding lines and standard commercial check varieties. The test ranged in yield from 14 to 23 cwt/acre with a mean yield of 18 cwt/acre. Variability was high (CV= 13.9%) resulting in a high LSD value (3.6 cwt/acre) needed for significance. Only one breeding line G07302 significantly outperformed the test mean. This line ranked 2nd in 2007 and has upright architecture as reflected in a high DS score. Two older lines G05239 and G05220 that were 1st and 3rd in 2007 were also in the top group along with Matterhorn. The trial was direct harvested when the plants were very dry resulting in higher shattering and seed splitting, and probable lower yields. Only those entries with larger seed size, improved dry seed quality and cracking resistance over Matterhorn will be advanced in 2009.

Expt. 8105: Standard Pinto Bean Yield Trial

This 42-entry trial included standard commercial pinto bean varieties, breeding lines from USDA program in WA, and advanced lines from the MSU breeding program that carry the P-prefix. The trial ranged in yield from 12.6 to 24.7 cwt/acre with a mean of 20 cwt/acre. There was greater variability (CV=11.7%) in this trial than in past years and the LSD needed for significance was 3.3 cwt/acre. The trial was direct harvested which would explain the higher variability and lower yield of the more prostrate check varieties, Buster and Othello. Only four entries significantly out-yielded the test mean and these included the new La Paz variety. La Paz was among the latest maturing entries. Two sister lines with CBB resistance were the top entries and the 3rd line P07863 was the highest yielding pinto in the white mold trials in Montcalm in 2007 and 2008. Other lines from the same cross exceeded the test mean, whereas a few were among the lowest yielding. New varieties Stampede, Lariat and Santa Fe yielded above the test mean, whereas the prostrate varieties Buster and Othello were among the lowest yielding. Three entries from USDA-WA performed above the test mean. Only those entries with more upright architecture and equivalent canning quality to Othello will be advanced in 2009.

Expt. 8106: Standard Pink and Small Red Bean Yield Trial

This 20-entry trial included small red and pink breeding lines from the USDA program at Prosser, Washington (USWA) and new pink lines from MSU (S-prefix), standard commercial check varieties. The test ranged in yield from 14 to 27 cwt/acre with a mean yield of 19 cwt/acre. Variability was high (CV=14.4%) due to direct harvesting resulting in a LSD value (3.8 cwt/acre) for significance. Four lines significantly outperformed the test mean and three red lines (R06-prefix) represented the same family as in 2007. These lines showed high levels of resistance to CBB but lacked the seed quality of Merlot. Despite the higher yield, all lines in this family were more prostrate and longer maturing and are unlikely to have the stature needed of a new variety. The one pink line S07501 continues to show potential and appears to possess partial resistance to CBB. Check varieties such as Brooks, Merlot, and Sedona were equal to or lower than the test mean. All varieties were lower yielding due to the high incidence of CBB in the plots. Reselections were made in Merlot in 2007 to remove the late maturing plants and the reselected line was similar to Merlot in yield and phenotype. Only those small red entries equivalent to Merlot and pink lines equivalent to Sedona in canning quality will be advanced in 2009.

Expt. 8107: Standard Tebo Bean Yield Trial

This 12-entry trial is the part of the program to develop a Tebo (Otebo) medium white bean with resistance to Bean Common Mosaic Virus (BCMV). Tebo is a specialty class that is exported to Japan for preparation of 'An' sweet bean paste. Included in the test are fourth backcross (BC4; G05-Prefix) lines similar to Tebo with resistance to BCMV. Virus resistance came from Matterhorn parent and was backcrossed to the Hime Tebo parent to recover Tebo plant and seed type. The test ranged in yield from 12 to 22 cwt/acre with a mean yield of 17 cwt/acre. Variability was very high (CV=18.9%) resulting in a LSD value (4.4 cwt/acre) for significance, so only two lines significantly outperformed the test mean. Fuji, previous code G05922 that ranked 1st in 2007 and 2nd in 2006 was at the bottom of the test. The trial was direct harvested which may have resulted in more seed loss in these short stature bush beans, but the CBB infection severely damaged the two G05-lines. The high incidence of CBB in the trial may have contributed to lower yields and increased variability in this

test. Included in the test was a group of sister lines from a cross between an upright navy and two great northern bean. These lines are indeterminate, more upright than the bush tebo and have a seed size similar to tebo. Two of these lines show excellent yield potential and upright architecture based on high DS scores. A select group of the highest-yielding lines will be evaluated for their suitability in making sweet bean paste and any decision on lines to advance will depend on those results.

Expt. 8108: Preliminary-PYT1 Great Northern Bean Yield Trial

This 42-entry trial includes new MSU great northern breeding lines (G08-prefix) and standard commercial check varieties. The test ranged in yield from 14 to 26 cwt/acre with a mean yield of 21 cwt/acre. Variability was high (CV= 11.5%) resulting in a high LSD value (4 cwt/acre) needed for significance. Only one breeding line G08243 significantly outperformed the test mean. The 2nd line G08217 has improved upright architecture as reflected in a high DS=6.4 score (Matterhorn=4). The trial was direct harvested when the plants were very dry resulting in higher shattering and seed splitting, and probable lower yields. However, yields were higher than those in test 8104 (harvested on same day) as Matterhorn yielded >2cwt/acre in this test. Only those entries with larger seed size, improved dry seed quality and cracking resistance over Matterhorn will be advanced in 2009.

Expt. 8109: Preliminary-PYT2 Great Northern Bean Yield Trial

This 42-entry trial includes new MSU great northern breeding lines (G08-prefix) and standard commercial check varieties. The test ranged in yield from 23 to 31 cwt/acre with a mean yield of 26 cwt/acre. Variability was high (CV= 11.3%) resulting in a high LSD value (4.8 cwt/acre) needed for significance. No breeding lines significantly outperformed the test mean. The trial was direct harvested following a 1" rain, so there was less shattering and seed splitting than in tests 8104 and 8108. The yields were higher than those in test 8109 as Matterhorn yielded >2cwt/acre in this test. Only those entries with high yield potential, improved dry seed quality and cracking resistance over Matterhorn will be advanced in 2009.

Expt. 8110: Preliminary-PYT1 Pinto Bean Yield Trial

This 64-entry trial includes new MSU pinto bean breeding lines (P08-prefix) and standard commercial check varieties. The trial ranged in yield from 14 to 26 cwt/acre with a mean of 19 cwt/acre. There was greater variability (CV=23.6%) in this trial than in past years and the LSD needed for significance was 7.5 cwt/acre. No breeding lines significantly outperformed the test mean, but P08339 yielded 1.4 cwt/acre above the next entry. The trial was direct harvested following a 1" rain, so there was less shattering and seed splitting than in tests 8104 and 8108. La Paz was among the highest yielding variety followed by Santa Fe at <3cwt/acre less. Only those entries with more upright architecture and equivalent canning quality to Othello will be advanced in 2009.

Expt. 8111: Preliminary-PYT2 Pinto Bean Yield Trial

This 56-entry trial includes new MSU pinto bean breeding lines (P08-prefix) and standard commercial check varieties. The trial ranged in yield from 13 to 27 cwt/acre with a mean of 21 cwt/acre. There was greater variability (CV=15.2%) in this trial than in past years and the LSD needed for significance was 5.2 cwt/acre. Five breeding lines significantly outperformed the test

mean including La Paz variety. The trial was direct harvested when the plants were very dry resulting in higher shattering and seed splitting, and probable lower yields, but yields were higher than those in test 8105. Santa Fe was below the test mean. Only those entries with more upright architecture and equivalent canning quality to Othello will be advanced in 2009.

Expt. 8112: Preliminary-PYT1 Pink and Small Red Bean Yield Trial

This 36-entry trial includes new MSU pink (S08-prefix) and small red (R08-prefix) bean breeding lines and standard commercial check varieties. The trial ranged in yield from 7 to 25 cwt/acre with a mean of 17 cwt/acre. There was greater variability (CV=23.4%) in this trial than in past years and the LSD needed for significance was 6.5 cwt/acre. Four breeding lines significantly outperformed the test mean including two sister lines (pink & red) that possess CBB resistance. The two selections from Merlot and Sedona performed better than original varieties. Merlot was above the test mean but Sedona was below the test mean. Only those entries with more upright architecture and equivalent canning quality to either Merlot or Sedona will be advanced in 2009.

Expt. 8113: Preliminary-PYT2 Pink and Small Red Bean Yield Trial

This 56-entry trial includes new MSU pink (S08-prefix) and small red (R08-prefix) bean breeding lines and standard commercial check varieties. The trial ranged in yield from 7 to 25 cwt/acre with a mean of 18 cwt/acre. There was greater variability (CV=16.7%) in this trial than in past years and the LSD needed for significance was 4.8 cwt/acre. Thirteen breeding lines significantly outperformed the test mean including Merlot. Within this group 11 were pink lines and only one was small red suggesting that higher yield potential resides in pink seed class. Sedona performed better ~ 5 cwt/acre than in test 8112. Only those entries with more upright architecture and equivalent canning quality to either Merlot or Sedona will be advanced in 2009.

Expt. 8114: Combined Midwest Regional Performance Nursery (MRPN) & Cooperative Dry Bean Nursery (CDBN) Yield Trial

The MRPN is conducted annually in cooperation with North Dakota (ND-prefix), Nebraska (NE-prefix) and Colorado (CO-prefix) in order to test new pinto and great northern lines from all four programs and assess their potential in the different regions. The CDBN is national and includes all classes but only medium-sized entries were included in this trial. The 42-entry trial ranged in yield from 9 to 27 cwt/acre with a mean of 19 cwt/acre. Variability was high (CV=13.7%) resulting in a LSD value (4.2 cwt/acre) for significance. As a result only seven lines were significantly higher in yield than the test mean. The top yielding entries were all pintos including Kimberly variety. The 2nd entry P07863 was the top yielding entry in the white mold trials in 2007 and 2008. The group included two other MSU lines P07405 and P06131, decumbent line CO 55658 from Colorado, and an erect pinto PT 7-1 from USWA. Nine check varieties, including Santa Fe, Matterhorn, Buster and Othello yielding below the test mean. The exceptions were the two new varieties Stampede and Lariat and decumbent variety, Sawtooth which yielded above the test mean. This cooperative trial continues to be valuable as it allows an evaluation of potential new lines prior to release in other states.

Expt. 8115: Standard Vine Cranberry Bean Yield Trial

This 9-entry trial was grown in Saginaw to identify those lines with improved performance over the check, Michigan Improved Vine Cranberry (Micran). The test included lines (coded C05-, C06-), bush cranberry variety Capri and the check was the vine cranberry variety Chianti. Yields ranged from 17 to 24 cwt/acre with a mean of 21 cwt/acre. Variability was modest in this test (CV=9.4%) as the trial was pulled, and LSD value of 2.7 cwt/acre was needed for significance. Only two lines significantly outyielded the test mean and included the Chianti check. The top entry C06808 with a more upright habit and larger seed (56g) showed the best potential in 2008 and 2007. It was the largest seeded entry and has exhibited canning quality equivalent to Micran in contrast to the traditional bush cranberry varieties that do not can satisfactory. The check varieties, Micran, T. Hort and new line C07403 performed poorly and the mediocre performance raises concerns over their future potential. C05625, the top-yielding entry in Montcalm in 2006, ranked 6th in 2007 and was 4th in this test behind Capri. Only those entries with equivalent canning quality to Micran will be advanced in 2009.

Expt. 8216: Standard Bush Cranberry Bean Yield Trial

This 30-entry trial was conducted on the Montcalm Research Farm to compare new and standard bush cranberry bean varieties under supplemental irrigation. Yields ranged from 17 to 39 cwt/acre with a mean of 27 cwt/acre. Variability was high (CV=15%) in this test and the LSD needed for significance was high (5.7 cwt/acre). Only three lines significantly outyielded the test mean and these included the new breeding line C07412 and USCR-CBB-19 & 20 lines from USWA suggesting that higher levels of resistance to CBB is contributing to yield. There was a 4 cwt difference in yield between the 3rd and 4th entries and Capri ranked 5th. The best new MSU entry C07403 in 2007 ranked 8th in 2008. Check varieties, Hooter, T. Hort and Cardinal all yielded below the test mean. Only those entries equivalent to Capri in seed size and canning quality will be advanced in 2009.

Expt. 8217: Preliminary Bush Cranberry Bean Yield Trial

This 36-entry trial was conducted on the Montcalm Research Farm to compare new bush cranberry bean varieties under supplemental irrigation. Yields ranged from 2 to 33 cwt/acre with a mean of 24 cwt/acre. Variability was moderate (CV=8.6%) in this test and the LSD needed for significance was 3.3 cwt/acre. Fourteen lines significantly outyielded the test mean and these included the new breeding lines that originated from the same cross. Those with seed size <55 g will be discarded. Capri yielded above the test mean. A group of yellow beans (code FR-prefix) were low yielding well below the test mean. A few were not adapted yielding less than 10 cwt/acre. Only those entries equivalent to Capri in seed size and canning quality will be advanced in 2009.

Expt. 8218: Standard Kidney Bean Yield Trial

This 42-entry trial was conducted on the Montcalm Research Farm to compare the performance of standard and new light red kidney (LRK), dark red kidney (DRK) and white kidney (WK) bean varieties from MSU and CDBN under supplemental irrigation (8x total 5.25"). Yields ranged from 6 to 41 cwt/acre with a mean of 33 cwt/acre. Variability was high (CV=12.4%) resulting in a large LSD value (5.7 cwt/acre) needed for significance. Five entries significantly outyielded the test mean

and these included varieties Chinook and Montcalm and three new DRK lines K06001 and sister lines K06011 and K06012. The later cross is among the top yielding lines. Chinook Select ranked 1st and outperformed Chinook 2000 in 2008 as in 2007. Other checks, CELRK, Redcoat and new varieties Lyrik and Blush were lower yielding and fell below the test mean. The new CBB resistant line (CBB-15) including Red Hawk and Beluga were above the test mean. Since canning quality is vital in kidney beans, only those DRK lines equivalent in canning quality to Red Hawk, LRK lines equal or better than CELRK and WK lines equivalent to Beluga will be advanced in 2009.

Expt. 8219: Preliminary Kidney Bean Yield Trial

This 64-entry trial was conducted to compare the performance of DRK, LRK and WK-kidney varieties with new kidney bean lines (K08-prefix), under supplemental irrigation at the Montcalm Research Farm. Yields ranged from 18 to 39 cwt/acre with a mean of 28 cwt/acre. Variability was very high (CV=15.4%) resulting in a large LSD value (7cwt/acre) needed for significance. Four DRK sister lines significantly outyielded the test mean and many of the entries in this test exhibited good levels of CBB resistance. Seed size varied from under 50 g to over 73 g. All entries will be canned prior to advance in 2009.

Expt. 8220: Preliminary White Kidney Bean Yield Trial

This 64-entry trial was conducted to compare the performance of new white kidney lines (K08-prefix) with CBB resistance, under supplemental irrigation at the Montcalm Research Farm. Yields ranged from 15 to 47 cwt/acre with a mean of 38 cwt/acre. Variability was moderate (CV=8.8%) resulting in a large LSD value (5.5 cwt/acre) needed for significance. Seven lines significantly outyielded the test mean and many of the entries in this test exhibited good levels of CBB resistance. Seed size ranged from under 50 g to 98 g (fabada types). All entries will be canned prior to advance in 2009.

Expt. 8221: Standard White Kidney Bean Yield Trial

This 9-entry trial was conducted to compare the performance and canning quality of older white kidney lines, under supplemental irrigation at the Montcalm Research Farm. Yields ranged from 23 to 33 cwt/acre with a mean of 28 cwt/acre. Variability was moderate (CV=7.6%) resulting in LSD value (3.5 cwt/acre) needed for significance. Only one line K04607 significantly outyielded the test mean and Beluga and most of the entries were low yielding compared to lines in test 8220. Seed size and canning quality will influence lines that will be advanced in 2009.

Expt. 8222: White Mold Variety Yield Trial

This 64-entry trial was conducted at Montcalm to evaluate a range of diverse dry bean varieties and breeding lines for reaction to white mold under natural field conditions. Genotypes included commercial navy and black bean cultivars, elite MSU lines, and new sources of white mold resistance entered as part of the National *Sclerotinia* Initiative (NSI) Nursery. Lines in the National trial were developed at MSU, OSU, CSU, Cornell, NDSU and USDA-WA. Entries were planted in two row plots with two rows of susceptible spreader variety Beryl between plots. Supplemental overhead irrigation was applied 13 times for a total of 8.4" to maintain adequate levels of moisture

for favorable disease development at the critical flowering period. Natural white mold infection occurred across the entire trial and was extremely severe in certain plots. White mold was rated on a per plot basis on a scale of 1 to 9 based on disease incidence and severity where 9 had 90+% incidence and high severity index. White mold ranged from 20 to 67% and pressure was lower than in past years. The test ranged in yield from 15 to 54 cwt/acre with a mean yield of 39 cwt/acre. Variability was moderate (CV=9.9%), thus a high LSD value (6.4 cwt/acre) was needed for significance. Despite the variability, 13 lines significantly outyielded the test mean and the results are similar to data collected in 2006 and 2007. Two black lines B05055 and B04316 exceeded 50 cwt/acre were among the top entries in 2008 and had previously topped trials in 2006 and 2007. Both black lines exhibited CBB resistance and continued to grow when other entries had succumbed to disease. Top entry was pinto line P07863 that was the top yielder in 2007 was entered in NSI trial and this line continues to demonstrate superior yield performance under white mold pressure. Two other pinto lines P07757 and P07751 that ranked 1st and 2nd in test 7215 in 2007 also showed excellent potential by exceeding 50 cwt/acre in 2008. One of the highest yielding entry B07104 in past years was entered in NSI and ranked 15th in this trial. This line came from an inbred backcross line (IBL) population developed from the cross of Tacana*2/PI 318695. PI 318695 is a wild accession from Mexico. One of the black lines in the top group in 2007 was B03622 that topped yield trial in Saginaw in 2006 and ranked 5th in 2008 but has been inconsistent in yield. The reselected Merlot exceeded yield of Merlot by 4cwt/acre. Only Santa Fe, Merlot and Condor exceeded the test mean. Among the MSU varieties that produced disappointing yields below the test mean were Zorro, Jaguar, Sedona, Matterhorn and Bunsil. Beryl, Orion and Fuji had the highest mold ratings (60%) with corresponding low yields. Seven entries from NSI trial were among 10-lowest yielding lines. Past experience using low-yielding white mold resistant germplasm as parents has not proved useful in breeding for white mold resistance. Overall the trial confirmed results from previous years and this trial will continue to be a vital part of the breeding effort to improve tolerance to white mold in dry beans.

Expt. 8223: White Mold Genetic Yield Trial

A 4-replicate 96-entry trial was conducted at Montcalm to evaluate the genetic resistance to white mold in the recombinant inbred line (RIL) pinto population AP630 developed from the cross of AN 37/P02630. Cross was made to introduce white mold resistance from AN 37 into the upright pinto line P02630 from the MSU program. Natural white mold infection occurred across the entire trial and ranged from 12 to 36% so disease pressure was low despite 13 irrigations to promote disease development. The test ranged in yield from 30 to 52 cwt/acre with a mean yield of 40 cwt/acre. Variability was moderate (CV=9.7%), and a LSD value (5.5 cwt/acre) was needed for significance. Despite the variability, six lines significantly outyielded the test mean and the results are similar to data collected in 2007. Top entry was pinto line P07863 that was the top yielder in 2007 and in test 8222 and this line continues to demonstrate superior yield performance under white mold pressure. Two other lines P07839 and P07901 that ranked 3rd and 4th in 2007 were among the top six entries in 2008. The two parents yielded below the test mean and many of the lowest yielding entries were similar in both years. A genetic mapping experiment to find markers associated with white mold resistance in this population will be initiated. Elite lines will be included in standard pinto bean yield tests in 2009.

Expts. 8241-8242: Leafhopper Screening Trials

Two 16-entry trials were conducted in Montcalm to determine the reaction of diverse group of genotypes to natural infections by potato leaf hopper (PLH). Both trial locations were planted near alfalfa fields which are usually a source of insects particularly following second cutting. PLH population incidence was monitored to determine whether PLH preferences exist between the difference genotypes. By monitoring the differences in the number of PLH nymph numbers, inferences can be made as to oviposition (egg-laying) and feeding preferences of the PLH insects. No insecticide was applied to this nursery and the numbers of PLH nymphs were counted on two separate occasions prior to flowering. The yield in test 8241 small-seeded entries ranged from 18 to 41 cwt/acre with a mean of 32 cwt/acre. Variability was moderate (CV=7.6%), the LSD was 4.0 resulting in five lines that significantly exceeded test mean. This group was 4 cwt/acre above next entries. The top-yielding entries B05055, B04316 and Zorro were the same two black lines that topped prior tests in Montcalm. Among the small-seeded entries, the black bean Raven had the lowest PLH nymph counts in each trial location. The yield in test 8242 large-seeded entries ranged from 23 to 36 cwt/acre with a mean of 30 cwt/acre. Variability was moderate (CV=11.2%), the LSD was 5.5 resulting in only Merlot significantly exceeded test mean.

Expts. 8443-8444: Leafhopper Screening Trials

Two 16-entry trials were conducted in East Lansing to determine the reaction of diverse group of genotypes to natural infections by PLH. Both trial locations were planted near alfalfa fields which are usually a source of insects particularly following second cutting. PLH population incidence was monitored to determine whether PLH preferences exist between the difference genotypes. By monitoring the differences in the number of PLH nymph numbers, inferences can be made as to oviposition (egg-laying) and feeding preferences of the PLH insects. No insecticide was applied to this nursery and the numbers of PLH nymphs were counted on two separate occasions prior to flowering. The yield in test 8443 small-seeded entries ranged from 17 to 37 cwt/acre with a mean of 31 cwt/acre. Variability was high (CV=15.9%), the LSD was 8.0 so no lines significantly exceeded test mean. The yield in test 8444 large-seeded entries ranged from 23 to 42 cwt/acre with a mean of 33 cwt/acre. Variability was moderate (CV=7.8%), the LSD was 4.2 resulting in five lines that significantly exceeded test mean. These included Matterhorn and Merlot and two pinto Sierra and Aztec and they had lower overall PLH counts within the large-seeded entries while still having higher than average yields. Large-seeded genotypes generally had consistently higher PLH counts than small-seeded genotypes in each trial location. Specifically, the kidney varieties K03240, Montcalm and Beluga consistently had the highest numbers of leafhopper nymphs present across field trial locations indicating susceptibility to the pest. Plans are underway to continue this research in 2009.

