**Report to the Oregon Processed Vegetable Commission**
**2007–2008**

1. Title: Green Bean Breeding and Evaluation

2. Project Leaders: James R. Myers, Horticulture

3. Cooperator: Brian Yorgey, Food Science and Technology

4. Project Status: Terminating 30 June, 2008

5. Project Funding:

| | |
|---|---|
| $39,378 | breeding |
| $8,698 | processing |
| $48,076 | total |

Breeding funds were used for a major portion of the support of a vegetable breeding technician, student labor, supplies, and research farm expenses. Processing funds were used for processing samples of experimental beans, laboratory analysis, and for student labor.

6. Objectives:

   1. Breed Bush Blue Lake green bean varieties with high economic yield and improved plant architecture.

   2. Improve pod characteristics including straightness, color, smoothness, texture, flavor and quality retention, and combine with delayed seed size development.

   3. Incorporate white mold resistance and improve root rot tolerance.

   4. Map genes for resistance to white mold to facilitate marker aided selection.

7. Report of Progress:

*Varietal Development:* The program continued with screening and selection in crosses among elite lines and commercial cultivars of green bean for varietal development. Advanced lines were grown at the Hermiston Research and Extension Center and were screened for heat tolerance and general adaptation to growing conditions east of the Cascades. Much of our current focus is on incorporating white mold resistance into a BBL background. Additional selections from OSU x OSU crosses were advanced and increased for replicated trials. Advanced lines were screened in replicated white mold field nurseries. An interspecific backcross inbred population with white mold resistance from scarlet runner bean was screened in a field nursery. Seed increase, roguing, and sub-line maintenance of the most promising lines was continued. In general, the growing season

in 2007 was more "normal" than past years, with a higher degree of cloud cover and moisture than the past two years. Growing conditions were excellent but the increased precipitation during the season and reduced solar insolation caused higher levels of white mold in our trials.

*Yield Trials*: We retained our current nursery structure of preliminary trials and a single advanced trial consisting mostly of commercial varieties for trial along with the most promising OSU lines. The two preliminary trials were planted May 18 and June 1, and the commercial yield trial, partially funded by seed companies, was planted June 21. Entries from one preliminary trial and those paid for by sponsoring seed companies in the commercial trial were processed at the OSU Pilot Plant for subsequent product evaluation.

Both preliminary trials had good growing conditions and showed reasonable yields (Tables 1 & 2, 6 & 7) although the May 18 trial had a high level of white mold infection. We were able to obtain data on white mold incidence and severity in this trial (Table 5). A number of full- and small-sieve lines in the May 18 trial showed high yields (Tables 1 & 2) and 11 full sieve lines out-performed OR91G. We are particularly interested in the 6400 and 6500 series lines as these show better BBL characteristics than the 6200 and 6300 series, and some may have improved white mold resistance. Nearly all 6200 and 6300 series lines have been dropped from the program although we are using some in crosses to incorporate their resistance into a better BBL background. The 6200 and 6300 series lines have resistance from NY6020 and Ascher DR whereas the 6400 series derives resistance from B7354-6-2-2. The latter line has a lower level of resistance, but does contribute a measurable effect, and is very compatible with our BBL material in general. Grading room evaluation and notes suggest that few of the 6200 and 6300 series are directly useable, but that the 6400 and 6500 series material holds good promise (Tables 3 & 4, 8 & 9). Much of this material is being tested for the first year, and will need additional testing to verify performance and quality.