Expts. 8831, 8832, 8833, 8834, 8935, 8936, 8937, 8938: Organic Dry Bean Yield Trials, KBS & Gratiot County

Sixteen small-seeded and 16 large-seeded genotypes were evaluated for their performance in an organic production system. Side by side, organic and conventional, plots were planted in fields at Kellogg Biological Station (KBS), Kalamazoo County (Expts. 8831, 8832, 8833, 8834) and also in a commercial grower's fields in Gratiot County near Alma (Expts. 8935, 8936, 8937, 8938). Organic plots were planted in certified organic fields whereas conventional plots planted on adjacent non

certified land served as a control. Organic plots and conventional plots were identical in layout and genotypes included. Organic plots were managed using approved organic methods while traditional practices were followed on conventional plots. Rainfall at both locations was inconsistent resulting in reduced yields and increased variation. Severe weed pressure in the organic plot (Expts. 8831 and 8833) at KBS further contributed to variation at that site. Small-seeded genotypes included navy and black beans along with a stress resistant line, TARS with shiny red seeds (Expts. 8831, 8833, 8935, 8937). A non-nodulating genotype, R99, derived from the navy Bunsil/Ex Rico, was included to estimate the level of nitrogen fixation of other genotypes in the study. The large seeded genotypes represented pinto, pink, small red, great northern, cranberry and kidney seed types (Expts. 8832, 8834, 8936, 8938). Yield for the small seeded at KBS ranged from 9.1 cwt/acre to 16.1 cwt/acre for the organic experiment while the conventional had a higher yield, with a range of 10.2 cwt/acre to 21.6 cwt/acre. The mean for organic was 12.7 cwt/acre with a mean of 17.9 for the conventional plot. There was considerable variability resulting in LSD values of 3.8 and 4.8 respectively. The large-seeded organic experiment at KBS yielded less than the conventional. The average yield for the organic plots was 12.4 cwt/acre compared to 16.6 cwt/acre in conventional. There was considerable range in yield in each test, ranging from 8.3 cwt/acre to 15.4 cwt/acre for organic with the range from 12.5 cwt/acre to 20.2 cwt/acre for the conventional. None of the small seeded genotypes yielded significantly different than the mean, however Buster yielded significantly greater than the mean ($P=0.05$, $LSD=3.0$) in the organic trial at KBS (Expt. 8832), whereas Matterhorn yielded significantly better in the conventional test (Expt. 8834) than the mean ($P=0.05$, $LSD=3.4$). Yield was lower in the organic plots than conventional plots indicating that nutrients were a limiting factor.

In Gratiot County, small seeded genotypes in the organic plots had a range of 1.6 cwt/acre to 10.4 cwt/acre compared to a range of 7.8 cwt/acre to 19.4cwt/acre in the conventional plot. As expected the non-nodulating genotype, R99, was the lowest yielder in both organic and conventional tests. The range for large seeded genotypes in the organic plots was 6.1 cwt/acre to 19.0 cwt/acre. Variation was greatest in the organic plots, with a CV of 25.1%. In conventional plots yield of large seeded genotypes ranged from 7.9 cwt/acre to 22.4 cwt/acre. Variation was greater for the organic plots ($CV=21.3\%$ versus $CV=14.1\%$ for conventional). Both Jaguar and 115M black lines yielded significantly better than the mean in the organic plots ($P=0.05$, $LSD=2.6$). The newly released black bean Zorro significantly exceeded the average yield in the conventional plots ($P=0.05$, $LSD=3.7$). Large seeded genotypes, Sedona, Merlot and pinto P06131, yielded significantly greater than the means in both organic and conventional plots ($P=0.05$, $LSD=3.2$ and 2.6 respectively). In the conventional plots, Buster also yielded significantly greater than the test mean ($P=0.05$, $LSD=2.6$).

Early Generation Breeding Material grown in Michigan in 2008

F3 through F5 lines

Navy and Black - 640 lines
Pinto - 665 lines
GN - 371 lines
Pinks and Reds - 216 lines
Kidneys (DR, LR, White) - 380 lines
Cranberry (bush, vine) - 144 lines
Yellow Eye – 21 lines
Flor De Mayo – 127 lines

F2 populations

Navy and Black -314 populations
Pinto - 150 populations
GN - 103 populations
Pinks and Reds - 90 populations
Kidneys (DR, LR, White) – 87 populations
Cranberry (bush, vine) – 100 populations
Tebo – 23 populations

F1 populations: 862 different crosses among seven contrasting seed types.

2008 DRY BEAN YIELD TRIALS

EXPERIMENT	TITLE	PLANTING DATE	LOCATION	ENTRIES	DESIGN	REPS	HARVEST METHOD
8101	STANDARD NAVY BEAN YIELD TRIAL	06/03/08	B&B FARM SAGINAW	30	REC. LATTICE	4	DIRECT HARVESTED
8102	STANDARD BLACK BEAN YIELD TRIAL	06/03/08	B&B FARM SAGINAW	36	SQ. LATTICE	4	DIRECT HARVESTED
8103	PRELIM NAVY & BLACK BEAN YLD TRIAL	06/03/08	B&B FARM SAGINAW	20	REC. LATTICE	3	DIRECT HARVESTED
8104	STANDARD GREAT NORTHERN YIELD TRIAL	06/03/08	B&B FARM SAGINAW	30	REC. LATTICE	4	DIRECT HARVESTED
8105	STANDARD PINTO BEAN YIELD TRIAL	06/03/08	B&B FARM SAGINAW	42	REC. LATTICE	4	DIRECT HARVESTED
8106	STANDARD PINK & SMALL RED YLD TRIAL	06/03/08	B&B FARM SAGINAW	20	REC. LATTICE	4	DIRECT HARVESTED
8107	STANDARD TEBO BEAN YIELD TRIAL	06/03/08	B&B FARM SAGINAW	12	REC. LATTICE	4	DIRECT HARVESTED
8108	PRELIM. GREAT NORTHERN YLD TRIAL-1	06/04/08	B&B FARM SAGINAW	42	REC. LATTICE	3	DIRECT HARVESTED
8109	PRELIM. GREAT NORTHERN YLD TRIAL-2	06/04/08	B&B FARM SAGINAW	42	REC. LATTICE	3	DIRECT HARVESTED
8110	PRELIM. PINTO BEAN YIELD TRIAL-1	06/04/08	B&B FARM SAGINAW	64	SQ. LATTICE	3	DIRECT HARVESTED
8111	PRELIM. PINTO BEAN YIELD TRIAL-2	06/04/08	B&B FARM SAGINAW	56	REC. LATTICE	3	DIRECT HARVESTED
8112	PRELIM. PINK & SMALL RED YLD TRIAL	06/04/08	B&B FARM SAGINAW	36	SQ. LATTICE	3	DIRECT HARVESTED
8113	PRELIM. PINK & SMALL RED YLD TRIAL	06/04/08	B&B FARM SAGINAW	56	REC. LATTICE	3	DIRECT HARVESTED
8114	MIDWEST @ CO-OP VARITEY YIELD TRIAL	06/04/08	B&B FARM SAGINAW	42	REC. LATTICE	3	DIRECT HARVESTED
8115	STANDARD VINE RANBERRY YIELD TRIAL	06/04/08	B&B FARM SAGINAW	9	SQ. LATTICE	4	HAND PULLED
8216	STANDARD BUSH KIDNEY YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	30	REC. LATTICE	4	KNIFE PULLED
8217	PRELIMINARY BUSH CRAN YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	36	SQ. LATTICE	3	KNIFE PULLED
8218	STANDARD BUSH KIDNEY YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	42	REC. LATTICE	4	KNIFE PULLED
8219	PRELIMINARY KIDNEY BEAN YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	64	SQ. LATTICE	3	KNIFE PULLED
8220	PRELIMINARY KIDNEY BEAN YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	64	SQ. LATTICE	3	KNIFE PULLED
8221	PRELIMINARY KIDNEY BEAN YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	9	SQ. LATTICE	3	KNIFE PULLED
8222	WHITE MOLD VARIETY YIELD TRIAL	06/12/08	ENTRICAN MONTCALM	64	SQ. LATTICE	3	ROD PULLED
8223	WHITE MOLD GENETIC TRIAL	06/12/08	ENTRICAN MONTCALM	96	RCBD	4	ROD PULLED
8241	PLH TOLERANCE TRIAL	06/12/08	ENTRICAN MONTCALM	32	SQ. LATTICE	3	KNIFE PULLED
8442	PLH TOLERANCE TRIAL	05/29/08	CAMPUS E.L.	32	SQ. LATTICE	3	HAND PULLED
8831	ORGANIC YIELD TRIAL	06/01/08	KBS KALAMAZOO	32	SQ. LATTICE	4	HAND PULLED
8832	CONVENTIONAL YIELD TRIAL	06/01/08	KBS KALAMAZOO	32	SQ. LATTICE	4	HAND PULLED
8933	ORGANIC YIELD TRIAL	06/12/08	ST. LOUIS GRATIOT	32	SQ. LATTICE	4	HAND PULLED
8934	CONVENTIONAL YIELD TRIAL	06/12/08	ST. LOUIS GRATIOT	32	SQ. LATTICE	4	HAND PULLED

PROCEDURE: PLANTED IN 4 ROW PLOTS, 21 FEET LONG, 20 INCH ROW WIDTH, 4 SEEDS/FOOT, 15 FOOT SECTION OF CENTER 2 ROWS WAS HARVESTED AT MATURITY.

SAGINAW: FERTILIZER BANDED: 200 POUNDS OF 33-11-0 + 4% MN + 1% ZN ZT PLANTING.

HERBICIDES APPLIED: 1.25 QT DUAL + 2 QT. EPTAM APPLIED PPI.

PESTICIDES APPLIED: 9.6 OZ. ASANA ON JULY 5 + JULY 24.

ENTRICAN: FERTILIZER BANDED: 200 POUNDS OF 19-19-19 AT PLANTING. 30 LBS. NITROGEN SIDE DRESSED ON JULY 2.

HERBICIDES APPLIED: 2 PT. SONALAN + 1.25 QT EPTAM + 2PT. DUAL APPLIED PPI.

PESTICIDES APPLIED: 8.0 OZ. ASANA ON JULY 15.

IRRIGATION APPLIED: 8.4 INCHES ON WHITE MOLD TRIALS - 13 APPLICATIONS; 5.25 INCHES ON STANDARD YIELD TRIALS - 8 APPLICATIONS

EXPERIMENT 8108 GREAT NORTHERN PYT-1

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G08243	G02460/G04514	40	25.7	37.1	44.0	89.6	2.0	48.7	5.1
G08217	G02646/G02454	17	24.9	38.3	43.0	90.4	1.5	53.3	6.4
G08239	G04514/G02647	36	24.4	40.9	42.0	88.2	2.0	52.4	4.0
G08209	I03359/G02646	9	23.8	36.5	43.5	90.7	1.5	53.2	5.5
G08225	G98602//I03387/G93414	25	23.6	37.6	43.5	89.2	1.5	49.3	4.5
G93414	MATTERHORN	42	23.1	36.3	43.5	88.1	2.0	47.6	4.0
G08203	I03387/G93414//P02647	3	22.9	40.9	44.0	88.0	2.5	46.4	4.0
G08206	I03359/G02646	6	22.8	33.0	41.5	91.4	2.0	49.8	4.0
G08220	G02647/G98602	20	22.7	36.7	43.5	89.0	1.5	49.6	5.0
G08228	G02647/G02454	28	22.6	37.5	43.4	90.2	2.0	50.3	5.0
G08237	G02460/G04517	34	22.5	35.2	43.0	88.5	2.0	46.9	4.5
G08224	I03387//P00227/G02451	24	22.5	35.5	44.5	90.9	1.5	51.2	5.5
G08210	G02646/I02545	10	22.3	38.0	43.5	91.7	1.5	53.9	6.0
G08222	G02647/G98602	22	22.3	37.9	44.0	91.0	1.5	49.9	5.5
G08236	G02460/G04517	33	22.3	35.7	43.0	88.5	2.0	48.1	4.5
G08215	G02646/G02454	15	22.2	41.3	44.0	91.1	2.0	52.9	6.0
G08241	G04514/G02647	38	22.1	36.7	43.5	91.4	2.0	51.7	5.5
G08202	I03387/G93414//P02647	2	21.9	38.1	44.0	88.3	2.0	48.0	4.0
G08201	I03387/G93414//P02647	1	21.9	40.0	43.0	88.0	2.0	48.9	3.5
G08216	G02646/G02454	16	21.8	37.2	43.5	90.0	1.0	49.5	5.0
G08208	I03359/G02646	8	21.8	37.9	43.5	90.2	1.5	52.9	5.4
G08230	G02647/G02454	30	21.8	39.9	43.5	90.8	1.5	50.2	5.5
G08242	G04514/G02647	39	21.4	35.0	43.0	88.0	1.5	48.0	4.5
G08226	G98602/I02541	26	21.3	36.0	42.5	88.8	1.0	48.2	5.0
G08238	G02460/G04517	35	21.3	35.8	42.5	87.1	2.0	47.7	3.5

EXPERIMENT 8108 GREAT NORTHERN PYT-1

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G08223	G02647//P00227/I03386	23	20.9	37.1	43.5	91.5	1.5	51.1	6.0
G08240	G04514/G02647	37	20.7	36.6	43.0	89.5	2.0	50.4	5.0
G08229	G02647/G02454	29	20.3	38.6	44.0	90.4	1.5	50.3	5.5
G08232	I03387//G93414/G02462	32	20.2	36.7	44.0	92.2	2.0	51.6	4.0
G08218	G98602/G02462	18	20.2	35.9	43.5	88.1	1.0	49.2	4.0
G08244	P05457/P00225	41	19.9	35.1	43.5	90.8	2.0	51.0	4.5
G08207	I03359/G02646	7	19.8	38.0	43.5	90.4	1.0	52.6	5.5
G08212	G02462/I02541	12	19.3	38.2	42.0	89.4	1.5	51.0	5.0
G08213	G02462/I02541	13	19.1	37.3	43.0	89.1	1.0	48.9	4.5
G08231	I03387//P00227/G02454	31	19.1	37.2	44.0	89.8	1.0	51.3	5.0
G08205	I03359/G02647	5	18.9	37.6	43.5	89.7	1.0	47.2	4.5
G08204	I03359/G02647	4	18.8	38.3	43.5	89.4	1.5	48.9	4.0
G08221	G02647/G98602	21	18.6	34.7	43.5	90.0	1.5	48.1	4.0
G08211	G02462/I02541	11	18.0	35.9	43.5	88.3	1.0	48.8	4.5
G08214	G02462/I02541	14	17.6	35.6	43.0	88.8	1.0	50.4	4.5
G08227	G02646/G02642	27	16.7	34.6	43.5	88.7	1.0	48.9	4.5
G08219	G98602/G02454	19	14.2	36.1	43.0	89.5	1.0	48.6	4.0
AVERAGE OF PRECEDING 42 MEANS			21.1	37.1	43.3	89.6	1.6	49.9	4.8
LSD (P=.05)			4.0	2.4	0.7	0.8	0.5	1.8	0.6
LSD (P=.01)			5.2	3.1	1.0	1.1	0.6	2.4	0.8
COEFFICIENT OF VARIATION			11.5	3.9	1.0	0.6	19.4	2.3	7.4

EXPERIMENT 8101 STANDARD NAVY YIELD TEST

DATE 06/03/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LOGGING	HEIGHT	DES. SCORE
N05319	29-1/JAGUAR*2/SEL1308//HR45/KABOON	11	25.8	21.6	45.0	95.0	2.0	52.8	5.0
N04109	B98306 / X01002	30	21.8	19.6	45.5	92.0	1.5	49.3	5.0
N07007	N03614/N00844	10	20.9	17.4	45.5	89.5	1.0	48.3	4.4
N05311	N03611/B01749	2	20.5	20.2	46.5	90.5	1.0	48.7	4.5
N06705	N99219/X00821	22	20.2	17.1	43.5	93.0	1.5	50.3	6.0
N04158	N00820 / I00758	29	20.1	22.1	46.0	91.5	1.0	51.6	6.0
N05310	N03611/B01749	5	20.0	19.2	45.4	93.9	1.0	51.3	4.0
N05070	5-15/PHANTOM*2/SEL 1308//HR45/KABOON	8	19.8	21.4	46.0	93.5	1.5	50.4	3.6
N04164	N94080 // N98118 / N93296	9	19.1	21.9	46.5	91.6	1.0	50.6	4.0
N06703	N00809//B95556*2/I93154	12	19.1	21.1	46.1	90.5	1.0	50.8	4.5
N08013	N02302/X03102	27	18.1	19.9	45.9	88.1	1.0	48.6	3.9
N07009	N03614/N00844	4	17.8	18.7	45.1	90.4	1.0	52.2	5.5
N07008	N03614/N00844	15	17.6	17.1	44.9	90.0	1.0	49.8	4.5
N05305	N00838/B98304//N00792	18	17.3	20.0	46.1	92.5	1.0	55.2	4.5
N06702	N00809//B95556*2/I93154	7	17.3	21.1	45.5	90.5	1.0	50.4	4.5
I08902	HYLAND T9905(NAVY)	26	17.2	22.8	46.1	91.4	2.0	50.2	4.0
I06271	ND012103, AVALANCHE	25	17.2	22.8	45.0	92.5	1.5	51.8	5.0
N06701	N00838/N00809//N00729	6	17.0	21.3	45.9	92.5	1.0	48.3	4.1
I08903	LIGHTNING NAVY	24	16.7	20.3	45.0	91.0	1.0	48.5	4.0
N04152	N99250 / I00758	14	16.7	20.0	45.5	89.1	1.0	48.5	4.5
N05324	N00838/N00809//N00792	1	16.5	20.1	46.0	90.1	1.0	52.1	5.0
N04604	X01006/B00136	17	16.4	21.8	46.2	92.0	2.0	51.2	4.0
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	3	15.5	20.1	44.0	93.9	1.5	51.6	4.0
N05328	N99219/X00821	19	15.1	20.9	46.0	89.5	1.5	49.1	5.0
N91401	61627/2W33-2//C-20, 1990 MAYFLOWER	16	15.1	20.5	45.5	92.0	2.0	51.2	4.0
N04120	N00838 // N99219 / X00821	21	14.9	19.9	45.5	90.0	1.0	47.7	3.5
N05330	N99219/X00821	20	13.3	19.9	45.1	89.5	1.0	49.0	5.0
N97774	BUNSI/HURON, SEAHAWK	13	13.0	22.0	44.9	89.6	2.0	46.4	3.5
N05355	N03611/B01749	23	10.3	20.0	45.4	92.4	1.0	47.2	3.5
N08014	G93414 *2/I93154//I93153	28	6.5	25.1	44.0	92.9	1.5	46.2	3.0
AVERAGE OF PRECEDING 30 MEANS			17.2	20.5	45.4	91.4	1.3	50.0	4.4
LSD (P=.05)			3.7	0.9	0.5	1.0	0.3	1.3	0.4
LSD (P=.01)			4.8	1.2	0.6	1.3	0.3	1.7	0.5
COEFFICIENT OF VARIATION			15.0	3.2	0.8	0.8	14.6	1.9	6.8

EXPERIMENT 8102 STANDARD BLACK TEST

DATE 06/03/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	9	30.9	21.2	46.0	95.1	2.0	52.9	4.9
B04316	I01891/JAGUAR	4	30.2	23.0	46.5	95.0	2.0	53.3	4.5
B05066	B98304//N99216/I00752	14	29.9	20.4	44.0	90.1	1.5	51.0	5.5
B05040	35-5/JAGUAR*2/SEL 1308//HR45/KABOON	20	28.3	22.6	47.0	94.5	1.5	54.1	5.0
B05054	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	13	27.4	22.3	45.5	94.5	2.0	54.1	5.5
B04452	I01892/JAGUAR	28	26.0	21.7	47.0	96.1	1.5	56.1	4.5
B06309	I02525/B01741	1	25.0	18.8	45.5	92.1	1.5	54.4	4.5
B05070	5-15/PHANTOM*2/SEL 1308//HR45/KABOON	12	24.4	23.3	45.5	93.8	2.0	52.8	4.0
B04644	B98306 // B95556 / I99229	34	23.7	20.7	46.0	90.5	1.0	52.0	5.0
I07116	B201240, SHANIA	35	23.2	20.6	46.0	93.2	2.0	54.5	3.9
B01793	N98123/VAX-5	15	22.8	21.9	46.0	96.0	2.5	53.1	3.0
B04542	I01894/JAGUAR	26	22.7	19.1	47.0	94.1	2.0	52.6	4.0
B04585	B98306 // B95556 *2/I93154	17	22.6	21.6	44.0	91.7	2.0	53.8	4.5
B76003	N2/BTS, DOMINO	16	22.4	21.5	47.5	95.0	2.0	54.0	4.0
B04489	I01894/JAGUAR	24	22.4	20.4	46.5	93.5	1.0	53.1	4.0
B04554	B00103*2 / X00822, ZORRO	2	22.2	20.9	45.5	90.8	1.0	52.6	5.5
I08907	BLACK VELVET	19	21.6	24.5	45.5	94.4	1.5	53.4	3.5
B04544	I01894/JAGUAR	25	21.3	21.6	44.5	91.4	1.5	51.9	3.0
B04607	B95204*3/I93154	7	21.3	22.5	45.5	90.1	1.0	50.4	4.5
B00101	PHANTOM/BLACKJACK, CONDOR	11	21.2	21.9	45.5	92.5	2.0	49.8	4.0
B06311	I02525/B01741	3	21.1	18.0	46.5	90.1	1.0	53.3	4.4
B04439	I01892/JAGUAR	29	20.5	21.6	46.5	94.6	2.0	53.6	3.5
I06257	JET BLACK (CDBN)	36	20.4	23.0	47.5	96.1	2.1	53.3	3.5
B07104	TACANA*/PI 318695(W)	30	20.4	21.1	46.0	92.9	2.0	48.4	3.5
B04492	I01894/JAGUAR	22	20.2	20.7	48.0	90.4	2.0	55.7	3.4
B04591	B00101 / B95556 *2/I93154	8	20.2	22.0	45.5	89.2	1.0	48.8	4.5
B95556	B90211/N90616, JAGUAR	6	19.5	19.6	45.5	90.5	1.0	51.0	3.5
I01892	G24423/2*TACANA, 115-11M	10	19.1	22.2	46.5	94.5	2.0	50.9	3.0
B02546	PHANTOM//JAGUAR/TLP-20	18	18.9	18.9	45.5	91.6	1.6	49.9	3.6
B04610	B00101// B95556 *2/I93154	5	18.8	20.6	45.5	89.7	1.0	48.8	4.0
I81066	SEL-BTS, T39	21	18.3	21.4	46.0	93.6	3.0	42.6	3.0
B04500	I01894/JAGUAR	27	18.3	20.1	48.0	93.5	2.0	48.2	3.0
B07102	TACANA*/PI 313850(L)	31	17.7	21.6	46.5	93.5	2.0	45.8	2.9
B07103	TACANA*/PI 313850(L)	33	17.3	21.1	46.0	91.1	1.5	48.1	3.0
B07105	TACANA*/PI 318695(W)	32	16.1	20.7	46.0	92.5	2.0	47.4	3.0
B04587	B95556 *4/I93154	23	16.1	19.7	45.5	90.5	1.0	46.1	3.5
AVERAGE OF PRECEDING 36 MEANS			22.0	21.2	46.0	92.8	1.7	51.4	4.0
LSD (P=.05)			3.6	0.9	0.7	1.2	0.3	1.4	0.4
LSD (P=.01)			4.7	1.2	0.9	1.6	0.4	1.9	0.5
COEFFICIENT OF VARIATION			11.5	3.2	1.0	0.9	12.0	2.0	6.6

EXPERIMENT 8103 PYT NAVIES AND BLACKS

DATE 06/03/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
N08007	N01792/N03614	7	31.6	20.5	46.0	94.9	2.0	55.3	6.4
B07055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON, B05055 SELE	14	29.0	19.5	46.5	95.6	1.0	55.7	6.1
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	13	28.1	20.3	46.0	94.6	1.5	54.1	5.0
B07554	B00103 // B00103 / X00822, ZORRO SELECT	19	25.7	19.4	45.5	91.1	1.0	55.6	6.0
N05324	N00838/N00809//N00792	17	25.2	19.5	45.0	93.5	1.0	57.0	5.6
N08004	N00844/N02237	4	24.8	18.9	45.5	92.4	1.0	55.8	5.0
N08010	N03614/N00844	10	24.2	17.1	45.5	90.1	1.0	53.5	5.5
B04554	B00103 // B00103 / X00822, ZORRO	18	23.7	19.4	46.0	91.5	1.0	54.2	5.6
N08008	N01792/N02236	8	23.6	17.9	45.5	93.6	1.5	56.5	5.5
N08003	N00844/N02237	3	23.3	22.3	45.5	91.1	1.0	53.9	4.9
N08005	N00844/N02237	5	22.5	20.5	45.0	92.1	1.0	54.8	5.5
N08002	N00844/N02237	2	22.2	20.6	45.0	92.9	1.0	55.5	5.4
N08009	N03614/N00844	9	21.4	18.4	45.0	93.3	1.0	56.8	5.5
N08011	N02302/X03102	11	21.3	18.4	45.5	92.1	1.0	54.3	4.6
B08102	B01792/B02549	16	20.8	21.1	45.0	90.8	1.0	51.1	5.5
B08101	B01741/B03634	15	20.4	21.9	44.5	90.1	1.0	49.4	5.1
N08001	N00838/N01458	1	20.2	17.7	45.5	93.5	1.0	53.6	4.4
N97774	BUNSI/HURON, SEAHAWK	20	19.1	20.4	44.5	92.5	2.5	46.6	3.9
N08012	N03611/X03103	12	17.5	17.7	46.0	92.9	1.0	53.6	5.5
N08006	N03614/N02237	6	17.0	18.8	42.5	90.1	1.0	47.6	4.9
AVERAGE OF PRECEDING 20 MEANS			23.1	19.5	45.3	92.4	1.2	53.8	5.3
LSD (P=.05)			4.7	1.7	0.6	1.1	0.3	2.1	0.6
LSD (P=.01)			6.1	2.2	0.8	1.4	0.4	2.7	0.8
COEFFICIENT OF VARIATION			12.5	5.2	0.8	0.7	15.6	2.4	7.1

EXPERIMENT 8104 STD GREAT NORTHERN TRIAL

DATE 06/03/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G07302	G02646/I02545	2	22.8	37.8	43.5	91.4	2.0	51.7	6.0
G05220	G00536/G99750	3	21.6	44.8	43.5	92.4	2.0	51.5	4.4
G07309	G02646/G02454	10	21.3	39.8	44.5	90.9	2.0	50.4	5.5
G05239	G93414/G99750	1	21.2	40.4	43.5	90.7	1.5	46.7	4.5
G93414	MATTERHORN	21	20.8	36.2	43.4	90.2	2.0	48.5	4.5
G07301	G02646/I02545	8	20.2	38.5	44.5	91.9	1.5	49.9	5.5
G02453	G99750/P97803	6	20.0	37.5	44.0	92.1	2.0	51.8	4.6
G05462	P94207/G93414//P00207	9	20.0	35.3	44.0	92.2	2.1	50.7	5.0
G05246	P94207*/G99750	11	19.7	39.8	44.6	90.6	2.0	50.6	4.5
G06205	G93414*3/I93154//P99120	16	19.6	43.9	45.0	91.3	2.0	51.3	4.9
I07130	PS02-037-7-B2	26	19.4	37.1	44.6	92.0	2.0	51.7	3.5
G04510	G99750//G93414/N00904	14	19.3	37.2	43.0	91.5	2.0	52.3	4.0
G05463	P94207*/G99750	22	18.8	37.4	42.9	89.5	2.0	49.1	4.0
G07305	G02462/I02541	5	18.4	37.0	44.5	90.0	1.5	50.8	4.0
G05242	P94207/P99120//G99750	25	18.3	42.1	44.0	90.0	1.5	49.3	3.0
I07144	NE-1-06-19	27	18.0	40.5	45.5	92.0	3.0	46.3	3.5
G08235	103387/P00227//G02647	30	17.8	36.0	43.5	91.6	1.5	53.4	4.5
G06207	I03387/G93414//G98602	4	17.1	35.8	44.5	90.0	2.0	47.9	4.0
G07317	G02647//P00227/I03386	19	16.9	38.1	44.6	91.8	1.0	52.3	5.5
G08234	103387/P00227//G02647	29	16.8	38.7	44.0	91.6	1.5	51.6	4.5
G07306	G02462/I02541	7	16.7	36.2	43.9	91.2	1.0	51.1	4.0
G08233	103387/P00227//G02647	28	16.7	37.9	43.5	91.1	2.0	53.5	5.5
G02460	MATTERHORN/VAX-1	13	16.4	35.1	44.0	89.1	2.0	47.9	3.6
G07314	G02647//P00227/I03386	23	16.2	37.0	44.0	91.3	1.0	50.9	5.0
G07303	G02462/I02541	18	16.0	36.0	44.6	92.0	2.0	52.2	3.6
G05202	P94207/P99120//G99750	20	15.4	39.4	42.5	91.9	2.0	52.7	3.5
G05212	P94207*/G99750	12	14.8	35.6	45.4	89.4	1.0	46.8	4.0
G07304	G02462/I02541	17	14.8	37.5	44.5	91.4	1.0	49.9	3.6
G07311	G98602/G02462	24	14.7	37.6	44.0	90.6	1.0	48.8	3.6
G07308	G02462/I02541	15	14.4	39.2	44.5	91.4	1.5	51.9	3.9
AVERAGE OF PRECEDING 30 MEANS			18.1	38.2	44.1	91.1	1.7	50.5	4.3
LSD (P=.05)			3.6	2.0	0.6	0.6	0.3	1.2	0.4
LSD (P=.01)			4.6	2.6	0.8	0.8	0.4	1.6	0.6
COEFFICIENT OF VARIATION			13.9	3.8	0.9	0.5	11.2	1.7	7.3

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07406	P00227/I03385//P00207	12	24.7	37.2	45.0	93.0	2.0	54.4	5.1
P07407	P00227/I03385//P00207	30	23.8	32.7	45.0	92.5	2.0	52.6	5.5
P07863	I02545/P02630	38	23.3	40.5	43.0	93.1	2.0	51.1	4.1
I07113	LAPAZ	2	23.2	36.2	46.5	93.0	2.0	53.6	4.0
P05462	P94207/G93414//P00207	4	23.0	33.3	45.0	92.0	1.5	50.6	4.5
P07839	I02545/P02630	40	22.3	35.4	45.0	94.0	2.0	48.1	3.5
P07867	I02545/P02630	42	21.8	33.7	44.0	90.5	1.5	47.2	4.0
P05456	P94207/P00207//P99120	10	21.8	36.0	44.5	90.0	2.5	50.1	4.0
I07139	CO 33546	35	21.8	41.1	47.0	92.9	3.0	47.6	3.0
I06224	PS00-013-1-B-5-B3 (USWA)	19	21.7	43.1	44.5	89.9	2.0	49.1	4.4
I06228	PS01-082-10-B-3-B2 (USWA)	27	21.4	34.5	46.0	92.4	1.0	50.8	4.9
P06130	P02646/P02630	8	21.4	40.1	45.0	89.5	1.0	47.7	5.1
P06129	P02646/P02630	21	21.0	38.9	45.5	89.6	1.5	49.7	4.6
P05405	P94207/P00207//P99120	11	20.8	36.6	45.0	91.5	1.5	49.1	4.5
P05432	P99120/G93414//P00207	29	20.8	38.7	45.0	89.5	2.0	47.3	3.8
P06132	P02646/P02630	28	20.5	37.8	42.5	90.0	1.0	46.6	5.0
I06225	PS00-013-1-B-6-B3 (USWA)	5	20.3	37.3	44.5	89.1	2.0	46.2	3.1
I05834	ND020351, STAMPEDE	36	20.3	39.6	45.0	92.0	1.5	48.7	4.0
P07894	I02545/P02630	41	20.1	36.4	39.5	92.0	2.0	49.9	4.0
I06249	ND020069, LARIAT	37	20.1	40.3	46.0	93.5	2.0	51.2	3.4
P05444	P94207/P99120//G99750	7	20.1	33.7	45.0	91.0	1.5	48.7	4.1
P04205	P99119/G99750, SANTE FE	15	20.0	38.5	44.0	90.0	2.0	48.6	5.5
P06139	P02630//P00227/I03386	18	19.7	36.6	45.5	90.0	2.0	45.6	4.1
P06127	P02646/P02630	23	19.7	39.1	46.0	90.0	1.0	48.7	5.0
P06125	P02646/P02630	1	19.6	35.8	45.5	89.5	1.0	49.3	5.5

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P06114	P99120/G93414//P00207	24	19.4	37.2	44.5	88.5	2.0	47.7	4.0
P05459	P94207/P00207//P99120	32	19.3	32.8	45.5	89.5	1.0	48.6	4.0
P07403	I03360/P02647	14	19.2	43.0	44.5	90.4	2.0	48.3	4.3
P06123	P02647/I03355	22	19.1	38.1	45.0	89.5	2.0	44.1	3.5
P05463	P94207*/G99750	6	19.1	36.4	44.5	89.0	2.0	47.1	4.0
P07405	I03360/P02647	3	19.0	41.6	44.0	89.5	2.0	47.6	3.5
P07402	I03360/P02647	31	19.0	41.9	45.0	89.0	2.0	47.6	4.1
P02630	P99120/MATTERHORN	26	19.0	39.1	44.5	89.0	2.0	44.8	3.4
P06131	P02646/P02630	16	18.5	39.8	45.0	90.0	1.5	49.4	5.0
P06104	P94207/P00207//P99120	20	18.2	36.4	44.5	91.5	1.5	49.9	4.5
P06115	P94207/P00207//G99750	17	17.8	37.5	44.5	88.5	2.0	44.7	3.4
P06126	P02646/P02630	13	17.6	37.6	45.0	89.5	2.0	46.9	4.0
P07404	I03360/P02647	9	17.5	42.2	45.0	89.5	2.0	47.2	3.5
P07806	I02545/P02630	39	16.2	36.7	40.0	89.5	2.0	43.7	3.0
I99117	ASG85-5051-7, BUSTER	33	15.2	35.6	43.0	87.5	3.5	43.6	2.5
P07401	I02545/P02630	25	14.9	33.1	45.5	90.0	2.0	45.1	3.5
I84002	NW410//VICTOR/AURORA,GH215	34	12.6	37.0	36.0	87.4	4.0	39.9	2.4
AVERAGE OF PRECEDING 42 MEANS			19.9	37.6	44.4	90.4	1.9	48.1	4.1
LSD (P=.05)			3.3	2.0	0.5	0.7	0.3	1.4	0.6
LSD (P=.01)			4.3	2.5	0.7	1.0	0.4	1.8	0.8
COEFFICIENT OF VARIATION			11.7	3.7	0.9	0.6	10.7	2.0	10.8

EXPERIMENT 8106 STD PINKS AND REDS TRIAL

DATE 06/0/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
R06413	S01944/R02205	2	26.6	33.4	46.0	94.1	2.5	45.5	4.6
R06415	S01944/R02205	3	24.7	30.6	45.0	95.1	3.0	48.5	4.6
S07501	S00809/I03386//R02205	6	24.4	34.1	46.5	94.6	2.0	52.0	5.5
R06412	S01944/R02205	1	23.5	32.1	45.5	93.8	2.5	47.0	4.4
R06422	R02205//I03386/R98026	7	21.6	29.6	44.0	91.5	1.0	47.5	5.0
I06241	PS00-072-1-B-8-B3 (USWA)	5	19.0	36.3	43.0	89.7	4.0	37.5	2.9
I95322	BROOKS-18(RM), BROOKS	13	18.9	34.9	46.5	94.8	2.5	49.0	3.9
S04505	X99352//X99354/G93414	4	18.9	39.8	45.0	93.5	2.0	52.0	4.6
S04508	X99354//X99354/G93414	18	18.8	41.1	45.0	92.6	2.0	48.5	4.0
R06420	S01944/R02205	9	18.8	30.3	45.5	92.9	1.0	47.0	4.5
S06401	S00802/R97003	12	18.5	36.8	45.0	92.0	2.0	48.5	4.0
S04504	X99352//X99354/G93414	8	18.5	40.3	44.5	92.9	2.0	51.0	5.4
S00809	R94142/X94076, SEDONA	11	17.4	34.8	44.5	90.7	2.5	49.0	4.1
S06407	I03916/S00802	16	17.1	40.6	42.0	90.5	3.0	43.0	2.9
I07118	PK 7-4	19	16.3	33.9	42.0	88.9	3.5	38.5	3.1
R98026	R94037/R94161, MERLOT	10	15.5	37.7	45.5	92.2	2.0	53.0	4.5
R08026	R94037/R94161, MERLOT RESELEC	20	15.4	36.8	45.0	92.3	2.0	52.0	4.5
I06240	PS00-072-1-B-2-B3 (USWA)	14	14.9	35.2	41.5	90.1	3.0	43.0	2.9
I06243	PS00-092-3-B5 (USWA)	15	14.3	33.9	43.0	88.0	2.0	43.5	3.5
R02002	R94026/X96024//R95429/X96034	17	13.9	34.7	45.0	91.0	1.0	50.5	4.0
AVERAGE OF PRECEDING 20 MEANS			18.9	35.3	44.5	92.1	2.3	47.3	4.2
LSD (P=.05)			3.8	2.0	0.5	0.6	0.3	2.0	0.5
LSD (P=.01)			5.0	2.7	0.6	0.8	0.4	2.6	0.6
COEFFICIENT OF VARIATION			14.4	4.1	0.7	0.5	9.2	2.9	7.9

EXPERIMENT 8107 STD TEBO TRIAL

DATE 06/03/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G06211	G93414//G00536/N00760	10	21.7	29.3	45.0	91.0	1.5	49.5	6.0
G06209	G93414//G00536/N00760	4	21.1	29.5	45.0	92.1	2.1	50.5	5.5
G07321	G93414//G00536/N00760	8	18.3	25.6	43.5	91.0	1.1	47.5	5.0
G07324	G93414//G00536/N00760	7	17.9	26.9	44.0	91.0	1.0	49.5	5.5
G06212	G93414//G00536/N00760	9	17.4	28.6	44.5	91.5	1.5	49.0	5.0
I03388	HIME TEBO	2	17.0	29.0	45.0	93.0	1.9	45.0	4.0
G07322	G93414//G00536/N00760	11	17.0	26.0	42.5	89.9	1.0	48.0	5.5
G07323	G93414//G00536/N00760	5	14.5	25.6	45.0	90.5	1.5	48.0	5.0
G06210	G93414//G00536/N00760	12	14.3	27.3	44.5	91.5	1.5	48.0	5.0
G07320	G93414//G00536/N00760	6	14.2	25.7	43.5	90.5	1.0	47.0	5.0
G05915	HIME TEBO*4/MATTERHORN	3	14.1	26.9	42.5	92.0	1.9	45.0	4.0
G05922	HIME TEBO*4/MATTERHORN, FUJI	1	12.2	25.9	44.0	91.5	1.9	45.5	4.0
AVERAGE OF PRECEDING 12 MEANS			16.6	27.2	44.1	91.3	1.5	47.7	5.0
LSD (P=.05)			4.4	1.6	0.8	0.6	0.3	1.3	0.6
LSD (P=.01)			5.8	2.0	1.0	0.7	0.3	1.7	0.7
COEFFICIENT OF VARIATION			18.9	4.1	1.3	0.4	12.1	1.9	8.2

EXPERIMENT 8109 GREAT NORTHERN PYT-2

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G08254	G04514/G93414	10	30.9	35.8	42.5	89.0	2.0	49.4	4.5
G08259	G04517/G02647	15	30.2	37.5	43.0	89.0	1.5	50.4	4.5
G08284	P05463/P04207	40	30.0	37.9	43.0	88.9	2.0	48.5	4.5
G08275	G05463/I06206	31	29.2	37.0	44.0	90.5	2.0	48.9	5.0
G08262	G98601/G04514	18	28.7	36.9	42.5	88.5	2.0	50.0	5.0
G08274	G05463/I06206	30	28.7	38.1	43.5	90.1	2.0	49.5	5.5
G08268	G05241/I06206	24	28.3	33.0	42.9	88.5	2.0	46.1	4.5
G08247	G98602/G02647	3	28.1	37.7	41.5	90.1	2.0	50.6	4.5
I07144	NE-1-06-19	41	27.9	40.1	44.0	94.0	3.0	43.1	3.0
G08245	G98601/I03354	1	27.8	36.6	43.5	88.5	2.0	48.6	4.0
G08258	G04517/G02647	14	27.7	37.6	42.5	89.1	2.0	49.0	4.0
G08276	G05463/I06206	32	27.7	38.2	42.5	90.0	2.0	49.0	4.5
G08256	G04514/G93414	12	27.2	35.7	42.5	88.5	2.0	51.0	4.5
G08263	G98601/G04514	19	27.2	37.3	42.5	89.9	2.5	48.9	4.5
G08250	G98601/G04517	6	26.7	36.9	42.5	88.9	2.0	48.5	4.0
G08260	G04517/G02647	16	26.7	36.4	42.5	89.0	2.0	48.5	4.0
G08261	G98601/G04514	17	26.5	37.9	42.5	89.0	1.5	48.6	4.5
G08264	G98601/G04514	20	26.5	35.8	42.5	89.0	2.0	50.6	4.5
G08249	G98602/G02647	5	26.3	38.0	44.0	91.5	2.0	51.9	5.0
G08251	G98601/G04517	7	25.9	34.8	42.5	88.5	2.0	49.0	4.5
G08266	G04517/G98601	22	25.8	36.6	43.5	89.0	1.5	47.7	4.5
G08278	G05241/I06206	34	25.6	32.8	43.5	90.0	1.5	49.0	5.5
G08248	G98602/G02647	4	25.5	35.5	42.5	89.5	2.0	48.5	4.5
G08267	G05241/I06206	23	25.5	34.0	43.0	89.1	2.0	46.9	4.0
G08282	G05241/I06206	38	25.4	33.0	42.5	89.0	1.5	44.5	4.5

EXPERIMENT 8109 GREAT NORTHERN PYT-2

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G08246	G98601/I03354	2	25.4	38.6	42.0	89.0	2.0	48.9	4.5
G08253	G98601/G04517	9	25.4	38.0	42.5	89.0	1.5	49.5	5.0
G93414	MATTERHORN	42	25.1	36.9	43.0	92.5	2.0	48.0	4.0
G08280	G05241/I06206	36	25.1	33.8	42.5	88.5	2.0	46.6	4.0
G08265	G98601/G04514	21	25.1	37.0	42.4	89.5	2.5	47.6	3.5
G08252	G98601/G04517	8	25.0	36.9	43.0	88.0	1.5	47.7	4.0
G08273	G04207/I02545	29	24.9	33.2	43.0	89.0	2.0	46.0	4.5
G08269	G05241/I06206	25	24.7	33.8	42.5	89.5	2.0	47.1	4.5
G08255	G04514/G93414	11	24.7	35.7	42.5	88.0	1.5	49.0	4.0
G08281	G05241/I06206	37	24.7	34.4	42.0	88.5	2.0	49.0	5.0
G08277	G05241/I06206	33	24.6	35.4	42.5	90.0	1.5	47.5	5.0
G08271	G04207/I02545	27	24.4	42.9	42.0	90.0	2.0	48.5	4.5
G08257	G04514/G93414	13	24.3	38.6	42.0	90.9	1.5	48.9	4.5
G08283	G05241/I06206	39	24.1	33.4	42.0	89.5	2.0	48.0	5.0
G08272	G04207/I02545	28	24.0	43.4	42.0	89.0	2.0	47.4	4.5
G08270	G04207/I02545	26	23.9	43.5	42.0	90.0	2.0	50.5	5.5
G08279	G05241/I06206	35	22.8	33.4	42.0	89.0	2.0	46.4	3.5
AVERAGE OF PRECEDING 42 MEANS			26.3	36.7	42.7	89.5	1.9	48.4	4.5
LSD (P=.05)			4.8	2.4	0.7	1.4	0.4	1.8	0.7
LSD (P=.01)			6.3	3.1	0.9	1.8	0.5	2.3	0.9
COEFFICIENT OF VARIATION			11.3	4.0	1.0	1.0	13.1	2.3	9.1