**Five year average for selected OSU Minuette crosses and check lines**

| Line | Adjusted T/A | | | | | |
|---|---|---|---|---|---|---|
| | 2003 | 2004 | 2005 | 2006[z] | 2007[z] | Overall AV[y] |
| OR 91G | 12.5 | 12.6 | 3.8 | 12.1 | 8.7 | 9.9 |
| OR 54 | 13.4 | 16.4 | 9.2 | 10.7 | 11.0 | 12.1 |
| 5630 | 13.8 | 14.7 | 10.8 | 12.9 | 12.0 | 12.8 |
| 5613 | 9.3 | 5.0 | 5.1 | 5.7 | | 6.3 |
| 5669 | 16.0 | 12.5 | 8.5 | 10.4 | 10.6 | 11.6 |
| 6137 | 12.9 | 8.8 | 13.7 | 10.5 | 11.0 | 11.4 |
| 6174 | 11.0 | 8.1 | 9.5 | 7.3 | 8.1 | 8.8 |
| 6175 | 11.4 | 11.2 | 10.1 | 7.7 | | 10.1 |
| 6185 | 9.9 | 8.1 | 6.0 | | 9.3 | 8.3 |
| 6189 | 10.5 | 12.4 | 8.6 | 9.4 | 10.0 | 10.2 |
| $LSD_{0.05}$ | 2.8 | 3.9 | 2.9 | 3.0 | 2.3 | 2.5 |

[z]Average of 2 trials; all other years are from 1 trial only.

[y]5613, 6175 and 6185 were not included in overall average LSD calculation.

Several Minuette derived lines continue to perform well. Most promising in the full sieve class is OSU 6189, while OSU 6174 and OSU 6175 are 4- to 5sieve lines of interest. Five year average yield performance is shown in the text table (left). While OSU 6137 will on occasion have very high yields, its long term average is not

much different from OR91G. It does have darker green pod color and pods set high on the plant. With average pod set it stands well, but lodges with heavy set. OSU 6189 is very close to a BBL type but with significantly darker pod color and better growth habit. It is also interesting in that it shows more uniform growth habit across environments compared to other lines. Both are full sieve types. OSU 6174 and OSU 6175 are both 4 to 5-sieve types with upright growth habit, and pod characteristics similar to the BBL type.

In the June 1 trial, a nearly identical set of the 50 full sieve, 25 small sieve, and 6 checks were planted (Tables 6-9). Even though there was no white mold in this trial, yields were generally lower. Sixteen full sieve lines outperformed OR 91G. Taking into account yield and quality in the two trials, lines that performed the best were OSU 6471 and OSU 6501. It will take another year or so to identify the very best lines from this crossing series.

*Commercial Green Bean Trial*: The commercial trial consisted of 14 entries from four seed companies, 4 checks, and 6 OSU experimental lines (Tables 10-12). Savannah, from Harris Moran, was included as a small sieve check. The trial grew under near ideal conditions, which produced very lush growth. As a result, white mold became an issue towards the end of the harvest period, and may have reduced yields on late harvested entries. Overall production and $/A value was high (Tables 10 & 11, Figures 1 & 2). White mold incidence and severity were estimated in the commercial trial (Table 13). Disease pressure was very high and only six lines showed significantly lower levels than the most susceptible lines. Pierroton had only 30% incidence and a severity rating of 4.5, and should be investigated further as to whether its apparent resistance is physiological or architectural.

*Hermiston Trial*: Advanced lines were planted in a single rep observation trial at the Hermiston Research and Extension Center (Table 14). Approximately 190 lines were planted May 16, including Sahara (Harris Moran) as a heat tolerant check. Lines were evaluated at approximately harvest maturity for growth habit, pod quality (heat damage) and estimated yield. None of the seed for planting of these lines was treated with fungicide except for the Sahara commercial check. Most of the normal seed types showed good stand establishment, but the persistent chlorophyll types showed poor stands, and in many cases, failed to establish any stand at all. The single exception was OSU 6551 which showed only slight reduction in stand (Table 14). The trial proved useful in identifying lines that were particularly susceptible to heat damage. A few possible curly top virus infected plants were observed, but to date, this disease has not been a problem at this location.