EXPERIMENT 8110 PINTO PYT-1

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P08339	X05129/P02646	44	26.3	41.4	42.5	89.5	1.5	51.5	5.5
P08349	P02630/X05106	54	24.9	38.6	43.0	88.5	2.0	48.0	4.0
P08312	I04324/P02646	12	24.8	41.7	43.5	90.9	2.0	52.4	5.0
P08351	P02630/X05106	56	24.2	38.4	43.5	89.0	2.0	48.4	4.1
P08308	I03360/P02630	8	23.8	38.4	43.5	91.5	1.0	50.5	4.5
P06125	P02646/P02630	24	23.8	39.8	43.5	90.0	1.5	48.1	4.5
P08327	X05129/P02646	32	23.6	39.3	43.0	89.5	1.5	49.1	5.0
P08350	P02630/X05106	55	23.5	38.5	43.5	88.5	2.0	47.4	4.0
I07113	LAPAZ	25	23.4	40.0	46.0	92.5	2.0	52.6	4.0
P07751	I02545/P02647	21	23.0	35.4	42.5	93.0	2.0	52.3	4.0
P08316	P02646/P02627	16	22.8	40.2	43.5	90.0	1.0	51.3	5.0
P08329	X05129/P02646	34	22.7	40.2	44.0	89.5	1.5	49.6	5.6
P08352	P00226/P05410	57	22.5	39.0	43.0	89.5	1.0	47.8	4.5
P08325	P00218/X05129	30	22.4	40.8	42.5	91.5	2.0	53.3	5.0
P08320	P00226/P02627	20	22.4	40.3	43.0	90.0	1.0	49.9	5.0
P08348	P02630/X05106	53	22.4	38.8	44.0	88.5	2.0	47.5	4.0
P08321	I03386/P02647	26	22.3	45.1	44.0	89.5	1.5	50.1	4.5
P08340	X05129/P02646	45	22.2	38.6	43.5	89.5	1.0	48.1	4.5
P08307	I02545/P02630	7	21.5	43.0	43.5	88.0	2.0	44.9	4.0
P08319	P00226/P02627	19	21.3	40.0	44.5	86.5	1.0	49.2	4.6
P08337	X05129/P02646	42	21.1	40.1	43.0	89.5	1.5	49.5	5.0
P08346	P02630/X05105	51	21.1	39.3	43.0	88.0	2.0	45.9	4.0
P08323	P00218/X05129	28	20.9	42.9	43.5	91.5	1.5	47.6	4.0
P04205	P99119/G99750, SANTE FE	64	20.6	42.0	43.0	91.0	2.0	47.8	5.0
P08331	X05129/P02646	36	20.4	38.5	43.5	89.5	1.5	50.6	5.0

EXPERIMENT 8110 PINTO PYT-1

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07740	I02545/P02647	23	19.8	44.7	43.5	91.0	2.0	49.5	4.0
P08353	P00226/P05410	58	19.6	37.7	42.5	87.5	1.0	47.1	4.5
P08310	I04324/P02646	10	19.6	42.1	43.0	90.5	2.0	51.8	4.9
P08357	P00226/I02545	62	19.6	36.5	43.0	88.5	1.0	49.0	5.0
P08354	P00226/P05410	59	19.6	39.0	42.5	89.5	1.0	49.0	5.0
P08330	X05129/P02646	35	19.4	37.9	43.5	90.5	1.5	52.0	5.0
P08336	X05129/P02646	41	19.2	41.8	43.5	89.5	1.0	51.3	5.5
P08311	I04324/P02646	11	19.1	41.9	43.0	90.0	1.5	51.8	4.5
P08326	X05129/P02646	31	19.1	39.7	43.0	89.5	1.0	49.6	5.0
P08313	I03387/P00207//G02451	13	19.0	40.0	43.5	89.5	1.0	50.3	4.5
P08344	P02630/I03386	49	18.8	42.3	43.0	89.0	1.5	49.5	5.0
P07757	I02545/P02647	22	18.6	36.7	44.5	92.5	1.0	50.2	4.0
P08355	P00226/I02545	60	18.6	38.4	42.5	88.5	1.0	47.4	4.0
P08306	P99120/G93414//P00207	6	18.0	39.4	44.5	89.0	2.0	46.0	4.5
P08334	X05129/P02646	39	17.9	38.0	43.5	89.1	1.0	47.3	4.5
P08324	P00218/X05129	29	17.9	41.1	43.0	89.5	2.0	48.6	4.0
P08301	P94207/P99120//G99750	1	17.8	41.3	44.1	89.5	2.0	47.1	4.0
P08314	I03387/P00207//G02451	14	17.8	40.8	43.0	91.5	2.0	53.0	5.0
P08343	P02630/I03386	48	17.5	42.6	43.5	91.0	1.5	51.8	5.0
P08333	X05129/P02646	38	17.5	39.4	44.0	88.5	1.0	48.3	4.6
P08345	P02630/X05106	50	17.3	40.5	44.0	88.0	2.0	45.4	4.0
P08342	P02630/I03386	47	17.1	42.8	43.0	92.0	1.5	50.5	4.5
P08309	I04324/P02646	9	17.0	42.3	43.0	89.5	1.0	50.2	4.5
P08315	P02647/I03387//P00227	15	16.8	45.8	46.5	92.0	2.0	54.5	3.9
P08338	X05129/P02646	43	16.7	38.8	44.0	92.0	1.0	50.4	4.5

EXPERIMENT 8110 PINTO PYT-1

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P08341	P02630/I03386	46	16.6	41.6	44.0	91.5	1.0	49.5	4.5
P08322	P00218/X05129	27	16.6	43.9	42.5	90.5	2.0	49.9	4.0
P08328	X05129/P02646	33	16.4	38.8	42.5	88.5	1.0	46.5	4.5
P08332	X05129/P02646	37	16.1	37.5	42.5	89.5	1.0	49.2	5.0
P08304	P94207/P99120//G99750	4	16.1	40.7	43.5	90.0	2.0	47.4	3.9
P08347	P02630/X05105	52	16.0	39.6	43.5	88.0	2.0	45.4	4.0
P08335	X05129/P02646	40	15.7	38.9	44.0	90.5	1.5	50.0	4.9
P08317	P00227/I03386//G02646	17	15.5	35.7	43.5	91.5	1.0	52.4	4.0
P08358	P00226/I02545	63	15.4	38.8	43.0	89.0	1.0	48.4	4.4
P08302	P94207/P99120//G99750	2	15.4	41.4	43.5	89.0	1.5	46.2	4.6
P08303	P94207/P99120//G99750	3	14.9	42.1	43.5	90.0	2.0	46.9	4.0
P08318	P00226/P02627	18	14.1	39.0	43.5	88.9	1.0	46.5	4.5
P07782	I02545/P02647	61	13.9	41.9	44.0	92.0	2.0	47.2	4.0
P08305	P94207/P99120//G99750	5	13.9	41.9	44.0	90.5	2.0	46.3	4.0
AVERAGE OF PRECEDING 64 MEANS			19.4	40.2	43.4	89.9	1.5	49.2	4.5
LSD (P=.05)			7.5	2.1	0.8	1.6	0.4	1.9	0.6
LSD (P=.01)			9.7	2.8	1.0	2.1	0.5	2.5	0.7
COEFFICIENT OF VARIATION			23.6	3.2	1.1	1.1	16.1	2.4	7.6

EXPERIMENT 8111 PINTO PYT-2

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P08362	P04205/I06203	5	27.4	36.9	44.5	92.0	2.0	54.0	5.0
P08401	P05463/I06206	44	27.4	37.0	43.5	89.9	1.0	49.5	4.9
I07113	LAPAZ	55	27.1	36.4	45.5	91.9	2.0	53.3	4.0
P08372	P05410/P04205	15	26.5	36.0	43.0	89.7	1.5	50.0	5.1
P08369	P05410/P04205	12	26.2	36.8	44.0	90.3	1.1	49.5	4.5
P08393	P05463/P04202	36	25.9	34.6	42.5	90.7	2.0	50.0	5.0
P08381	I02545/B04588	24	25.6	38.6	44.0	91.7	2.0	50.1	5.1
P08382	I02545/B04588	25	25.4	36.6	43.0	91.6	2.0	51.5	4.5
P08403	P05463/I06206	46	25.0	37.5	43.0	90.5	1.5	50.3	4.9
P08380	I02545/B04588	23	24.7	36.6	43.5	91.4	2.0	51.5	5.5
P08388	P05463/P04207	31	24.5	40.7	43.5	90.8	2.0	52.7	5.0
P08383	I02545/B04588	26	24.3	37.8	44.0	91.6	2.0	50.5	4.5
P08370	P05410/P04205	13	24.2	36.4	43.5	88.3	1.5	48.2	5.1
P08400	P05463/I06206	43	23.8	34.8	43.5	90.1	1.0	48.0	4.9
P08408	P05410/P04203	51	23.6	36.8	43.0	90.2	1.0	50.6	5.5
P08378	P05410/P04207	21	23.4	36.7	44.0	89.5	1.0	49.5	5.7
P08396	P05457/P04204	39	23.3	38.2	43.0	90.5	1.0	51.8	5.4
P08391	P05410/P00225	34	23.0	34.7	43.0	89.8	1.0	51.7	5.0
P08371	P05410/P04205	14	22.7	37.2	44.0	88.6	0.9	48.8	5.0
P08374	P05410/P04207	17	22.6	32.6	43.5	90.3	1.0	50.6	5.5
P08386	P05463/P04207	29	22.4	37.7	43.0	90.5	2.0	52.0	4.1
P08398	P02633/P05410	41	22.3	43.4	42.5	89.6	1.0	48.1	4.5
P08368	P05410/P04205	11	21.8	34.8	44.0	88.8	1.5	68.0	5.0
P08387	P05463/P04207	30	21.8	35.2	43.5	90.5	2.0	51.5	5.5
P08406	P02630/X05105	49	21.8	40.7	43.5	91.0	2.1	47.0	4.0
P08363	P04205/I06203	6	21.7	35.7	43.5	92.4	2.0	53.0	4.1
P08377	P05410/P04207	20	21.6	35.4	44.0	88.0	1.0	48.8	5.1
P08395	P05463/P04202	38	21.5	36.5	43.5	90.6	1.5	50.5	4.9
P08379	I02545/B04588	22	20.9	36.9	43.5	91.6	2.0	51.6	5.1
P08365	P02633/P00225	8	20.7	36.2	42.5	90.3	1.0	48.4	4.0

EXPERIMENT 8111 PINTO PYT-2

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P08364	P02633/P00225	7	20.5	39.5	42.5	89.2	1.0	48.0	5.0
P08402	P05463/I06206	45	20.4	37.0	43.5	88.0	1.0	48.4	5.0
P04205	P99119/G99750, SANTE FE	56	20.1	38.2	43.5	91.1	2.0	49.1	5.0
P08389	P05463/P04207	32	19.8	36.2	43.5	91.6	2.0	51.6	3.9
P08405	P02630/X05105	48	19.3	39.8	43.5	90.0	2.1	47.6	4.5
P08359	P05463/P02633	2	19.1	37.9	43.5	90.4	1.5	49.9	4.9
P08394	P05463/P04202	37	18.9	35.7	44.0	89.3	1.9	47.1	4.9
P08376	P05410/P04207	19	18.6	33.1	43.0	88.5	1.0	48.1	5.0
P08375	P05410/P04207	18	18.6	32.4	43.5	88.8	1.0	47.2	4.5
P08356	P05463/P02633	1	18.4	38.7	43.0	89.3	0.9	48.3	4.5
P08360	P05463/P02633	3	18.4	40.1	42.5	89.5	1.5	48.0	4.4
P08407	P02630/X05105	50	18.4	41.2	43.5	91.7	2.0	48.7	4.1
P08410	G04521/I06206	53	18.3	34.5	43.0	89.0	1.4	47.2	5.0
P08366	P02633/P00225	9	17.8	37.4	44.0	88.1	1.0	47.5	4.6
P08385	P05457/P00225	28	17.7	32.3	43.5	90.2	1.0	47.8	5.1
P08373	P05410/P04205	16	17.6	35.3	44.0	89.4	1.0	47.4	3.9
P08384	P05457/P00225	27	17.4	33.9	43.5	87.8	1.0	47.3	4.9
P08409	P05410/P04203	52	17.3	36.8	44.0	88.5	1.0	48.8	4.5
P08411	G04521/I06206	54	17.2	34.3	42.0	89.2	2.0	46.9	4.0
P08361	P04205/I06203	4	17.2	34.5	45.5	91.8	1.5	50.6	4.6
P08392	P05410/P00225	35	16.7	34.3	44.0	88.5	0.9	47.9	4.9
P08399	P02633/P05410	42	16.1	37.5	42.5	88.9	1.5	48.0	4.9
P08397	P05457/P04204	40	16.1	35.8	44.0	89.0	1.0	47.9	4.5
P08367	P05410/P04205	10	15.6	36.0	43.5	89.5	0.9	47.4	5.0
P08404	P02630/X05105	47	15.3	40.9	43.0	89.6	2.0	46.6	3.9
P08390	I06206/P04203	33	13.2	36.2	44.0	87.8	1.9	45.6	4.0
AVERAGE OF PRECEDING 56 MEANS			21.0	36.7	43.5	90.0	1.5	49.3	4.7
LSD (P=.05)			5.2	2.1	0.7	1.3	0.3	1.8	0.5
LSD (P=.01)			6.8	2.7	1.0	1.6	0.4	2.3	0.6
COEFFICIENT OF VARIATION			15.2	3.5	1.1	0.9	13.9	2.2	6.1

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LOGGING	HEIGHT	DES. SCORE
R08515	R98026/S02753	26	25.2	37.8	45.0	94.0	1.5	58.2	5.0
R08512	R97003//I03385/R98026	23	25.0	37.1	44.0	92.5	1.1	59.2	5.0
S08408	R97003//I03385/R98026	8	24.8	36.9	45.0	92.5	1.5	56.8	5.0
S08410	R98026/S02753	10	24.0	37.3	44.0	92.0	0.9	58.2	5.5
R08026	R94037/R94161, MERLOT RESELECT	33	23.5	37.9	44.0	93.0	2.0	54.1	4.0
R08503	S00809/I03913	14	22.7	39.0	44.0	93.0	2.1	52.6	4.5
S07809	R94142/X94076, SEDONA SELECT	31	20.5	39.0	44.0	92.0	2.0	51.4	4.5
R08513	R98026/S02753	24	20.0	37.4	44.0	93.0	1.0	55.5	5.0
S08441	R98026/S02753	34	19.3	37.5	44.0	93.0	1.0	55.8	5.0
R08504	S00809/I03386//R02205	15	19.2	33.4	43.5	91.5	1.5	52.4	5.5
S08409	R98026/S02753	9	18.7	35.7	44.0	92.0	1.0	55.8	4.5
S08407	S01932/B98307	7	18.6	25.9	44.0	91.5	1.5	48.5	4.0
R08507	S01936/B98307	18	18.6	34.2	43.0	92.5	2.0	50.9	3.5
R08514	R98026/S02753	25	18.3	36.8	43.5	94.5	1.6	56.1	4.0
R98026	R94037/R94161, MERLOT	30	18.2	38.0	44.0	93.5	2.1	52.1	4.0
S08403	S00809/S04501	3	17.8	38.3	44.0	92.0	2.0	51.1	4.0
R08516	R98026/S02753	27	17.8	36.8	44.5	92.5	0.9	54.2	5.0
I95322	BROOKS-18(RM), BROOKS	32	17.4	34.5	44.5	94.0	2.5	51.4	4.0
S08406	S00809/I03386//I02205	6	17.1	33.9	43.0	93.5	1.5	49.5	4.5
R08517	R98026/S02753	28	16.7	36.5	44.5	93.5	1.9	52.8	4.0
S08401	S04501/S00803	1	16.6	36.9	43.5	93.0	1.9	50.7	5.0
R08511	R97003//I03385/R98026	22	16.3	39.4	42.5	94.5	1.5	52.0	3.0
R08508	S01936/B98307	19	16.1	31.8	42.5	88.5	1.5	50.0	3.5
S08402	S04501/S00803	2	15.6	30.9	44.0	91.5	2.0	49.8	4.5
R08509	R97003//I03385/R98026	20	15.5	38.3	43.0	94.0	1.0	52.5	3.0
S00809	R94142/X94076, SEDONA	29	15.5	36.1	43.5	90.0	2.0	48.0	4.5
S08404	S02755/S04501	4	15.0	32.3	44.5	92.5	2.0	49.7	4.5
I06243	PS00-092-3-B5 (USWA)	36	14.3	35.5	43.0	90.5	2.4	45.8	3.0
S08411	R98026/S02753	11	13.1	39.6	42.5	92.0	2.0	48.3	4.5
I07118	PK 7-4	35	13.1	35.5	42.0	89.5	3.0	45.3	3.0
R08510	R97003//I03385/R98026	21	11.7	39.9	42.0	94.0	1.5	50.3	3.0
R08502	B98307/S01936	13	11.2	37.3	44.0	89.0	2.0	50.9	5.0
R08506	S01932/B98307	17	10.8	32.8	42.5	89.0	2.1	48.5	4.0
R08505	S01932/B98307	16	9.8	35.6	43.0	92.0	2.1	54.3	4.0
S08405	S00809/I03913	5	9.5	37.8	43.5	90.0	2.0	48.8	4.5
R08501	B98307/S01936	12	6.9	35.5	43.0	89.0	1.0	49.4	4.0
AVERAGE OF PRECEDING 36 MEANS			17.1	36.1	43.6	92.1	1.7	52.0	4.3
LSD (P=.05)			6.5	2.9	0.6	1.3	0.4	1.8	0.6
LSD (P=.01)			8.5	3.8	0.8	1.7	0.6	2.3	0.7
COEFFICIENT OF VARIATION			23.4	5.0	0.8	0.9	15.6	2.1	8.1

EXPERIMENT 8113 PINKS AND SMALL REDS PYT-2

DATE 60/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
S08439	S02754/X05143	50	25.4	34.8	43.0	92.4	1.6	49.8	4.5
S08418	S02754/S04503	21	24.4	36.4	44.0	92.1	1.5	53.2	5.0
S08413	S02755/S04503	16	23.9	31.5	43.5	92.5	1.5	48.9	3.5
S08423	S04503/X05143	26	23.8	43.2	43.5	93.1	2.1	53.1	4.0
S08434	S02068/S04503	37	23.7	41.3	43.6	94.1	1.5	53.2	5.5
S08419	S02754/S04503	22	23.7	37.2	44.0	93.5	2.0	49.2	4.0
S08422	S04503/X05143	25	23.6	42.7	43.0	94.0	2.0	53.5	5.0
R98026	R94037/R94161, MERLOT	56	23.5	39.2	43.5	93.3	2.1	50.5	4.0
S08416	S02755/S04503	19	23.4	29.9	43.5	91.9	2.0	48.6	4.0
S08420	S02754/X05143	23	23.1	34.7	43.5	93.1	2.1	51.0	4.0
S08425	S04503/X05143	28	22.8	42.6	43.5	92.5	1.5	53.8	4.5
R08541	R98026/X05139	53	22.7	38.5	44.0	93.5	1.9	51.2	4.0
S08421	S02754/X05143	24	22.6	35.3	43.5	92.0	2.0	51.0	4.0
R08542	I04310/R98026	54	22.3	38.0	44.5	92.1	2.0	52.0	4.0
S08414	S02755/S04503	17	21.8	31.9	44.0	91.5	2.0	49.5	4.0
S08417	S02755/S04503	20	20.8	29.8	43.0	91.5	2.0	48.6	3.5
S00809	R94142/X94076, SEDONA	55	20.3	35.9	43.5	89.9	2.6	49.0	4.0
S08437	S00809/I06202	40	20.2	37.3	42.5	93.1	2.0	52.7	4.5
R08535	R02002/R97003	45	20.2	34.7	44.5	90.6	1.5	52.2	4.5
S08412	S02755/S04503	15	20.0	30.3	44.0	90.5	1.5	48.0	4.0
S08435	S02068/S04503	38	19.8	39.0	43.0	91.6	2.1	54.5	4.0
S08427	S04512/S04503	30	19.3	39.7	44.0	92.5	2.2	50.6	4.0
S08436	S02068/S04503	46	19.1	34.9	44.5	89.5	1.5	50.0	4.0
S08433	S04512/S04503	36	18.9	40.7	42.5	91.9	1.5	47.3	4.5
R08519	X05140/I04310	2	18.8	39.3	41.5	91.9	2.5	49.1	4.5
S08431	S04512/S04503	34	18.7	39.3	43.0	91.5	2.0	50.4	4.5
R08523	X05140/I04310	6	18.1	38.7	43.0	91.0	2.5	48.0	4.0
R08518	X05140/I04310	1	17.9	38.5	42.5	91.0	2.5	50.1	4.5
R08533	R98026/I06201	43	17.8	27.8	43.0	91.5	2.1	49.9	4.5
R08531	X05140/X05145	14	17.1	39.3	41.5	90.4	2.5	51.5	4.0

EXPERIMENT 8113 PINKS AND SMALL REDS PYT-2

DATE 60/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
S08430	S04512/S04503	33	17.1	39.0	43.5	92.6	2.0	50.6	3.5
R08537	R02002/R97003	47	16.9	34.4	44.5	90.0	1.5	54.1	4.0
R08539	X05140/I04310	49	16.5	35.4	42.5	91.5	2.0	51.9	5.0
R08540	R98026/X05139	52	16.4	38.9	44.0	92.0	2.0	52.0	4.0
S08415	S02755/S04503	18	16.1	30.6	43.5	91.5	1.9	50.8	4.0
R08526	X05140/X05145	9	16.0	40.4	42.0	92.1	2.5	49.2	3.5
S08424	S04503/X05143	27	15.9	42.4	43.5	93.5	1.9	52.1	3.5
S08440	S04503/X05143	51	15.4	41.6	43.5	93.4	1.9	66.5	4.5
R08525	X05140/X05145	8	15.3	37.9	43.0	91.5	2.6	47.6	4.0
S08426	S04512/S04503	29	15.3	38.6	44.0	92.5	2.5	51.0	4.5
R08534	R98026/R02002	44	15.1	33.6	44.5	90.6	1.5	53.5	4.0
S08436	S02068/S04503	39	14.7	38.0	44.0	91.9	2.0	52.6	4.0
R08530	X05140/X05145	13	14.4	37.5	42.5	90.0	2.0	49.1	4.5
R08528	X05140/X05145	11	14.1	38.6	41.5	93.0	2.0	51.1	4.5
R08521	X05140/I04310	4	13.6	37.8	42.0	91.0	2.0	49.1	3.5
S08428	S04512/S04503	31	12.8	39.2	44.0	92.4	2.0	49.9	3.5
R08524	X05140/I04310	7	12.8	39.8	42.0	91.5	2.0	50.4	5.0
S08432	S04512/S04503	35	12.5	40.7	44.0	91.6	1.9	49.1	4.0
S08429	S04512/S04503	32	12.5	38.6	43.5	92.5	1.9	51.7	4.0
S08438	S00809/I06202	41	11.9	36.4	42.0	93.5	1.9	53.1	4.0
R08526	X05140/X05145	10	9.3	40.1	42.0	89.6	2.0	48.5	3.5
R08538	X05140/I04310	48	8.9	39.0	42.5	92.0	1.9	52.2	4.0
R08532	R98026/I06201	42	8.8	24.7	43.5	91.0	1.4	45.0	3.0
R08520	X05140/I04310	3	8.8	36.6	42.0	91.0	1.9	50.1	4.0
R08522	X05140/I04310	5	8.4	36.7	42.0	89.9	1.9	47.9	4.0
R08529	X05140/X05145	12	7.1	36.6	42.5	91.0	1.4	51.0	4.0
AVERAGE OF PRECEDING 56 MEANS			17.6	37.1	43.2	91.8	2.0	50.9	4.1
LSD (P=.05)			4.8	2.2	0.8	1.5	0.5	3.5	0.6
LSD (P=.01)			6.2	2.9	1.0	1.9	0.6	4.6	0.8
COEFFICIENT OF VARIATION			16.7	3.7	1.1	1.0	14.1	4.2	8.9

EXPERIMENT 8114 RPN & CDBN GN, PINTO, PINK AND SM REDS

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I08913	CO55658(PINTO)	28	26.7	42.8	44.0	95.0	3.0	50.0	3.5
P07863	I02545/P02630	22	25.3	44.0	43.5	93.4	2.5	50.5	4.0
I08918	ND040494-4(PINTO)	35	25.3	38.8	42.0	92.1	3.0	40.4	3.5
P07405	I03360/P02647	21	24.2	42.9	43.0	90.4	2.0	48.4	5.5
I07120	PT 7-1	6	24.0	37.4	40.5	92.1	2.0	51.5	4.0
I06265	6I15, KIMBERLY	12	23.5	35.6	41.5	89.3	4.5	38.5	3.0
P06131	P02646/P02630	42	23.3	40.5	44.0	90.0	1.5	48.5	5.0
G05239	G93414/G99750	17	22.6	43.3	42.5	92.1	2.0	49.6	4.0
G07302	G02646/I02545	18	22.3	41.2	41.5	90.6	2.0	51.0	5.5
I05834	ND020351, STAMPEDE	15	22.1	39.5	43.0	90.8	2.0	52.0	4.5
I08919	ND040111-1(PINTO)	36	22.0	38.3	43.0	87.6	3.0	42.0	3.5
I08901	ISB 1218,(PINTO)	10	21.6	37.4	43.5	90.2	5.0	32.5	1.0
I06249	ND020069, LARIAT	14	21.4	39.4	43.5	93.3	2.5	52.1	3.5
I08909	CO34142(PINTO)	24	21.2	37.2	44.0	95.2	3.0	52.6	3.5
I08912	CO33986(PINTO)	27	21.0	44.5	43.0	91.6	2.5	48.0	4.5
P07806	I02545/P02630	41	20.1	39.7	40.0	89.9	2.0	45.5	4.0
I08915	NE1-07-12(GN)	32	19.3	42.0	43.0	92.1	2.0	50.4	4.5
I08920	NDZ06218(PINTO)	37	19.2	37.9	46.0	93.0	1.5	51.5	5.0
I06259	6I1, SAWTOOTH	2	19.1	45.6	43.0	94.1	3.5	37.5	2.0
P06125	P02646/P02630	20	19.0	39.8	43.5	89.6	2.0	48.1	5.0
I08910	CO24565-10(PINTO)	25	18.6	41.3	43.0	93.6	2.0	50.5	4.0
I08916	NE2-07-10(PINTO)	33	18.6	40.1	43.0	88.7	2.5	43.0	4.0
I07119	PK 7-5	4	18.6	37.4	41.5	89.7	3.0	45.9	3.0
G93414	MATTERHORN	39	18.5	37.8	42.5	90.0	2.0	46.1	4.0
I07142	NE-1-06-12	29	18.4	38.7	41.5	91.2	3.0	46.0	3.5

EXPERIMENT 8114 RPN & CDBN GN, PINTO, PINK AND SM REDS

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I06251	CO23704, CROISSANT	11	17.5	38.4	42.0	91.8	2.5	45.1	3.5
G07309	G02646/G02454	19	17.3	41.1	43.5	91.1	2.0	48.5	3.5
R98026	R94037/R94161, MERLOT	3	17.2	39.4	43.5	92.6	2.0	52.5	4.0
I07146	NE-2-06-8	30	17.1	42.8	41.5	90.2	3.0	45.5	4.0
I98313	CO 51715(PINTO) , MONTROSE	40	16.7	36.1	42.0	84.7	5.0	32.5	1.0
P04205	P99119/G99750, SANTE FE	5	16.6	42.0	42.5	91.4	2.0	48.0	5.0
I08917	ND0020581(GN)	34	16.0	36.8	42.0	93.6	3.0	45.0	3.5
I08914	NE1-07-2(GN)	31	15.9	40.9	43.5	91.3	2.0	52.4	4.5
I08911	CO44458(PINTO)	26	15.6	39.4	44.0	91.8	2.5	49.0	4.0
I08908	CO24972-5(PINTO)	23	14.9	40.1	41.5	90.6	2.0	47.9	4.5
I99117	(PT)ASG85-5051-7, BUSTER	38	14.9	38.2	41.0	86.5	3.5	41.0	3.0
I06262	614, SHOSHONE	13	14.8	35.8	42.0	90.7	3.5	39.9	1.5
I02308	USPT-73(PINTO)	9	14.5	40.6	37.0	89.8	3.5	39.1	2.5
I84002	NW410//VICTOR/AURORA, OTHELL	16	13.5	39.3	36.5	88.0	4.0	37.5	2.0
I07124	616, HUNGERFORD	1	13.0	47.2	41.0	92.6	3.5	40.5	2.5
I07123	ISB 777	7	12.7	39.6	42.0	86.4	4.5	31.1	1.5
I05220	ISB 1131 (CDBN)	8	8.7	39.7	40.0	87.0	4.0	39.5	2.0
AVERAGE OF PRECEDING 42 MEANS			18.9	40.0	42.3	90.8	2.8	45.4	3.6
LSD (P=.05)			4.2	2.5	0.8	1.7	0.5	2.8	0.5
LSD (P=.01)			5.5	3.2	1.0	2.3	0.6	3.7	0.7
COEFFICIENT OF VARIATION			13.7	3.8	1.1	1.2	10.6	3.8	8.9

EXPERIMENT 8115 STD VINE CRAN TRIAL

DATE 06/04/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
C06808	I01800/C03129	1	24.3	56.0	39.0	94.0	2.5	50.0	5.0
I04317	ASGROW 0759 V, CHIANTI	5	23.3	54.8	42.5	92.0	2.0	47.0	4.0
C99833	CARDINAL/K94803, CAPRI	4	22.1	55.4	35.5	92.0	2.0	48.5	5.0
C05625	X01019/C97407//C99833	2	21.7	49.1	43.0	92.0	3.0	43.5	4.5
C06807	I01800/C03129	3	19.6	53.9	41.0	94.0	2.0	36.5	5.0
C06817	X01015/C97407//C99833	7	19.2	53.3	39.5	97.0	3.0	45.5	3.5
C66001	MICRAN	6	19.2	49.3	43.5	95.5	4.5	40.5	4.0
C07403	X03510/C99833	9	18.1	51.7	36.0	93.0	2.0	46.5	4.5
C81008	T HORT	8	17.4	47.9	38.0	88.0	1.5	45.5	4.0
AVERAGE OF PRECEDING 9 MEANS			20.5	52.4	39.8	93.1	2.5	44.8	4.4
LSD (P=.05)			2.7	2.1	0.5	0.7	0.3	4.8	0.3
LSD (P=.01)			3.6	2.7	0.7	1.0	0.5	6.2	0.5
COEFFICIENT OF VARIATION			9.4	2.8	0.9	0.6	9.8	7.6	5.6

EXPERIMENT 8216 STD BUSH CRAN TRIAL

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I06209	USCR-CBB-20	25	38.5	54.5	35.5	93.1	1.0	45.0	3.5
I06208	USCR-CBB-19	24	36.1	55.2	35.5	95.1	1.5	46.6	3.4
C07412	C99833/C03154	17	34.6	55.8	38.0	91.0	1.0	47.4	4.0
C05632	X01021/C81008//C00301	14	30.6	53.6	37.7	92.0	1.5	49.8	4.6
C99833	CARDINAL/K94803, CAPRI	2	30.6	60.9	34.8	93.8	1.5	51.3	4.5
I07126	BD 1003	26	29.3	60.9	34.9	90.5	2.4	44.0	3.0
C00302	92-197-02-14/CARDINAL	4	29.2	54.6	36.9	92.6	1.4	46.2	4.0
C07403	X03510/C99833	1	29.0	59.0	35.4	95.1	1.4	51.0	4.5
I07125	BD 1002	27	29.0	59.1	36.5	93.0	1.5	47.2	4.5
C07411	X03516/C99804	10	28.3	57.5	38.2	94.1	1.0	43.3	3.9
C05631	X01021/C81008//C00301	8	28.2	57.2	37.9	92.0	1.0	45.3	3.5
C07404	X03517/I01800	23	27.9	60.9	36.9	95.0	1.5	48.9	4.0
C07401	C99804/C03164	15	27.7	55.1	38.4	92.0	2.0	45.6	3.5
C06815	C99804/X03512	18	27.3	58.8	35.4	91.9	1.0	48.3	4.5
C03142	C97407 2* NEGRO SAN LUIS-52	7	26.9	55.9	38.0	92.1	1.6	46.7	3.5
I99149	B386ASGROW,CRAN, HOOTER	29	26.3	60.1	38.8	97.5	1.9	47.0	3.0
C06814	C99833/C03151	3	26.2	61.1	38.0	95.1	1.0	47.0	5.0
C99806	CARDINAL/C93212	22	26.0	53.8	35.1	94.0	1.6	48.8	4.5
C07410	X03516/C99804	5	25.4	59.8	38.8	95.5	1.5	48.8	4.0
C07414	X03511/I01800	20	25.3	52.8	36.9	92.9	1.5	47.1	4.0
C07413	X03511/I01800	16	24.4	51.9	37.1	91.0	1.5	48.3	4.0
C06812	C99833/C03151	12	24.4	59.5	38.3	95.1	1.0	46.4	4.5
C05647	X01022/C81008//C99833	9	23.5	58.1	37.1	94.0	1.0	46.3	4.6
C07409	X03513/C99833	6	23.4	60.2	34.8	94.5	2.0	50.9	4.6
C07407	X03513/C99833	19	23.3	63.8	36.0	96.4	2.0	48.5	4.0
I07132	C41308B-2-B	28	22.1	64.4	35.1	90.9	1.6	45.0	3.0
C05617	X01019/C97407//C99804	11	21.6	56.0	37.7	92.4	1.0	44.7	4.0
C81008	T HORT	21	20.9	51.8	39.4	90.5	1.6	46.8	3.0
C81004	CRAN 425, CARDINAL	30	17.6	59.4	38.5	92.9	1.6	45.2	3.5
C07408	X03513/C99833	13	17.2	58.4	38.9	100.1	2.0	51.3	3.5
AVERAGE OF PRECEDING 30 MEANS			26.7	57.7	37.0	93.5	1.5	47.3	3.9
LSD (P=.05)			5.7	2.9	0.7	1.1	0.4	1.4	0.5
LSD (P=.01)			7.4	3.8	0.9	1.5	0.5	1.9	0.6
COEFFICIENT OF VARIATION			15.0	3.6	1.3	0.9	19.7	2.2	8.9

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
C08716	C99804/C03151	16	32.8	50.6	39.0	92.0	1.5	48.0	4.5
C08714	X03516/C99804	14	32.5	57.7	37.0	91.5	1.0	48.0	5.0
C08712	X03516/C99804	12	32.2	53.8	36.0	92.0	1.0	48.6	4.5
C08710	X03516/C99804	10	31.9	54.1	37.5	93.5	1.0	48.4	4.0
C08711	X03516/C99804	11	31.9	58.2	36.5	92.5	1.0	48.5	4.0
C08713	X03516/C99804	13	31.6	53.4	36.5	91.5	1.5	48.0	4.5
C08715	C99804/C03151	15	30.6	50.4	37.5	94.0	1.0	46.3	4.5
C08708	X03516/C99804	8	30.1	54.8	37.0	91.5	1.0	48.2	4.5
C08702	C99804/C03164	2	29.9	55.6	37.0	91.5	2.0	47.4	4.0
C08709	X03516/C99804	9	29.5	53.6	36.0	91.5	1.5	48.6	4.5
C08701	C99804/C03164	1	28.9	53.6	37.5	92.5	1.5	47.0	4.0
C08726	C99833/I06210	26	28.8	62.9	36.0	95.0	2.0	50.0	4.0
C08722	C99833/I06210	22	27.4	58.9	35.0	94.0	1.0	50.5	5.0
C08705	C99804/X03594	5	27.4	57.2	36.0	92.5	1.0	48.9	5.0
C08725	C99833/I06210	25	26.7	59.4	36.0	94.5	2.0	50.9	4.0
C08706	C99804/X03594	6	26.6	59.0	36.0	91.5	1.5	47.7	5.0
C08703	C99804/C03164	3	26.6	55.2	38.0	91.0	1.5	47.4	4.0
C08724	C99833/I06210	24	25.9	58.0	35.0	93.5	1.0	48.4	4.5
C99833	CARDINAL/K94803,CAPRI	35	25.4	59.3	35.0	93.5	1.5	49.1	4.5
C08704	C99804/C03164	4	24.4	55.8	36.0	92.0	1.0	48.4	4.0
C08707	X03513/C99804	7	24.4	49.5	36.5	92.0	1.0	47.1	4.0
C08723	C99833/I06210	23	23.9	60.7	36.5	95.0	2.0	50.8	4.0
C08719	C05622/I06208	19	21.4	54.8	34.5	92.0	1.5	46.8	4.0
C08721	C05622/I06208	21	20.7	54.5	34.0	91.0	1.0	45.0	4.0
I08926	FR-07-AZP-14(07T6014)	32	20.3	42.8	41.0	93.5	2.0	48.1	3.5
I08927	FR-07-AZP-16(07T6016)	33	20.3	45.8	41.5	90.5	2.0	47.8	3.5
C08717	C05622/I06208	17	19.9	56.2	34.5	92.0	1.0	46.8	4.0
I08924	FR-07-AZP-12(07T6012)	30	18.8	43.2	41.5	95.0	2.0	48.6	4.0
I08925	FR-07-AZP-13(07T6013)	31	18.6	42.0	41.5	96.5	2.0	48.8	4.0
C08720	C05622/I06208	20	17.8	55.6	34.0	93.0	1.0	46.4	4.0
C08718	C05622/I06208	18	16.7	52.1	34.0	91.5	1.0	45.8	4.0
I08928	FR-07-AZP-20(07T6020)	34	15.2	44.8	39.0	92.0	3.0	45.5	2.5
I06275	AZUFRADO HIGUERA	36	13.4	36.5	38.0	90.5	1.5	46.8	2.5
I08923	FR-07-AZP-08(07T6008)	29	8.8	35.7	40.5	90.0	3.0	44.7	1.5
I08922	FR-07-AZP-04(07T6004)	28	3.4	39.8	41.5	103.0	1.5	49.3	1.0
I08921	FR-07-AZP-01(07T6001)	27	1.8	38.8	40.5	97.5	1.5	46.7	2.5
AVERAGE OF PRECEDING 36 MEANS			23.5	52.1	37.2	93.0	1.5	47.9	3.9
LSD (P=.05)			3.3	3.0	0.8	1.3	0.5	1.3	0.6
LSD (P=.01)			4.3	3.9	1.1	1.7	0.6	1.7	0.8
COEFFICIENT OF VARIATION			8.6	3.5	1.3	0.9	18.8	1.7	9.5

EXPERIMENT 8218 STD KIDNEY TRIAL

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK SE	4	41.0	54.3	36.4	97.0	1.5	48.9	4.0
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	8	40.3	58.2	37.0	99.0	2.0	49.8	3.9
K06001	I99105/X02151	21	39.9	63.3	36.9	95.0	1.5	44.6	3.5
K06011	K90101/K02601	32	39.4	53.2	37.0	92.5	1.5	46.4	4.5
K06012	K90101/K02601	24	38.6	53.5	35.0	94.0	1.5	46.1	4.0
K07305	K90101/K02601	31	38.1	58.1	35.9	94.0	1.0	46.9	4.0
K06610	K90101/K02601	23	37.6	54.8	35.5	97.0	1.0	50.2	5.0
K90101	CHAR/2*MONT, RED HAWK	13	37.0	57.2	35.0	94.5	1.0	47.1	4.5
K06002	MDRK/CN(3)-HBR(NEB#1), MONTCALM SELE	27	37.0	56.1	38.6	99.0	2.0	50.5	4.0
K07711	K03244/I05103	20	36.1	51.3	36.5	94.5	1.5	47.6	4.0
K07921	K03244/I05103	19	36.0	57.9	37.0	97.0	2.0	51.0	5.5
K06619	I00639/K02601	16	35.5	59.6	36.0	97.0	1.5	49.2	5.1
I07137	RH4-1308C-3-B2	33	35.2	55.4	34.9	94.0	1.5	46.5	4.0
K07715	K02601/K01635	40	34.9	53.2	37.5	95.0	1.0	48.1	5.0
K07713	K02601/K01635	17	34.8	57.3	36.5	97.5	1.5	50.5	5.5
K07306	K90101/K02601	25	34.7	56.0	37.5	94.0	1.0	47.6	4.5
K90902	BEA/50B1807//LASSEN, BELUGA	15	34.6	58.0	37.1	98.0	2.0	48.9	3.9
K03242	REDHAWK 2*\NEGRO SAN LUIS-142	5	34.6	50.2	37.5	95.5	2.0	46.6	4.0
K07926	I05102/K03244	26	34.5	74.4	37.5	93.0	1.5	46.5	4.5
K06014	K90101/K02601	35	34.1	53.4	36.5	93.5	1.0	48.7	4.5
I05101	USDK-CBB-15	11	34.1	56.7	36.0	94.0	1.5	47.3	4.5
K94601	CN49242/3*MONT//REDKLOUD, CHINOOK200	7	33.9	55.7	37.0	98.5	1.5	50.1	4.5
K05602	I99105/X02152	1	33.7	47.5	38.0	98.5	1.5	50.0	4.5
K07712	K02601/K01635	22	33.0	55.9	38.0	96.0	2.0	49.0	3.9
I06214	USWK-CBB-17	3	32.5	50.9	36.9	93.0	1.5	44.5	4.5

EXPERIMENT 8218 STD KIDNEY TRIAL

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I90013	(LRK)UCD, CELRK	10	31.5	62.5	34.0	90.0	1.5	44.1	4.0
K07716	K02601/K01635	34	31.3	54.6	37.5	95.5	1.0	49.0	5.0
K07310	I05102/K03244	28	31.3	40.5	39.5	99.0	3.0	46.1	2.0
K07922	K03244/I05103	38	31.1	56.8	37.0	96.5	1.5	49.8	4.5
I06266	773-V98	2	30.7	47.4	36.5	92.5	1.0	48.5	4.0
I08905	OAC LRK, LYRIK	42	30.3	68.1	34.5	90.0	1.0	45.9	4.0
K07309	K74002/K02601	29	29.9	51.2	38.1	98.0	1.5	50.9	4.5
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	9	29.8	51.7	37.0	95.0	2.0	47.4	3.5
I08906	PROSSER LRK, BLUSH	39	29.2	69.8	35.5	103.0	2.5	52.5	3.0
K01234	MUTANT OUT OF REDHAWK, REDCOAT	14	28.6	55.2	36.6	94.5	1.0	47.5	4.5
K03235	REDHAWK 2*\NEGRO SAN LUIS-135	6	27.9	48.4	36.5	95.0	1.5	45.6	4.1
I06213	USWK-CBB-16	18	27.1	49.6	40.0	102.0	2.0	51.0	5.0
K07931	X04304/X04203	37	26.6	59.6	37.1	92.0	2.0	47.5	3.5
I08904	SW LRK 7-ADM,LRK	41	26.5	59.7	35.0	90.0	1.0	47.5	3.5
I07128	D000264	12	25.5	47.6	37.0	90.0	1.0	45.5	4.0
K07918	K99974/X02153	36	24.4	53.9	38.0	101.0	2.0	52.9	4.0
K07927	X04303/X04201	30	6.2	49.1	38.5	103.0	3.0	50.4	2.5
AVERAGE OF PRECEDING 42 MEANS			32.6	55.4	36.8	95.7	1.6	48.2	4.2
LSD (P=.05)			5.7	4.0	0.5	1.1	0.4	1.1	0.5
LSD (P=.01)			7.4	5.2	0.7	1.4	0.5	1.5	0.6
COEFFICIENT OF VARIATION			12.4	5.1	1.0	0.8	18.9	1.7	7.8