*Breeding for White and Gray Mold Resistance:* In many ways, this was the ultimate white mold year; a good thing for screening for resistance, but not without its drawbacks. Disease pressure was extremely high in the early and late trials, and was severe enough to generally overwhelm partial resistance. The white mold data obtained from the first yield trial allowed us to examine the relationship between disease and yield parameters in a more rigorous manner than we have been able to do in the past. White mold incidence was significantly and positively correlated with days to harvest (text table below), but not with stand or yield. White mold severity was not correlated with any yield parameter. OSU 6241, an extensively tested line with moderate levels of white mold resistance de-

rived from NY6020, showed 62% incidence with low severity (Table 5). The 95% confidence interval about disease incidence for OSU 6241 was a rather large at 31 – 91%. The only line that showed significantly lower disease incidence was Savannah, mainly due to reduced levels of disease in the third and fourth reps. Savannah does show field resistance in our trials, but is susceptible when subjected to the greenhouse straw tests.

**Correlation among white mold disease and yield factors for green bean lines planted in a trial May 18.**

| | WM Severity | Days to Harvest | Stand[y] | % 1-4 sieve | T/A[x] |
|---|---|---|---|---|---|
| WM % Infected[z] | 0.39*** | 0.40*** | 0.00 ns | -0.35** | 0.03 ns |
| WM Severity[z] | | 0.17 ns | -0.15 ns | -0.14 ns | -0.18 ns |
| Days to Harvest | | | -0.06 ns | -0.51*** | 0.28* |
| Stand[y] | | | | 0.059 ns | 0.34** |
| % 1-4 sieve | | | | | -0.52*** |

[z]WM incidence rated as percent of plants infected in harvested area and severity rated on a scale of 1-6, 1=light, 6=heavy. [y]Percent of full stand. [x]Yield in tons/A.

A white mold trial was grown at the Vegetable Research Farm (Table 15). As with other trials this year, plant growth was lush and disease pressure was high with even our checks with partial resistance showing high levels of disease. Ranking of checks was similar to that observed in past years. We were particularly surprised to find a number of 6500 series lines among those showing partial resistance because these were derived from crosses between parents that were not known to have resistance (Table 15). Most, but not all of these lines had reduced stands, suggesting that their reduced canopy cover produced less than optimal conditions for disease. White mold incidence and growth habit were negatively correlated in the 2007 trial, indicating that architectural type probably influenced microenvironment and thereby severity of white mold infection (text table, below). Interestingly, higher yield and upright habit were positively correlated, and yield and white mold score were negatively correlated, suggesting that disease had an effect on yield, and this was influenced by growth habit. In a comparison of lines over eight years (Table 16), 2007 shows very different ranking from that of other years – perhaps an effect of the severity of the season. Ranking of lines tested in the past two years is shown in Table 17.

**Correlations among white mold and yield variables for a white mold field screening trial, Corvallis, 2007.**

| | Yield | Upright Habit |
|---|---|---|
| White Mold Scores | -0.20*** | -0.60*** |
| Yield | | 0.17*** |

***statistically significant at p<0.0001.

*Molecular mapping to transfer resistance from* Phaseolus coccineus *to* P. vulgaris: The best source of resistance to white mold resides in the related bean species, *P. coccineus* or scarlet runner bean. We have been developing backcross-inbred populations as a means of transferring resistance while regaining the snap bean type as rapidly as possible. We are furthest along with the cross 91G x PI 255956. The population was tested in the field in 2006 and in three straw tests in the greenhouse, and in an oxalate test (oxalate tolerance is related to white mold resistance). The population was again tested in 2007 (Table 18). Nine lines were not significantly

different from G122, our resistant check (six lines show similar levels to G122 in 2006). Analysis over two years shows 10 lines similar in performance to G122 (Table 19). These lines are genetically approximately 90% common bean and 10% scarlet runner bean, and as such, will require another cycle of recombination to move resistance into a completely adapted background. While they resemble BBL snap bean lines, they do show unusual traits such as an inclination to outcross. Such traits will need to be selected against. We will be testing these lines in our processing trials for the first time next year.