EXPERIMENT 8219 BUSH KIDNEY PYT-1

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
K08219	K90101/I05101	46	38.8	61.2	37.0	95.8	1.5	47.5	3.0
K08228	K03271/I05101	55	37.5	49.6	37.1	93.1	1.5	47.0	4.1
K08222	K90101/I05101	49	37.1	54.1	36.5	96.6	2.0	47.0	4.0
K08224	K90101/I05101	51	35.3	54.5	38.0	93.0	1.0	47.0	4.5
K08231	K03271/I05101	58	34.2	61.4	37.0	93.8	1.0	46.0	4.0
K08911	X04301/X04201	29	33.5	72.0	38.5	95.4	1.5	48.5	4.0
K08230	K03271/I05101	57	33.4	53.3	37.0	98.4	2.0	48.5	4.0
K08919	X04307/X04203	37	33.1	57.9	36.5	92.4	1.5	48.0	4.5
K08918	X04307/X04203	36	32.7	59.2	36.6	93.4	1.0	48.0	4.5
K08903	K99974/X02153	21	32.6	56.4	36.0	92.2	1.5	45.5	4.0
K08914	X04307/X04203	32	32.6	55.3	37.5	93.8	1.0	46.0	4.0
K08916	X04307/X04203	34	31.0	55.3	35.9	92.9	1.0	49.0	4.5
K08233	K04601/I05101	60	30.8	56.3	38.0	96.0	1.0	43.5	4.0
K08915	X04307/X04203	33	30.6	55.3	37.5	92.9	1.0	46.5	4.0
K08601	K03240/I05102	16	30.5	53.9	38.1	96.5	1.0	49.0	5.0
K08917	X04307/X04203	35	30.5	57.0	37.5	92.1	1.0	47.5	4.5
K08212	K03240/I05101	12	30.4	55.1	37.0	94.3	2.0	45.0	3.5
K08907	K03244/U05103	25	30.0	52.0	37.5	92.9	1.5	49.0	4.5
K08225	K90101/I05101	52	29.8	60.5	36.5	94.5	1.0	45.5	4.0
K08608	K04604/K03601	42	29.7	51.9	38.0	99.1	2.0	51.0	4.5
K08220	K90101/I05101	47	29.1	58.4	38.0	97.4	1.5	48.0	4.0
K08213	K03240/I05101	13	28.9	54.4	37.5	95.1	2.0	47.5	4.0
K90101	CHAR/2*MONT, RED HAWK	63	28.6	54.0	37.1	94.7	1.0	49.0	4.0
K08905	K03244/U05103	23	28.6	54.7	39.5	92.9	2.0	49.0	3.9
K08232	K04601/I05101	59	28.5	56.7	37.5	94.8	1.0	48.5	4.0
K08204	I02535//K90101/K74002	4	28.3	52.2	38.1	95.1	1.5	48.0	4.5
K08209	K74002/K02601	9	28.3	52.1	38.0	95.9	2.0	48.0	4.0
K08205	I02535//K90101/K74002	5	28.1	50.9	36.5	93.3	1.0	47.5	4.0
K08229	K03271/I05101	56	28.0	53.0	38.0	95.4	1.5	47.5	4.0
K08227	K90101/I05101	54	27.8	54.4	38.0	93.4	1.0	47.0	3.6
K90902	BEA/50B1807//LASSEN, BELUGA	62	27.7	58.6	38.0	97.9	1.0	50.0	4.1
K08211	K74002/K02601	11	27.6	54.7	38.0	97.5	2.0	48.0	3.9
K08904	K03244/U05103	22	27.5	59.8	38.5	99.1	1.5	51.5	3.9
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK	64	27.3	55.0	38.0	98.2	1.5	49.0	3.5
K08218	I05101/K03240	45	27.3	50.1	36.5	94.1	1.5	49.0	4.0

EXPERIMENT 8219 BUSH KIDNEY PYT-1

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
K08217	K03601/I05101	44	27.2	50.8	35.5	94.3	1.0	47.5	3.9
K08234	K04601/I05101	61	27.1	58.5	37.5	94.1	1.0	45.5	3.5
K08210	K74002/K02601	10	27.0	51.9	38.6	96.5	1.5	50.0	4.0
K08906	K03244/U05103	24	27.0	50.4	38.0	92.3	1.0	47.0	4.0
K08908	X04301/X04201	26	26.8	71.0	39.0	93.4	2.5	46.0	3.5
K08223	K90101/I05101	50	26.8	55.1	37.4	92.1	1.5	46.0	3.5
K08203	I02535//K90101/K74002	3	26.8	49.9	38.0	96.0	1.0	48.0	4.0
K08208	K74002/K02601	8	26.3	51.1	38.4	95.4	1.0	47.5	4.0
K08913	K90902/X04201	31	26.2	65.5	40.5	95.9	2.0	48.5	4.0
K08206	K90101/K02601	6	26.1	50.9	36.4	93.9	1.5	45.5	4.0
I08230	PR-0422-39(T-27)	17	25.9	48.4	38.0	100.3	2.0	50.5	4.1
K08202	I02535//K90101/K74002	2	25.7	52.8	37.4	93.7	1.5	47.0	3.5
K08216	K03601/I05101	43	25.7	42.6	36.5	92.1	1.0	44.0	3.5
K08912	K90902/X04201	30	24.8	62.8	39.5	95.0	2.0	47.5	3.5
I08229	PR-0422-41(7-28)	18	24.7	51.0	39.0	100.0	2.0	50.0	4.1
K08606	K02601/K01635	40	24.6	55.2	38.5	98.0	1.5	50.5	5.0
K08901	K90902//K90101/K74002	19	24.4	49.7	38.5	95.2	1.5	49.0	5.0
K08604	K02601/K01635	38	24.2	57.1	38.5	95.7	1.5	50.5	5.0
K08226	K90101/I05101	53	23.9	51.1	37.9	91.8	1.0	45.5	4.0
K08207	K90101/K02601	7	23.9	51.3	36.9	95.9	1.0	46.0	3.5
K08201	I02535//K90101/K74002	1	23.7	50.1	36.9	94.2	1.5	49.0	4.0
K08909	X04301/X04201	27	23.5	73.7	37.5	93.1	2.0	47.0	3.0
K08215	K03240/I05101	15	23.5	55.3	37.1	93.5	1.5	47.5	4.0
K08605	K02601/K01635	39	23.4	56.7	38.0	98.2	2.0	48.0	4.0
K08607	K02601/K01635	41	22.5	51.9	38.0	97.6	1.5	49.0	4.5
K08910	X04301/X04201	28	21.5	67.3	39.0	93.4	1.5	47.0	3.5
K08902	K90902//K90101/K74002	20	21.5	50.2	38.0	98.3	2.0	49.5	4.0
K08221	K90101/I05101	48	20.8	59.9	37.1	94.5	1.0	46.0	4.0
K08214	K03240/I05101	14	18.1	53.9	37.0	93.9	1.0	47.0	4.0
AVERAGE OF PRECEDING 64 MEANS			28.0	55.4	37.6	95.0	1.4	47.7	4.0
LSD (P=.05)			7.0	4.7	0.8	1.9	0.5	1.8	0.6
LSD (P=.01)			9.1	6.1	1.1	2.4	0.7	2.3	0.8
COEFFICIENT OF VARIATION			15.4	5.2	1.4	1.2	23.0	2.2	9.7

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LOGGING	HEIGHT	DES. SCORE
K08940	X05104/K04614	21	47.0	54.8	36.0	94.6	1.0	47.3	4.5
K08939	X05104/K04614	20	46.5	51.5	36.0	95.0	1.0	47.5	4.0
K08934	X05104/K04605	15	44.7	52.3	35.0	94.7	1.0	48.1	5.0
K08961	K04604/I05101	42	44.5	71.9	34.0	93.1	1.0	48.5	4.5
K08975	I06212/K03271	56	44.1	62.0	36.0	95.1	1.0	49.0	5.0
K08926	X05105/K04612	7	44.0	50.9	36.0	95.7	1.0	48.0	4.5
K08973	I06212/K01985	54	44.0	51.1	35.5	95.2	1.0	48.0	4.0
K08952	K04604/K03601	33	43.4	70.4	34.5	93.6	1.5	48.0	4.0
K08945	X05104/K04614	26	43.3	50.9	35.5	93.8	1.0	47.4	4.5
K08976	K90101/X06156	57	43.1	50.8	36.5	93.3	1.0	47.5	5.0
K08929	X05105/K04612	10	43.0	51.6	36.0	97.1	1.0	48.8	5.0
K08935	X05104/K04605	16	43.0	53.3	35.0	94.5	1.0	48.0	4.0
K08979	K90101/X06156	60	42.8	51.9	36.0	93.4	1.0	46.8	4.5
K08925	X05105/K04612	6	42.7	53.5	35.5	93.6	1.5	46.8	4.0
K08943	X05104/K04614	24	42.7	52.2	37.0	95.0	1.0	48.0	4.5
K08978	K90101/X06156	59	42.6	49.9	35.5	93.0	1.0	46.2	4.5
K08947	X05104/K04614	28	42.2	51.9	37.0	94.0	1.5	46.0	5.0
K08981	I06214/K06003	62	42.2	51.6	36.0	92.1	1.0	46.5	4.0
K08927	X05105/K04612	8	42.1	52.7	36.5	94.6	1.0	48.0	5.0
K08977	K90101/X06156	58	41.9	52.7	35.5	92.6	1.0	46.9	4.5
K08931	X05105/K04612	12	41.8	52.3	35.5	95.0	1.0	48.4	4.5
K08974	I06212/K03271	55	41.7	65.0	36.5	96.1	1.0	46.5	4.5
K08944	X05104/K04614	25	41.7	52.7	37.5	95.6	1.0	48.0	5.0
K08982	I06214/K06003	63	41.4	50.8	35.0	94.0	1.5	46.3	4.0
K08936	X05104/K04605	17	41.2	51.4	35.5	93.8	1.5	46.5	4.0
K08930	X05105/K04612	11	41.2	53.8	36.5	95.0	1.5	47.5	4.5
K08963	K04612/I05101	44	41.2	59.4	35.0	92.8	1.0	47.0	4.0
K08968	I06212/K04612	49	40.4	48.6	36.5	94.5	1.0	48.3	4.0
K08959	K04604/I05101	40	40.2	68.8	34.0	93.7	1.0	47.9	4.0
K08932	X05105/K04612	13	40.1	51.2	36.5	94.1	1.0	47.7	4.0
K08946	X05104/K04614	27	39.9	51.1	37.0	94.4	1.0	46.5	4.5
K08937	X05104/K04605	18	39.9	50.9	36.0	93.3	1.5	46.9	4.0
K08967	I06212/K04612	48	39.8	51.4	37.0	95.8	1.5	47.4	4.5
K08924	X05105/K04612	5	39.7	53.4	35.5	93.3	1.0	46.6	4.0
K08938	X05104/K04605	19	39.4	52.4	36.0	95.1	1.5	48.0	4.0

EXPERIMENT 8220 WHITE KIDNEY PYT-2

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
K08964	K04612/I05101	45	39.0	59.8	35.0	91.2	1.0	47.4	4.0
K08965	K04612/I05101	46	39.0	62.7	34.0	92.8	1.0	47.4	4.0
K08962	K04604/I05101	43	38.8	59.1	34.5	94.1	1.0	46.1	4.0
K08928	X05105/K04612	9	38.7	50.2	36.5	96.4	1.0	49.2	5.0
K08942	X05104/K04614	23	38.6	52.4	35.5	93.1	1.0	46.8	4.0
K08972	I06212/K01985	53	38.4	57.0	36.0	95.4	2.0	47.1	4.0
K08933	X05105/K04612	14	38.1	48.3	36.0	93.1	1.0	45.8	4.0
K08960	K04604/I05101	41	38.0	71.1	34.5	93.1	1.0	48.2	4.0
K08957	K04604/I05101	38	37.9	49.3	34.0	94.4	1.0	49.0	4.0
K08970	I06212/K01985	51	37.9	55.9	35.0	92.0	1.0	46.5	4.5
K08948	K04601/I05101	29	37.9	55.4	37.5	96.1	1.5	47.8	4.0
K08980	I06214/K06003	61	37.6	50.3	35.0	92.9	1.0	46.5	4.5
K08956	K04604/I05101	37	37.4	49.5	34.0	94.9	1.0	49.0	4.0
K08966	K04612/I05101	47	36.7	58.1	35.0	91.0	1.0	46.0	4.0
K08941	X05104/K04614	22	36.3	51.3	36.0	93.9	1.0	45.3	4.0
K08969	I06212/K01985	50	34.5	55.8	36.5	91.0	1.0	44.7	4.0
K08958	K04604/I05101	39	34.3	46.5	34.5	95.8	1.0	49.0	4.5
K08949	K04607/I05101	30	34.3	56.6	35.0	94.4	1.5	47.1	4.5
K08920	K99974/X04201	1	33.3	98.1	36.5	97.5	2.5	48.0	3.5
K08951	K04604/K03601	32	32.4	53.7	37.5	100.0	2.0	51.2	4.0
K90902	BEA/50B1807//LASSEN, BELUGA	64	31.4	59.0	38.0	98.2	2.0	50.0	4.0
K08921	X04303/X04201	2	30.8	88.3	37.5	97.6	2.0	48.5	3.5
K08922	X04303/X04201	3	30.7	70.6	38.0	95.4	3.0	47.5	3.0
K08971	I06212/K01985	52	30.5	57.3	36.0	92.0	1.0	46.4	4.5
K08950	K04607/I05101	31	30.0	57.1	37.0	98.9	1.0	50.5	4.5
K08923	X04304/X04203	4	26.6	87.7	35.0	95.3	2.0	47.9	3.0
K08953	K04604/K03601	34	25.5	63.4	35.5	100.0	1.5	49.7	3.5
K08955	K04604/K03601	36	21.1	61.8	36.0	99.5	2.5	49.5	3.0
K08954	K04604/K03601	35	14.6	45.6	37.5	99.8	1.5	50.2	4.0
AVERAGE OF PRECEDING 64 MEANS			38.4	56.8	35.8	94.7	1.3	47.6	4.2
LSD (P=.05)			5.5	3.5	0.9	1.7	0.4	1.4	0.7
LSD (P=.01)			7.2	4.6	1.1	2.2	0.5	1.8	0.9
COEFFICIENT OF VARIATION			8.8	3.8	1.5	1.1	19.2	1.8	9.5

EXPERIMENT 8221 WHITE KIDNEY PYT-3

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
K04607	X98201/X98208//K90902/X98205	6	32.6	59.0	34.0	91.0	1.0	46.5	3.8
K04604	K99974/I90013	5	30.9	55.2	34.9	92.5	1.1	47.5	4.5
K04602	C97409/I98512	8	30.6	50.1	36.1	92.0	1.0	48.0	5.2
K04612	K99974/I90013	7	29.6	56.2	34.9	91.0	1.5	46.9	4.5
K01974	K90902//CELIA/BELUGA	3	27.6	61.9	37.1	99.0	2.0	50.6	3.2
K90902	BEA/50B1807//LASSEN, BELUGA	9	27.4	53.6	38.5	98.5	2.0	49.6	3.5
K99975	CARDINAL/K94813	1	26.3	53.9	35.0	92.5	2.0	48.6	4.5
K01985	CARDINAL/K94813//LASSEN/BELUGA/	4	24.6	54.2	36.9	91.0	1.5	47.9	4.8
K00922	BELUGA/ELSA	2	22.7	50.4	37.6	94.0	2.0	47.9	3.5
AVERAGE OF PRECEDING 9 MEANS			28.0	54.9	36.1	93.5	1.6	48.2	4.2
LSD (P=.05)			3.5	5.3	1.0	1.6	0.3	0.8	0.4
LSD (P=.01)			4.5	6.9	1.2	2.1	0.4	1.0	0.5
COEFFICIENT OF VARIATION			7.6	5.9	1.6	1.1	13.3	1.0	6.1

EXPERIMENT 8222 NATIONAL WHITE MOLD YIELD TRIAL

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07863	I02545/P02630	12	53.7	36.4	42.2	38.5	97.6	2.9	55.5	4.4
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOO	46	53.5	27.7	21.4	45.0	96.7	2.0	58.7	5.0
B04316	I01891/JAGUAR	48	52.0	43.9	21.3	45.5	98.7	2.9	57.1	4.4
P07757	I02545/P02647	55	51.9	31.0	33.3	43.5	91.6	1.7	52.0	3.9
B03622	B98306/X00821	32	51.8	36.8	26.3	42.5	96.6	2.3	58.9	4.4
P07751	I02545/P02647	54	50.7	29.3	34.8	41.0	93.6	2.6	51.4	4.6
B05040	35-5/JAGUAR*2/SEL 1308//HR45/KABOO	31	48.9	21.9	22.1	44.5	98.6	1.1	60.1	4.6
P06131	P02646/P02630	43	47.3	46.8	37.5	43.5	94.3	2.8	54.1	5.0
R08026	R94037/R94161, MERLOT RESELECT	13	46.7	53.3	36.1	43.5	92.6	3.5	54.1	3.9
I08933	PS02-037-2-B(PINTO)	8	46.6	25.8	37.5	38.5	92.3	1.8	49.8	4.0
P07405	I03360/P02647	60	46.3	41.4	39.5	42.5	93.3	2.0	51.6	3.3
I01892	G24423/2*TACANA, 115-11M	19	46.1	44.6	21.2	45.0	98.0	2.6	55.7	4.0
N04152	N99250 / I00758	30	45.8	39.4	19.6	44.0	93.3	2.6	50.3	5.0
B05039	35-5/JAGUAR*2/SEL 1308//HR45/KABOO	34	45.2	18.9	22.3	45.0	98.7	1.4	57.9	5.0
B07104	TACANA*/PI 318695(W)	11	44.7	27.2	20.9	45.0	95.0	1.6	54.3	4.3
G07302	G02646/I02545	57	44.7	34.6	34.2	40.5	93.0	2.9	53.2	3.7
N05357	5-14/PHANTOM*2/SEL1308//HR45/KABOO	35	44.3	43.7	19.7	43.0	93.6	3.3	54.2	4.0
N05310	N03611/B01749	29	44.1	35.8	18.4	42.5	97.7	2.1	57.9	5.4
N05319	29-1/JAGUAR*2/SEL1308//HR45/KABOO	26	43.7	47.0	19.7	44.0	95.7	2.7	54.9	4.4
P06132	P02646/P02630	42	43.7	31.7	35.7	44.0	92.0	1.8	51.4	4.3
P07740	I02545/P02647	56	43.5	33.6	40.7	44.0	92.7	2.2	53.9	4.0
P07404	I03360/P02647	61	43.3	41.3	38.2	42.5	94.0	1.5	54.3	5.4
N05324	N00838/N00809//N00792	27	43.0	29.6	18.9	42.5	94.3	1.0	56.7	4.7
P04205	P99119/G99750, SANTE FE	14	42.9	47.5	37.9	42.5	93.0	3.3	50.2	4.0
R98026	R94037/R94161, MERLOT	17	42.5	35.4	36.0	42.0	91.9	2.7	55.0	3.3
B07102	TACANA*/PI 313850(L)	45	42.5	37.8	20.7	46.0	93.7	2.6	53.4	4.3
P06125	P02646/P02630	44	42.1	35.4	35.3	43.0	94.0	0.9	52.7	4.3
B00101	PHANTOM/BLACKJACK, CONDOR	20	42.1	56.3	18.9	45.0	94.0	2.7	52.4	4.0
K06012	K90101/K02601	53	41.4	23.9	52.3	38.0	93.3	0.9	50.8	4.7
G06211	G93414//G00536/N00760	41	40.6	36.4	30.6	43.5	95.4	1.3	56.8	4.0
G07305	G02462/I02541	58	40.6	35.6	34.9	41.5	92.6	2.2	56.5	4.7
G06209	G93414//G00536/N00760	38	40.3	48.2	28.1	42.5	91.8	2.8	55.3	5.0
G05239	G93414/G99750	23	39.9	34.5	36.5	41.5	92.4	1.7	53.9	4.3
C07410	X03516/C99804	49	39.9	27.9	58.4	38.0	93.3	1.2	51.8	4.0
B04431	I01892/JAGUAR	39	39.7	28.4	21.5	45.5	94.7	1.0	53.6	4.7

EXPERIMENT 8222 NATIONAL WHITE MOLD YIELD TRIAL

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
N04158	N00820 / I00758	37	39.1	30.0	20.7	44.5	93.1	1.1	52.8	4.7
P06136	P02627/P02647	40	38.6	45.5	36.6	41.0	92.7	1.7	51.5	3.7
C07401	C99804/C03164	62	38.6	22.2	56.9	37.0	94.0	1.1	51.2	4.6
N07009	N03614/N00844	22	38.0	38.4	17.7	42.0	93.0	2.3	55.6	4.7
N04109	B98306 / X01002	36	37.4	37.8	17.5	45.0	94.4	2.0	53.8	4.9
K06619	I00639/K02601	51	36.9	25.2	57.5	37.5	98.3	1.4	53.0	5.0
B04554	B00103*2/ X00822, ZORRO	18	36.5	42.8	19.2	45.0	93.3	1.1	51.8	4.3
S00809	R94142/X94076, SEDONA	15	36.4	62.0	35.3	43.5	92.6	4.4	52.5	2.7
G93414	MATTERHORN	64	36.3	57.3	31.7	41.0	94.3	2.5	51.9	3.3
I81010	JAPON3/MAGDALENE, BUNSI	4	36.0	28.2	20.6	39.0	95.6	2.8	47.8	3.7
C99833	CARDINAL/K94803, CAPRI	24	35.9	30.5	59.9	36.0	95.0	1.4	49.4	4.0
I08935	PS03-038-4-B(PINTO)	10	35.6	34.6	38.6	41.0	95.0	1.9	51.0	4.7
B95556	B90211/N90616, JAGUAR	21	35.3	29.1	18.1	44.0	92.4	1.1	52.3	4.0
C07403	X03510/C99833	47	35.0	20.7	58.1	37.0	93.5	1.1	51.5	4.3
N04120	N00838 // N99219 / X00821	28	34.8	23.8	18.8	45.0	98.0	1.5	54.9	5.0
C06808	I01800/C03129	50	33.1	50.1	61.3	40.0	93.4	3.3	51.1	4.0
K07921	K03244/I05103	52	32.6	29.9	55.7	37.5	97.7	1.7	52.1	3.7
N97774	BUNSI/HURON, SEAHAWK	25	32.4	33.4	21.0	42.0	92.0	3.2	48.8	3.7
G07309	G02646/G02454	59	32.4	25.2	37.3	40.0	94.3	2.0	51.8	4.7
C07409	X03513/C99833	63	32.3	16.4	59.6	37.5	94.6	1.5	51.7	5.0
I06277	CORNELL 603	5	31.8	12.8	51.0	37.5	96.6	0.9	49.7	5.6
I08931	ORION (GN)	3	30.5	61.5	32.1	41.5	91.7	4.0	51.6	3.0
B05024	I01892 / B98304 //B00101	33	30.1	30.8	19.9	42.0	92.3	1.0	49.9	4.4
I96417	G122 MAGNUSON(CRAN)	2	30.0	27.4	41.9	38.0	100.4	1.5	57.9	5.0
I89011	RB(GN), BERYL	1	28.3	56.9	31.1	42.0	91.0	4.4	47.5	2.7
G05922	HIME TEBO*4/MATTERHORN, FUJI	16	28.1	65.3	26.2	41.0	93.0	4.5	50.6	4.0
I06278	CORNELL 605	6	25.6	34.0	53.1	40.5	102.0	3.2	51.5	5.0
I08934	PS02-011A-39(PINTO)	9	15.6	13.9	33.4	37.0	92.1	1.2	49.5	4.0
I08932	WM31(PINTO)	7	14.5	24.7	38.1	48.0	100.7	4.4	49.1	3.7
AVERAGE OF PRECEDING 64 MEANS			39.4	35.6	33.5	41.9	94.5	2.2	53.0	4.3
LSD (P=.05)			6.4	19.5	2.3	1.7	2.8	1.0	4.0	1.3
LSD (P=.01)			8.3	25.4	3.1	2.2	3.6	1.3	5.2	1.7
COEFFICIENT OF VARIATION			9.9	33.6	4.3	2.4	1.8	27.8	4.6	18.6

EXPERIMENT 8223 GENETIC WHITE MOLD, AP630 POPULATION

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07863	I02545/P02630	1	52.2	18.0	42.3	37.0	98.0	1.5	52.5	5.8
P07901	I02545/P02630	90	47.7	15.0	37.0	44.0	99.5	1.8	52.3	5.3
P07813	I02545/P02630	81	47.0	15.0	36.3	45.0	96.3	2.5	50.8	5.3
P07851	I02545/P02630	39	46.9	23.8	33.1	43.0	95.3	1.5	51.8	5.3
P07891	I02545/P02630	69	46.8	12.0	40.7	35.0	96.8	1.0	50.3	4.3
P07839	I02545/P02630	3	46.8	11.9	36.1	36.0	93.8	1.0	52.0	5.3
P07848	I02545/P02630	18	45.7	21.0	42.8	35.0	97.3	1.5	52.5	4.3
P07867	I02545/P02630	5	45.6	18.0	34.4	42.5	94.8	1.5	51.0	5.0
P07881	I02545/P02630	16	45.1	21.0	40.7	42.0	94.0	1.8	51.8	4.3
P07860	I02545/P02630	40	44.8	29.9	32.0	44.5	94.5	1.3	50.0	4.8
P07827	I02545/P02630	45	44.7	24.1	32.8	42.0	93.3	1.8	51.5	4.0
P07856	I02545/P02630	21	44.7	24.0	36.4	39.0	93.5	1.3	51.8	5.3
P07830	I02545/P02630	14	44.5	21.0	38.6	36.5	95.3	2.3	51.5	5.0
P07853	I02545/P02630	30	44.4	18.0	40.4	42.0	93.8	2.0	52.3	5.5
P07819	I02545/P02630	22	44.4	12.0	40.1	41.5	94.5	1.0	51.8	5.0
P07836	I02545/P02630	48	44.2	18.0	37.3	43.5	94.3	1.3	52.5	5.3
P07894	I02545/P02630	4	44.0	17.9	39.9	34.5	94.3	1.0	50.5	4.3
P07882	I02545/P02630	26	43.7	15.0	36.8	36.0	94.3	1.5	50.0	4.8
P07903	I02545/P02630	9	43.6	30.1	39.4	37.5	94.5	2.0	50.8	4.0
P07869	I02545/P02630	20	43.6	18.1	37.3	37.0	93.8	2.0	49.8	4.5
P07895	I02545/P02630	68	43.4	30.1	38.0	42.5	93.5	2.0	50.3	3.5
P07840	I02545/P02630	89	43.1	21.0	33.9	44.5	95.8	1.8	51.8	5.0
P07849	I02545/P02630	79	42.9	14.9	32.3	44.5	95.3	1.8	51.3	5.3
P07820	I02545/P02630	44	42.8	21.0	40.9	42.5	94.3	1.3	50.5	5.0
P07802	I02545/P02630	59	42.8	11.9	34.3	45.5	97.5	1.3	50.5	5.0

EXPERIMENT 8223 GENETIC WHITE MOLD, AP630 POPULATION

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07838	I02545/P02630	34	42.6	15.1	40.3	42.5	96.0	2.0	52.0	5.5
P07889	I02545/P02630	93	42.6	30.0	40.5	36.5	93.8	1.5	53.0	4.8
P07878	I02545/P02630	47	42.5	18.1	40.8	42.5	92.3	1.5	51.8	4.5
P07826	I02545/P02630	8	42.4	17.9	34.0	43.0	92.5	1.0	49.8	5.0
P07855	I02545/P02630	17	42.1	14.9	31.0	44.0	96.8	2.0	49.8	5.0
P07874	I02545/P02630	70	42.0	18.0	39.8	35.5	94.3	1.3	49.8	4.5
P07818	I02545/P02630	64	42.0	15.0	35.2	37.0	93.3	1.0	49.8	4.3
P07841	I02545/P02630	41	41.7	14.9	34.6	44.5	98.5	2.0	50.0	5.3
P07814	I02545/P02630	78	41.6	15.0	41.4	43.0	95.5	1.3	52.8	4.8
P07809	I02545/P02630	87	41.5	23.7	35.4	41.0	94.5	1.3	52.0	5.0
P07888	I02545/P02630	13	41.5	18.0	42.2	40.0	93.8	1.5	50.8	4.5
P07821	I02545/P02630	94	41.5	14.9	38.6	37.0	94.8	1.0	52.3	4.5
P07822	I02545/P02630	58	41.5	18.0	37.9	35.5	92.5	1.0	49.8	4.3
P07861	I02545/P02630	84	41.2	27.2	36.1	40.0	94.0	1.5	51.8	4.0
P07844	I02545/P02630	23	41.2	21.1	37.0	37.5	92.8	1.0	48.0	4.8
P07868	I02545/P02630	49	41.2	23.7	37.4	41.5	93.3	1.8	48.8	4.5
P07831	I02545/P02630	63	41.0	33.2	37.3	42.0	93.5	1.8	50.5	4.0
P07806	I02545/P02630	2	41.0	12.0	36.3	35.5	94.0	1.0	49.8	4.5
P07904	I02545/P02630	6	41.0	18.1	40.9	39.5	94.0	1.3	50.5	5.0
P07847	I02545/P02630	35	40.8	18.0	37.3	42.5	95.3	1.5	50.0	4.8
P07850	I02545/P02630	73	40.8	18.1	37.1	44.0	94.0	1.5	52.0	5.0
P07835	I02545/P02630	77	40.7	15.1	36.6	36.0	94.0	1.5	49.0	4.3
P07876	I02545/P02630	28	40.5	27.0	35.2	42.0	95.3	2.0	51.3	5.0
P07832	I02545/P02630	36	40.5	20.8	35.1	41.5	93.5	1.0	49.0	4.8
P07902	I02545/P02630	32	40.1	24.0	37.8	42.0	93.0	1.5	48.8	4.5

EXPERIMENT 8223 GENETIC WHITE MOLD, AP630 POPULATION

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07805	I02545/P02630	66	39.7	14.8	36.5	37.0	95.5	1.8	49.3	4.8
P07842	I02545/P02630	10	39.5	18.0	34.0	44.0	95.3	1.8	50.3	4.0
P07865	I02545/P02630	76	39.4	36.3	37.9	40.5	94.3	2.3	51.0	3.8
P07833	I02545/P02630	19	39.3	18.0	35.5	37.0	94.5	1.0	49.8	4.5
P07900	I02545/P02630	56	39.3	18.0	34.4	41.5	96.0	2.0	49.8	5.5
P07908	I02545/P02630	80	39.1	20.9	37.2	41.0	93.0	1.0	48.5	4.5
I02545	AN 37,(PINTO)	46	39.1	18.0	35.7	38.0	92.5	1.0	49.3	4.3
P07816	I02545/P02630	85	39.0	11.9	35.3	45.0	97.3	2.0	53.5	5.3
P07880	I02545/P02630	29	39.0	17.9	37.3	42.5	94.0	1.3	50.8	4.5
P07854	I02545/P02630	43	39.0	33.1	35.9	36.0	93.8	1.0	48.5	4.3
P07845	I02545/P02630	12	38.9	18.0	34.8	39.0	93.5	1.0	49.3	4.5
P07862	I02545/P02630	52	38.9	21.0	34.5	35.5	92.8	1.5	49.3	4.0
P07885	I02545/P02630	11	38.8	21.0	33.0	45.0	93.5	1.5	50.5	4.5
P07879	I02545/P02630	60	38.7	15.0	36.1	42.5	93.3	1.8	51.3	4.5
P02630	P99120/MATTERHORN	83	38.7	21.2	38.1	42.0	92.5	1.5	47.5	4.5
P07897	I02545/P02630	51	38.7	17.9	37.0	37.0	94.8	1.8	52.3	4.5
P07812	I02545/P02630	50	38.4	24.1	40.2	36.0	93.0	1.3	49.8	4.5
P07892	I02545/P02630	57	38.4	24.2	37.4	40.0	93.3	1.3	51.0	4.8
P07829	I02545/P02630	7	38.2	30.1	32.2	40.5	94.0	2.0	49.0	4.0
P07858	I02545/P02630	42	38.1	21.1	38.8	36.5	93.0	1.3	50.3	4.8
P07823	I02545/P02630	74	38.0	21.0	35.2	44.0	93.0	1.3	49.3	4.5
P07909	I02545/P02630	92	37.8	21.0	35.5	37.5	93.0	1.3	49.8	4.3
P07883	I02545/P02630	62	37.7	18.0	41.2	36.0	94.3	1.0	49.0	4.8
P07846	I02545/P02630	82	37.7	21.2	40.7	34.5	92.0	1.5	49.8	4.5
P07893	I02545/P02630	88	37.6	14.9	40.8	43.5	97.0	2.5	53.3	5.0

EXPERIMENT 8223 GENETIC WHITE MOLD, AP630 POPULATION

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	WHITE MOLD(%)	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
P07810	I02545/P02630	71	37.3	23.9	34.4	36.5	94.5	1.3	48.8	4.5
P07825	I02545/P02630	54	37.2	27.2	37.0	36.5	92.5	1.8	50.3	4.8
P07886	I02545/P02630	37	37.0	24.1	33.4	41.0	92.8	1.8	49.0	4.0
P07872	I02545/P02630	33	36.9	23.8	38.9	36.5	92.8	1.8	45.5	4.0
P07815	I02545/P02630	15	36.8	15.0	32.9	42.0	94.5	1.3	51.0	4.0
P07870	I02545/P02630	72	36.8	24.0	34.0	36.0	93.5	1.5	51.3	4.5
P07896	I02545/P02630	91	36.8	14.9	40.2	45.0	98.8	1.0	51.8	5.0
P07887	I02545/P02630	61	36.6	27.1	39.0	36.0	94.3	1.8	51.3	4.3
P07905	I02545/P02630	27	36.6	21.0	36.7	41.5	92.8	1.3	49.8	4.5
P07907	I02545/P02630	53	36.4	15.0	35.1	34.5	92.3	1.5	48.5	4.3
P07811	I02545/P02630	55	36.1	18.0	36.9	40.5	93.3	1.0	49.3	3.8
P07808	I02545/P02630	96	35.8	21.0	36.2	43.0	93.8	2.0	50.8	4.3
P07875	I02545/P02630	65	35.7	21.1	34.7	42.5	93.8	1.3	49.0	4.0
P07834	I02545/P02630	75	35.5	23.9	34.5	43.0	92.8	1.8	49.5	4.0
P07843	I02545/P02630	24	35.4	24.0	34.0	43.0	94.0	2.0	51.3	4.3
P07857	I02545/P02630	31	34.7	29.8	35.8	41.0	93.5	1.8	49.5	4.5
P07803	I02545/P02630	25	34.2	12.0	39.8	37.0	95.0	1.0	49.0	4.0
P07877	I02545/P02630	95	34.2	14.9	33.6	36.5	94.5	1.0	49.0	4.3
P07804	I02545/P02630	67	32.9	21.1	33.4	38.5	92.3	1.3	48.5	4.3
P07866	I02545/P02630	86	32.1	21.2	35.3	36.5	93.0	1.3	48.3	4.3
P07899	I02545/P02630	38	29.6	27.3	30.8	42.0	93.3	2.3	48.8	4.3
AVERAGE OF PRECEDING 96 MEA			40.3	20.2	36.8	40.0	94.3	1.5	50.4	4.6
LSD (P=.05)			5.5	13.7	2.2	1.2	2.3	0.8	2.6	1.0
LSD (P=.01)			7.2	17.9	2.9	1.5	3.0	1.0	3.4	1.3
COEFFICIENT OF VARIATION			9.7	48.0	4.3	2.1	1.7	37.4	3.7	15.6

EXPERIMENT 8241 PLH MONTCALM (SM SEEDED)

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE	PLH JULY	PLH AUG
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABC	3	40.5	20.8	44.5	97.5	1.0	53.8	5.5	0.7	0.5
B04554	B00103 // B00103 / X00822, ZORRO	9	39.9	21.4	45.0	94.4	1.0	50.9	5.5	0.5	0.3
B05040	35-5/JAGUAR*2/SEL 1308//HR45/KABOC	6	38.7	22.2	45.0	98.9	1.0	55.4	6.0	0.5	0.3
I01892	G24423/2*TACANA, 115-11M	5	37.5	22.4	47.0	99.0	2.0	53.4	5.0	0.6	0.5
B04316	I01891/JAGUAR	1	37.3	22.0	45.5	99.5	2.0	52.1	4.0	0.4	0.5
N05311	N03611/B01749	14	33.7	18.6	44.0	92.5	1.0	55.4	5.5	0.3	0.2
B90222	RAVEN	2	32.9	18.0	44.5	92.5	1.0	53.6	4.5	0.2	0.4
I81010	JAPON3/MAGDALENE, BUNSI	10	31.8	21.3	42.5	94.0	2.5	43.1	3.5	0.9	0.9
I92002	C-20*6/CN49-242 NAVY GENTEC, VIST/	11	31.2	18.7	44.0	95.0	2.0	51.9	4.0	0.5	0.5
I07153	E 509	16	31.2	26.3	47.0	98.1	2.5	49.7	4.0	1.5	0.8
B00101	PHANTOM/BLACKJACK, CONDOR	4	30.6	19.7	46.0	91.9	2.0	48.9	4.0	0.9	0.5
I81066	SEL-BTS, T39	12	30.5	19.6	46.0	94.5	3.0	46.3	3.0	1.0	0.8
N97774	BUNSI/HURON, SEAHAWK	13	28.7	22.8	43.5	91.6	2.0	46.4	4.0	0.6	0.3
I03388	HIME TEBO	8	28.3	29.7	42.0	91.5	2.0	44.8	3.0	0.2	0.2
B95556	B90211/N90616, JAGUAR	7	26.8	18.4	46.0	92.6	1.0	49.1	4.0	0.4	0.4
I07152	E 507	15	17.7	28.3	49.0	51.0	3.0	48.2	3.5	1.1	0.8
AVERAGE OF PRECEDING 16 MEANS			32.3	21.9	45.1	92.2	1.8	50.2	4.3	0.7	0.5
LSD (P=.05)			4.0	1.1	1.2	20.5	0.3	1.4	0.5	0.7	0.4
LSD (P=.01)			5.2	1.5	1.6	26.7	0.4	1.9	0.7	1.0	0.5
COEFFICIENT OF VARIATION			7.6	3.2	1.6	13.6	9.9	1.8	7.2	69.9	49.9

EXPERIMENT 8242 PLH MONTCALM (MED & LG SEED)

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE	PLH JULY	PLH AUG
R98026	R94037/R94161, MERLOT	8	35.7	37.4	43.0	94.0	2.5	50.6	4.5	1.3	0.4
P04207	P99139/G99750	3	33.9	43.9	40.5	92.0	1.5	48.4	4.5	1.9	0.7
P86299	PRS- C3S3, SIERRA	9	33.8	34.8	48.0	94.0	3.0	48.2	3.5	1.3	0.5
P04205	P99119/G99750, SANTE FE	4	32.3	42.3	41.0	92.1	1.5	48.7	5.0	1.7	0.4
G93414	MATTERHORN	1	32.1	34.2	41.0	91.9	2.0	48.5	4.5	1.4	0.5
I99117	ASG85-5051-7, BUSTER	2	31.9	40.2	39.5	91.9	2.5	46.8	3.5	0.8	0.4
R02002	R94026/X96024//R95429/X96034	7	31.0	35.2	45.0	93.0	1.9	50.9	4.0	1.5	0.2
C99833	CARDINAL/K94803, CAPRI	11	30.9	60.8	36.5	92.2	1.0	45.6	5.0	1.0	0.8
S00809	R94142/X94076, SEDONA	5	30.0	37.6	43.5	92.6	3.0	48.6	3.5	0.3	0.3
K90101	CHAR/2*MONT, RED HAWK	10	29.0	55.7	37.5	94.0	1.0	46.0	4.5	2.6	1.3
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	16	28.7	53.4	38.0	94.6	1.5	45.9	3.5	4.7	1.6
P89430	81-12034/P86297, AZTEC	6	28.5	40.4	41.5	92.0	2.0	48.5	3.5	0.7	0.8
C03157	C97407 2*\NEGRO SAN LUIS-67	15	28.2	57.7	37.0	93.0	1.0	46.5	4.0	2.7	1.7
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	14	26.6	55.6	39.5	94.6	1.1	45.9	5.0	3.4	0.9
K90902	BEA/50B1807//LASSEN, BELUGA	13	24.7	56.6	40.0	93.9	1.0	47.3	5.0	2.4	1.1
K94601	CN49242/3*MONT//REDKLOUD, CHINOOK200	12	23.2	55.5	39.5	95.1	1.0	46.6	4.5	1.7	0.9
AVERAGE OF PRECEDING 16 MEANS			30.0	46.3	40.7	93.2	1.7	47.7	4.3	1.8	0.8
LSD (P=.05)			5.5	2.2	1.0	0.5	0.4	1.4	0.8	1.5	1.0
LSD (P=.01)			7.1	2.8	1.3	0.7	0.6	1.9	1.0	2.0	1.3
COEFFICIENT OF VARIATION			11.2	2.9	1.6	0.3	15.4	1.8	11.4	50.1	77.3

EXPERIMENT 8443 PLH E. LANSING (SM SEEDED)

DATE 05/29/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE	PLH 7/1/2008	PHL 7/2/2008
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	11	36.5	20.4	44.0	91.5	2.0	55.0	4.0	2.6	2.7
N05311	N03611/B01749	14	35.8	20.3	44.0	92.0	1.0	52.0	5.5	0.8	0.6
B04316	I01891/JAGUAR	1	35.8	20.2	45.5	93.0	1.5	56.0	4.0	1.2	1.3
I01892	G24423/2*TACANA, 115-11M	5	35.0	22.7	47.0	92.0	2.0	54.0	5.0	0.7	1.5
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOC	3	34.6	20.0	44.5	90.5	1.0	72.5	5.5	1.1	1.4
B04554	B00103 // B00103 / X00822, ZORRO	9	33.5	22.2	45.0	91.5	1.0	55.0	5.5	2.8	2.1
N97774	BUNSI/HURON, SEAHAWK	13	32.7	24.0	43.5	90.5	2.4	44.5	4.0	2.6	2.5
B90222	RAVEN	2	32.6	20.1	44.5	91.0	0.9	54.5	4.5	0.4	0.3
I81066	SEL-BTS, T39	12	32.3	21.9	46.0	89.5	3.0	48.5	3.0	1.0	2.4
B05040	35-5/JAGUAR*2/SEL 1308//HR45/KABOOH	6	29.7	22.3	45.0	90.5	1.0	50.5	6.0	1.1	1.3
I03388	HIME TEBO	8	29.1	30.3	42.0	92.0	2.0	47.0	3.0	0.2	0.9
B00101	PHANTOM/BLACKJACK, CONDOR	4	28.8	21.4	46.0	90.0	1.5	50.5	4.0	1.5	2.0
I81010	JAPON3/MAGDALENE, BUNSI	10	28.7	20.4	42.5	91.0	2.5	45.5	3.5	2.4	3.3
B95556	B90211/N90616, JAGUAR	7	27.6	19.6	46.0	91.0	1.0	50.5	4.0	1.7	1.1
I07153	E 509	16	19.5	27.9	47.0	100.0	2.0	50.5	4.0	2.2	2.1
I07152	E 507	15	17.1	30.5	49.0	100.5	2.5	47.5	3.5	3.3	2.5
AVERAGE OF PRECEDING 16 MEANS			30.6	22.8	45.1	92.3	1.7	52.1	4.3	1.6	1.7
LSD (P=.05)			8.0	1.0	1.2	1.6	0.4	7.3	0.5	0.5	1.2
LSD (P=.01)			10.3	1.4	1.6	2.0	0.6	9.5	0.7	0.7	1.6
COEFFICIENT OF VARIATION			15.9	2.8	1.6	1.0	15.4	8.6	7.2	19.8	41.9