8. Summary:

We continued to emphasize breeding for white mold resistance in 2007. As such, we focused on preliminary yield and quality trials where we could evaluate larger numbers of lines. Two preliminary trials were conducted, and an advanced trial of commercial entries was evaluated. OSU 6400 and 6500 series lines look very good for yield and processing quality, and some have partial white mold resistance. White mold pressure was severe in all but the mid season trial and we were able to obtain useful data on most of our breeding material. To date, we have identified some lines that are fairly close to a BBL type with partial resistance to white mold, but additional refinement is required.

**Table 1. Performance of preliminary full sieve green bean lines, May 18 planting, Corvallis, 2007.[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] 1 | 2 | 3 | 4 | 5 | 6 | %1-4 Sieve | Av Tons/Acre | Av Adj Tons/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91G | 73 | full | 140 | 2.1 | 6.4 | 12.8 | 34.0 | 40.4 | 4.3 | 55.3 | 8.9 | 9.3 |
| OR 54 | 73 | full | 140 | 6.5 | 7.4 | 12.0 | 33.3 | 37.0 | 3.7 | 59.3 | 10.2 | 11.1 |
| 5630 | 70 | full | 123 | 2.6 | 7.8 | 14.8 | 57.4 | 17.4 | 0.0 | 82.6 | 10.6 | 14.1 |
| 5669 | 70 | full | 140 | 3.8 | 9.4 | 20.8 | 47.2 | 18.9 | 0.0 | 81.1 | 9.7 | 12.7 |
| 6137 | 70 | full | 140 | 3.1 | 15.6 | 31.3 | 41.7 | 7.3 | 1.0 | 91.7 | 8.9 | 12.6 |
| 6185 | 70 | full | 138 | 5.0 | 9.9 | 17.8 | 34.7 | 27.7 | 5.0 | 67.3 | 9.2 | 10.8 |
| 6189 | 73 | full | 136 | 8.0 | 8.8 | 15.0 | 30.1 | 31.0 | 7.1 | 61.9 | 9.8 | 11.0 |
| 6241 | 69 | full | 92 | 8.1 | 8.1 | 17.7 | 33.9 | 30.6 | 1.6 | 67.7 | 5.7 | 6.8 |
| 6279 | 70 | full | 140 | 9.0 | 12.4 | 18.0 | 33.7 | 24.7 | 2.2 | 73.0 | 8.4 | 10.4 |
| 6286 | 68 | 5 | 140 | 8.8 | 12.7 | 17.6 | 41.2 | 16.7 | 2.9 | 80.4 | 9.5 | 12.3 |
| 6436 | 70 | 5 | 140 | 7.9 | 13.9 | 20.8 | 42.6 | 14.9 | 0.0 | 85.1 | 9.7 | 13.2 |
| 6439 | 73 | 5 | 140 | 5.7 | 11.3 | 16.0 | 37.7 | 28.3 | 0.9 | 70.8 | 9.7 | 11.7 |
| 6440 | 73 | 5 | 140 | 3.2 | 14.7 | 22.1 | 35.8 | 23.2 | 1.1 | 75.8 | 8.3 | 10.4 |
| 6443 | 70 | 5 | 140 | 11.3 | 11.3 | 17.4 | 40.9 | 18.3 | 0.9 | 80.9 | 10.8 | 14.1 |
| 6445 | 70 | 5 | 124 | 11.2 | 14.0 | 18.7 | 38.3 | 16.8 | 0.9 | 82.2 | 9.8 | 13.0 |
| 6455 | 73 | 5 | 89 | 8.1 | 8.1 | 15.2 | 33.3 | 31.3 | 4.0 | 64.6 | 8.2 | 9.4 |
| 6463 | 73 | 5 | 140 | 4.7 | 9.3 | 14.0 | 35.5 | 35.5 | 0.9 | 63.6 | 10.0 | 11.4 |
| 6467 | 74 | full | 140 | 5.4 | 8.0 | 12.5 | 25.9 | 36.6 | 11.6 | 51.8 | 9.7 | 9.9 |
| 6469 | 74 | full | 140 | 5.0 | 10.1 | 16.0 | 42.0 | 25.2 | 1.7 | 73.1 | 10.6 | 13.1 |
| 6471 | 73 | full | 112 | 5.2 | 10.3 | 19.0 | 43.1 | 20.7 | 1.7 | 77.6 | 10.3 | 13.1 |
| 6474 | 75 | full | 140 | 6.4 | 9.6 | 16.8 | 36.8 | 27.2 | 3.2 | 69.6 | 11.2 | 13.5 |
| 6475 | 73 | 5 | 140 | 5.6 | 7.5 | 16.8 | 36.4 | 30.8 | 2.8 | 66.4 | 9.7 | 11.2 |
| 6477 | 74 | 5 | 140 | 3.7 | 9.3 | 15.0 | 41.1 | 29.9 | 0.9 | 69.2 | 10.2 | 12.1 |
| 6478 | 75 | full | 126 | 2.4 | 4.8 | 16.7 | 40.5 | 33.3 | 2.4 | 64.3 | 8.4 | 9.6 |
| 6479 | 70 | 5 | 134 | 8.4 | 12.6 | 23.2 | 44.2 | 11.6 | 0.0 | 88.4 | 8.9 | 12.2 |
| 6481 | 73 | 5 | 140 | 4.7 | 8.5 | 17.9 | 45.3 | 22.6 | 0.9 | 76.4 | 9.7 | 12.2 |
| 6484 | 75 | full | 140 | 6.1 | 10.1 | 16.2 | 35.4 | 31.3 | 1.0 | 67.7 | 9.0 | 10.7 |
| 6485 | 74 | full | 140 | 2.2 | 4.4 | 15.4 | 41.8 | 34.1 | 2.2 | 63.7 | 9.0 | 10.3 |
| 6489 | 73 | 5 | 140 | 5.4 | 8.9 | 17.9 | 40.2 | 27.7 | 0.0 | 72.3 | 10.4 | 12.7 |
| 6490 | 73 | full | 140 | 6.3 | 10.2 | 19.5 | 36.7 | 25.8 | 1.6 | 72.7 | 11.1 | 13.7 |
| 6493 | 73 | full | 140 | 3.8 | 7.6 | 16.2 | 38.1 | 33.3 | 1.0 | 65.7 | 9.9 | 11.5 |
| 6494 | 73 | 5 | 140 | 4.1 | 9.0 | 17.2 | 43.4 | 26.2 | 0.0 | 73.8 | 11.2 | 13.9 |
| 6497 | 73 | 5 | 140 | 4.9 | 7.8 | 16.5 | 39.8 | 29.1 | 1.9 | 68.9 | 9.5 | 11.3 |
| 6498 | 75 | full | 140 | 1.0 | 7.6 | 15.2 | 36.2 | 40.0 | 0.0 | 60.0 | 9.7 | 10.6 |
| 6501 | 73 | 5 | 126 | 3.2 | 8.1 | 16.9 | 39.5 | 30.6 | 1.6 | 67.7 | 11.4 | 13.4 |
| 6502 | 74 | 5 | 140 | 2.9 | 5.1 | 12.5 | 36.8 | 41.2 | 1.5 | 57.4 | 12.4 | 13.3 |
| 6504 | 73 | full | 140 | 3.1 | 7.1 | 13.3 | 41.8 | 32.7 | 2.0 | 65.3 | 8.9 | 10.2 |
| 6505 | 70 | full | 140 | 4.1 | 9.6 | 15.1 | 35.6 | 32.9 | 2.7 | 64.4 | 6.6 | 7.5 |
| 6506 | 73 | full | 117 | 4.0 | 7.0 | 14.0 | 32.0 | 40.0 | 3.0 | 57.0 | 9.0 | 9.7 |
| 6509 | 70 | 5 | 128 | 5.4 | 8.6 | 14.0 | 43.0 | 25.8 | 3.2 | 71.0 | 8.5 | 10.3 |
| 6510 | 74 | 5 | 140 | 6.7 | 6.7 | 11.8 | 42.9 | 30.3 | 1.7 | 68.1 | 10.6 | 12.5 |