EXPERIMENT 8444 PLH E. LANSING (MED & LG SEED)

DATE 05/29/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE	PLH 7/1/2008	PLH 7/2/2008
G93414	MATTERHORN	1	41.7	35.8	43.4	89.9	2.0	51.0	4.5	0.9	1.5
R98026	R94037/R94161, MERLOT	8	41.0	38.8	43.5	89.4	1.4	56.0	4.5	2.5	1.7
R02002	R94026/X96024//R95429/X96034	7	39.7	38.0	43.9	91.0	4.4	41.0	4.0	1.0	0.7
P86299	PRS- C3S3, SIERRA	9	38.1	37.1	47.0	90.8	3.0	49.5	3.5	0.4	0.6
P89430	81-12034/P86297, AZTEC	6	37.3	38.0	41.6	85.8	3.0	50.0	3.5	0.8	1.4
I99117	ASG85-5051-7, BUSTER	2	37.0	36.5	42.5	86.9	2.5	49.5	3.5	0.8	1.1
P04205	P99119/G99750, SANTE FE	4	35.1	43.1	42.6	85.0	2.0	49.0	5.0	1.8	2.3
P04207	P99139/G99750	3	33.4	44.5	42.5	89.4	1.3	54.0	4.5	2.2	2.8
C99833	CARDINAL/K94803, CAPRI	11	33.1	54.9	38.1	91.2	2.0	49.0	5.0	1.7	3.9
S00809	R94142/X94076, SEDONA	5	33.1	37.9	44.5	87.1	2.5	54.0	3.5	2.7	2.2
K90902	BEA/50B1807//LASSEN, BELUGA	13	29.9	48.4	40.9	90.0	1.1	51.0	5.0	1.6	3.4
C03157	C97407 2*\NEGRO SAN LUIS-67	15	29.4	50.8	39.0	90.5	1.6	47.5	4.0	3.6	2.4
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	16	27.6	46.2	40.5	90.7	2.1	47.5	3.5	3.6	6.8
K90101	CHAR/2*MONT, RED HAWK	10	25.8	50.4	40.0	90.0	1.5	45.0	4.5	3.9	2.5
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	14	24.9	54.9	41.1	91.1	2.0	50.0	5.0	4.3	5.2
K94601	CN49242/3*MONT//REDKLOUD, CHINOOK2000	12	23.1	50.9	40.5	90.6	1.4	48.5	4.5	1.4	2.8
AVERAGE OF PRECEDING 16 MEANS			33.1	44.1	42.0	89.3	2.1	49.5	4.3	2.1	2.6
LSD (P=.05)			4.2	2.1	0.7	0.6	1.5	6.6	0.8	1.4	1.2
LSD (P=.01)			5.5	2.7	1.0	0.8	1.9	8.6	1.0	1.8	1.5
COEFFICIENT OF VARIATION			7.8	2.9	1.1	0.4	42.4	8.2	11.4	41.8	27.4

EXPERIMENT 8831 ORGANIC TRIAL SMALL SEED @ KBS

DATE 06/01/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I07148	TARS SR05	1	16.1	24.1	42.2	94.8	1.0	47.9	4.0
B95556	JAGUAR	9	15.7	19.2	41.7	84.7	1.0	27.3	4.0
N05324	N00838/N00809//N00792	4	13.7	17.5	38.2	87.9	1.0	30.2	4.0
I81066	SEL-BTS, T39	14	13.5	18.7	38.6	89.7	1.0	36.1	3.5
B04554	B00103 // B00103 / X00822, ZORRO	16	13.2	20.4	42.3	90.1	1.0	38.9	4.5
I81010	JAPON3/MAGDALENE, BUNSI	3	12.9	18.8	39.0	95.7	2.5	36.4	2.5
I01892	G24423/2*TACANA, 115-11M	13	12.6	20.2	41.5	90.0	2.0	47.3	4.5
N61001	MIC62, MICHELITE	5	12.5	16.2	37.2	87.6	3.0	44.3	3.5
N05311	N03611/B01749	8	12.4	16.7	41.9	89.7	1.0	36.4	5.0
B00101	PHANTOM/BLACKJACK, CONDOR	10	12.2	18.6	39.1	85.0	1.0	33.6	3.5
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	11	12.1	17.2	42.9	87.1	1.0	33.2	3.0
N97774	BUNSI/HURON, SEAHAWK	7	12.0	19.6	40.4	85.3	1.5	40.5	3.0
I07112	R99 - NON -NODULATING NAVY	2	11.8	17.3	37.3	105.6	2.0	46.8	3.0
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	6	11.5	17.6	40.2	90.2	1.0	38.6	3.5
B04431	I01892/JAGUAR	15	11.4	19.9	43.6	95.5	1.0	37.1	4.0
B05039	35-5/JAGUAR*2/SEL 1308//HR45/KABOON	12	9.1	20.9	42.5	97.1	1.0	30.5	2.5
AVERAGE OF PRECEDING 16 MEANS			12.7	18.9	40.5	91.0	1.4	37.8	3.6
LSD (P=.05)			3.8	1.4	1.5	4.3	0.2	4.6	0.6
LSD (P=.01)			4.9	1.8	1.9	5.5	0.3	6.0	0.8
COEFFICIENT OF VARIATION			21.2	5.1	2.6	3.3	10.8	8.7	11.5

EXPERIMENT 8832 ORGANIC TRIAL MED & LG SEED @ KBS

DATE 06/01/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
I99117	(PT)ASG85-5051-7, BUSTER	2	15.4	35.7	35.2	80.0	2.0	54.5	3.0
P04205	P99119/G99750, SANTE FE	3	14.9	38.0	35.9	80.0	1.5	49.5	5.0
S00809	R94142/X94076, SEDONA	6	14.3	33.0	35.1	80.0	2.0	59.8	4.5
K90101	CHAR/2*MONT, RED HAWK	12	14.2	44.9	32.7	80.0	1.5	29.6	3.5
P06131	P02646/P02630	4	13.9	39.3	33.3	80.0	1.0	45.0	5.0
I84002	NW410//VICTOR/AURORA,GH215, OTHELLO	1	13.7	38.0	32.1	80.0	2.5	55.9	2.5
I90013	(LRK)UCD, CELRK	13	13.1	52.9	32.0	80.0	1.0	35.0	2.5
G93414	MATTERHORN	5	12.9	34.7	35.4	80.0	2.0	55.0	5.0
R98026	R94037/R94161, MERLOT	7	12.5	36.3	37.4	80.0	2.5	50.4	3.5
C99833	CARDINAL/K94803, CAPRI	8	11.9	51.7	31.6	80.0	1.5	35.0	4.0
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK SELECT	15	11.6	45.8	34.1	80.0	1.5	35.4	4.0
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	11	10.8	47.3	34.0	80.0	1.0	49.3	4.0
I05101	USDK CBB-15	10	10.7	42.5	34.3	80.0	2.0	34.3	4.0
K90902	BEA/50B1807//LASSEN, BELUGA	16	10.4	43.6	37.0	82.5	1.5	35.9	3.0
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	9	9.9	43.0	35.0	80.0	1.5	45.2	3.5
K05604	K00604/X02151	14	8.3	49.7	34.2	85.0	2.0	35.4	4.0
AVERAGE OF PRECEDING 16 MEANS			12.4	42.3	34.3	80.5	1.7	44.1	3.8
LSD (P=.05)			3.0	3.9	1.2	1.6	0.4	5.6	0.6
LSD (P=.01)			3.9	5.0	1.6	2.0	0.5	7.3	0.8
COEFFICIENT OF VARIATION			17.1	6.5	2.5	1.4	17.4	9.1	11.7

EXPERIMENT 8833 CONVENTIONAL TRIAL SMALL SEED @ KBS

DATE 06/01/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
N05324	N00838/N00809//N00792	4	21.6	20.0	38.4	100.2	1.1	43.1	4.4
B00101	PHANTOM/BLACKJACK, CONDOR	10	20.9	20.8	40.5	92.8	1.6	37.3	4.7
I01892	G24423/2*TACANA, 115-11M	13	20.8	23.9	37.7	97.7	2.1	42.5	4.6
B04554	B00103 // B00103 / X00822, ZORRO	16	20.3	22.7	40.5	90.2	1.6	36.6	5.1
I81010	JAPON3/MAGDALENE, BUNSI	3	20.2	21.0	37.8	97.5	3.1	30.0	2.5
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	6	20.1	21.3	38.5	96.7	2.4	46.1	4.0
B04431	I01892/JAGUAR	15	19.6	22.4	40.8	99.9	1.3	47.2	4.2
B95556	JAGUAR	9	19.5	19.8	40.6	95.2	1.1	37.4	4.9
B05039	35-5/JAGUAR*2/SEL 1308//HR45/KABOON	12	18.3	23.0	38.4	103.4	2.3	39.9	4.5
N61001	MIC62, MICHELITE	5	17.8	20.5	39.2	91.4	3.5	25.5	3.4
N05311	N03611/B01749	8	17.7	22.0	39.5	92.8	0.9	37.4	5.6
N97774	BUNSI/HURON, SEAHAWK	7	17.6	27.3	41.2	90.0	2.6	37.6	3.5
I81066	SEL-BTS, T39	14	16.4	22.4	40.1	92.0	1.7	41.6	4.7
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	11	14.6	20.6	41.3	97.7	1.1	37.8	3.4
I07148	TARS SR05	1	10.9	24.5	44.8	95.3	2.5	40.0	3.6
I07112	R99 - NON -NODULATING NAVY	2	10.2	17.0	38.6	106.1	3.6	44.0	2.2
AVERAGE OF PRECEDING 16 MEANS			17.9	21.8	39.9	96.2	2.0	39.0	4.1
LSD (P=.05)			4.8	2.2	1.4	2.5	0.7	3.3	0.7
LSD (P=.01)			6.2	2.9	1.9	3.3	0.9	4.3	1.0
COEFFICIENT OF VARIATION			18.8	7.2	2.6	1.9	23.3	6.0	12.8

EXPERIMENT 8834 CONVENTIONAL TRIAL MED & LG SEED @ KBS

DATE 06/01/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
G93414	MATTERHORN	5	20.2	37.0	33.0	82.5	1.0	47.5	4.0
C99833	CARDINAL/K94803, CAPRI	8	19.9	57.7	32.4	80.0	1.0	32.5	3.5
I90013	(LRK)UCD, CELRK	13	19.8	60.7	30.7	80.0	1.0	32.5	3.0
I84002	NW410//VICTOR/AURORA,GH215, OTHELLO	1	18.9	42.0	34.2	80.0	3.0	40.0	2.9
S00809	R94142/X94076, SEDONA	6	18.8	40.7	36.5	85.0	2.5	60.0	3.0
I99117	(PT)ASG85-5051-7, BUSTER	2	18.6	41.8	36.5	82.5	3.0	55.0	3.0
P06131	P02646/P02630	4	17.4	45.2	36.7	80.0	1.0	40.0	5.0
P04205	P99119/G99750, SANTE FE	3	16.3	45.2	34.0	82.5	1.5	35.0	4.0
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK SELECT	15	16.2	52.6	35.7	82.5	1.0	37.5	4.1
K05604	K00604/X02151	14	15.5	56.2	35.4	82.5	1.5	45.0	4.0
K90101	CHAR/2*MONT, RED HAWK	12	14.9	53.7	35.1	82.5	1.5	35.0	3.5
K90902	BEA/50B1807//LASSEN, BELUGA	16	14.8	50.4	34.5	82.5	1.5	32.5	3.5
R98026	R94037/R94161, MERLOT	7	14.3	43.6	35.3	80.0	1.0	50.0	5.0
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	9	14.0	52.8	33.8	80.0	2.0	35.0	3.0
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	11	13.5	53.7	32.6	82.5	1.0	47.5	3.0
I05101	USDK-CBB15	10	12.5	53.9	37.1	82.5	1.0	46.5	3.0
AVERAGE OF PRECEDING 16 MEANS			16.6	49.2	34.6	81.7	1.5	42.0	3.6
LSD (P=.05)			3.4	2.8	1.1	1.5	0.3	4.1	0.5
LSD (P=.01)			4.4	3.6	1.4	1.9	0.4	5.3	0.6
COEFFICIENT OF VARIATION			14.5	4.0	2.3	1.3	15.3	6.9	8.9

EXPERIMENT 8935 ORGANIC TRIAL SMALL SEED @ GRATIOT CO

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
B95556	JAGUAR	9	10.4	21.4	41.7	84.7	1.0	27.3	4.0
I01892	G24423/2*TACANA, 115-11M	13	10.0	23.7	41.5	90.0	2.0	47.3	4.5
I07148	TARS SR05	1	9.5	26.2	42.2	94.8	1.0	47.9	4.0
N97774	BUNSI/HURON, SEAHAWK	7	9.4	24.6	40.4	85.3	1.5	40.5	3.0
B04554	B00103 // B00103 / X00822, ZORRO	16	8.7	23.7	42.3	90.1	1.0	38.9	4.5
N05311	N03611/B01749	8	8.4	19.3	41.9	89.7	1.0	36.4	5.0
B00101	PHANTOM/BLACKJACK, CONDOR	10	8.2	23.0	39.1	85.0	1.0	33.6	3.5
I81066	SEL-BTS, T39	14	7.8	23.1	38.6	89.7	1.0	36.1	3.5
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	6	7.6	25.4	40.2	90.2	1.0	38.6	3.5
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	11	7.1	21.0	42.9	87.1	1.0	33.2	3.0
N61001	MIC62, MICHELITE	5	6.8	20.4	37.2	87.6	3.0	44.3	3.5
N05324	N00838/N00809//N00792	4	6.7	23.2	38.2	87.9	1.0	30.2	4.0
B04431	I01892/JAGUAR	15	6.1	24.4	43.6	95.5	1.0	37.1	4.0
B05039	35-5/JAGUAR*2/SEL 1308//HR45/KABOON	12	5.9	22.3	42.5	97.1	1.0	30.5	2.5
I81010	JAPON3/MAGDALENE, BUNSI	3	3.8	20.8	39.0	95.7	2.5	36.4	2.5
I07112	R99 - NON -NODULATING NAVY	2	1.6	18.6	37.3	105.6	2.0	46.8	3.0
AVERAGE OF PRECEDING 16 MEANS			7.4	22.6	40.5	91.0	1.4	37.8	3.6
LSD (P=.05)			2.6	0.9	1.5	4.3	0.2	4.6	0.6
LSD (P=.01)			3.4	1.2	1.9	5.5	0.3	6.0	0.8
COEFFICIENT OF VARIATION			25.1	2.9	2.6	3.3	10.8	8.7	11.5

EXPERIMENT 8936 ORGANIC TRIAL MED & LG SEED @ GRATIOT CO

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LOGGING	HEIGHT	DES. SCORE
R98026	R94037/R94161, MERLOT	7	19.0	41.6	37.4	80.0	2.5	50.4	3.5
S00809	R94142/X94076, SEDONA	6	16.0	41.6	35.1	80.0	2.0	59.8	4.5
P06131	P02646/P02630	4	14.7	48.0	33.3	80.0	1.0	45.0	5.0
I84002	NW410//VICTOR/AURORA,GH215, OTHELLO	1	13.6	41.6	32.1	80.0	2.5	55.9	2.5
P04205	P99119/G99750, SANTE FE	3	13.4	46.9	35.9	80.0	1.5	49.5	5.0
G93414	MATTERHORN	5	12.0	39.3	35.4	80.0	2.0	55.0	5.0
C99833	CARDINAL/K94803, CAPRI	8	11.3	51.4	31.6	80.0	1.5	35.0	4.0
I99117	(PT)ASG85-5051-7, BUSTER	2	10.5	41.3	35.2	80.0	2.0	54.5	3.0
I05101	USDK-CBB-15	10	8.4	48.4	34.3	80.0	2.0	34.3	4.0
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	11	8.0	47.5	34.0	80.0	1.0	49.3	4.0
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK SELECT	15	7.9	48.6	34.1	80.0	1.5	35.4	4.0
I90013	(LRK)UCD, CELRK	13	7.9	52.0	32.0	80.0	1.0	35.0	2.5
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	9	7.0	44.9	35.0	80.0	1.5	45.2	3.5
K90902	BEA/50B1807//LASSEN, BELUGA	16	6.9	51.3	37.0	82.5	1.5	35.9	3.0
K05604	K00604/X02151	14	6.9	49.2	34.2	85.0	2.0	35.4	4.0
K90101	CHAR/2*MONT, RED HAWK	12	6.1	44.3	32.7	80.0	1.5	29.6	3.5
AVERAGE OF PRECEDING 16 MEANS			10.6	46.1	34.3	80.5	1.7	44.1	3.8
LSD (P=.05)			3.2	2.8	1.2	1.6	0.4	5.6	0.6
LSD (P=.01)			4.1	3.6	1.6	2.0	0.5	7.3	0.8
COEFFICIENT OF VARIATION			21.3	4.2	2.5	1.4	17.4	9.1	11.7

EXPERIMENT 8937 CONVENTIONAL TRIAL SMALL SEED @ GRATIOT CO

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT	DES. SCORE
B04554	B00103 // B00103 / X00822, ZORRO	16	19.4	24.3	40.5	90.2	1.6	36.6	5.1
I01892	G24423/2*TACANA, 115-11M	13	18.8	24.9	37.7	97.7	2.1	42.5	4.6
I92002	C-20*6/CN49-242 NAVY GENTEC, VISTA	6	18.6	24.5	38.5	96.7	2.4	46.1	4.0
B04431	I01892/JAGUAR	15	18.3	26.8	40.8	99.9	1.3	47.2	4.2
B95556	JAGUAR	9	18.3	22.6	40.6	95.2	1.1	37.4	4.9
I81066	SEL-BTS, T39	14	16.9	23.8	40.1	92.0	1.7	41.6	4.7
N97774	BUNSI/HURON, SEAHAWK	7	16.5	26.2	41.2	90.0	2.6	37.6	3.5
I07148	TARS SR05	1	16.4	27.4	44.8	95.3	2.5	40.0	3.6
B00101	PHANTOM/BLACKJACK, CONDOR	10	16.4	24.2	40.5	92.8	1.6	37.3	4.7
N05324	N00838/N00809//N00792	4	16.3	23.7	38.4	100.2	1.1	43.1	4.4
N05311	N03611/B01749	8	16.3	21.8	39.5	92.8	0.9	37.4	5.6
B05055	34-27/JAGUAR*2/SEL 1308//HR45/KABOON	11	15.2	22.0	41.3	97.7	1.1	37.8	3.4
B05039	35-5/JAGUAR*2/SEL 1308//HR45/KABOON	12	13.8	25.7	38.4	103.4	2.3	39.9	4.5
N61001	MIC62, MICHELITE	5	11.9	21.0	39.2	91.4	3.5	25.5	3.4
I81010	JAPON3/MAGDALENE, BUNSI	3	9.1	21.4	37.8	97.5	3.1	30.0	2.5
I07112	R99 - NON -NODULATING NAVY	2	7.8	18.9	38.6	106.1	3.6	44.0	2.2
AVERAGE OF PRECEDING 16 MEANS			15.6	23.7	39.9	96.2	2.0	39.0	4.1
LSD (P=.05)			3.7	1.2	1.4	2.5	0.7	3.3	0.7
LSD (P=.01)			4.8	1.5	1.9	3.3	0.9	4.3	1.0
COEFFICIENT OF VARIATION			16.7	3.5	2.6	1.9	23.3	6.0	12.8

EXPERIMENT 8938 CONVENTIONAL TRIAL MED & LG SEED @ GRATIOT CO

DATE 06/12/08

ENTRY	NAMES	NO.	YIELD CWT /ACRE	100 SEED WT.	DAYS TO FLOWER	DAYS TO MATURITY	LODGING	HEIGHT
S00809	R94142/X94076, SEDONA	6	22.4	42.2	36.5	85.0	2.5	60.0
P06131	P02646/P02630	4	20.0	49.6	36.7	80.0	1.0	40.0
R98026	R94037/R94161, MERLOT	7	19.1	42.7	35.3	80.0	1.0	50.0
I99117	(PT)ASG85-5051-7, BUSTER	2	17.9	43.7	36.5	82.5	3.0	55.0
P04205	P99119/G99750, SANTE FE	3	15.2	48.5	34.0	82.5	1.5	35.0
G93414	MATTERHORN	5	14.1	40.0	33.0	82.5	1.0	47.5
I84002	NW410/VICTOR/AURORA,GH215, OTHELLO	1	12.6	40.9	34.2	80.0	3.0	40.0
K03601	CN49242/3*MONT//REDKLOUD, CHINOOK SELECT	15	11.3	50.1	35.7	82.5	1.0	37.5
K74002	MDRK/CN(3)-HBR(NEB#1), MONTCALM	11	10.5	49.2	32.6	82.5	1.0	47.5
C99833	CARDINAL/K94803, CAPRI	8	10.0	52.7	32.4	80.0	1.0	32.5
I05101	USDK-CBB-15	10	9.9	50.0	37.1	82.5	1.0	46.5
I90013	(LRK)UCD, CELRK	13	9.6	51.0	30.7	80.0	1.0	32.5
K90101	CHAR/2*MONT, RED HAWK	12	9.2	47.2	35.1	82.5	1.5	35.0
K03240	REDHAWK 2*\NEGRO SAN LUIS-140	9	8.8	46.9	33.8	80.0	2.0	35.0
K05604	K00604/X02151	14	8.5	51.3	35.4	82.5	1.5	45.0
K90902	BEA/50B1807//LASSEN, BELUGA	16	7.9	49.6	34.5	82.5	1.5	32.5
AVERAGE OF PRECEDING 16 MEANS			12.9	47.2	34.6	81.7	1.5	42.0
LSD (P=.05)			2.6	2.8	1.1	1.5	0.3	4.1
LSD (P=.01)			3.4	3.6	1.4	1.9	0.4	5.3
COEFFICIENT OF VARIATION			14.1	4.1	2.3	1.3	15.3	6.9

DES.
SCORE

3.0
5.0
5.0
3.0
4.0

4.0
2.9
4.1
3.0
3.5

3.0
3.0
3.5
3.0
4.0
3.5

3.6
0.5
0.6
8.9