**Table 1. Performance of preliminary full sieve green bean lines, May 18 planting, Corvallis, 2007 (cont.)[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] 1 | 2 | 3 | 4 | 5 | 6 | %1-4 Sieve | Av Tons/Acre | Av Adj Tons/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6511 | 73 | full | 132 | 5.8 | 9.3 | 20.9 | 44.2 | 18.6 | 1.2 | 80.2 | 7.7 | 10.1 |
| 6512 | 70 | full | 129 | 10.5 | 8.6 | 18.1 | 39.0 | 22.9 | 1.0 | 76.2 | 9.6 | 12.1 |
| 6513 | 75 | full | 132 | 7.3 | 9.8 | 19.5 | 46.3 | 17.1 | 0.0 | 82.9 | 7.0 | 9.3 |
| 6515 | 73 | full | 126 | 3.7 | 6.4 | 11.9 | 39.4 | 37.6 | 0.9 | 61.5 | 9.5 | 10.6 |
| 6516 | 74 | 5 | 110 | 4.3 | 8.6 | 15.1 | 51.6 | 19.4 | 1.1 | 79.6 | 8.3 | 10.7 |
| 6517 | 69 | 5 | 136 | 3.8 | 5.8 | 13.5 | 47.1 | 26.9 | 2.9 | 70.2 | 9.6 | 11.5 |
| 6518 | 74 | full | 140 | 5.9 | 20.6 | 29.4 | 38.2 | 5.9 | 0.0 | 94.1 | 6.2 | 8.9 |
| 6522 | 69 | 5 | 114 | 10.8 | 10.8 | 17.6 | 40.5 | 18.9 | 1.4 | 79.7 | 6.9 | 8.9 |
| 6525 | 70 | full | 140 | 3.5 | 8.0 | 17.7 | 46.9 | 23.0 | 0.9 | 76.1 | 10.4 | 13.0 |
| 6527 | 73 | full | 119 | 3.4 | 8.5 | 14.4 | 41.5 | 32.2 | 0.0 | 67.8 | 10.8 | 12.7 |
| 6528 | 75 | full | 136 | 6.3 | 10.4 | 18.8 | 45.8 | 18.8 | 0.0 | 81.3 | 8.9 | 11.6 |
| 6529 | 74 | 5 | 140 | 5.8 | 6.7 | 13.3 | 36.7 | 35.0 | 2.5 | 62.5 | 11.3 | 12.8 |
| 6530 | 73 | full | 140 | 3.2 | 6.4 | 14.9 | 33.0 | 37.2 | 5.3 | 57.4 | 8.8 | 9.4 |
| LSD 0.05 | | | | | | | | | | | 3.1 | 3.7 |

[z]Mean of 2 replications; subplots of 5' were harvested from 20' plots in rows 30" apart.

[y]Percent calculated as % of total of 1-6 sieve beans.

[x]Tons/Acre adjusted to 50% 1-4 sieve.

**Table 2. Performance of preliminary small sieve green bean lines, May 18 planting, Corvallis, 2007.[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] | | | | | | %1-4 Sieve | Av Tons/Acre |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 6174 | 73 | 4-5 | 136 | 8.0 | 9.8 | 16.1 | 39.3 | 25.9 | 0.9 | 73.2 | 10.0 |
| 6312-1 | 70 | 4-5 | 140 | 7.3 | 15.9 | 25.6 | 40.2 | 11.0 | 0.0 | 89.0 | 7.7 |
| 6329 | 69 | 4 | 140 | 5.6 | 14.4 | 27.8 | 46.7 | 5.6 | 0.0 | 94.4 | 8.3 |
| 6340 | 69 | 4-5 | 140 | 8.3 | 11.9 | 20.2 | 50.0 | 9.5 | 0.0 | 90.5 | 8.3 |
| 6342 | 68 | 4 | 140 | 6.7 | 13.5 | 25.8 | 43.8 | 10.1 | 0.0 | 89.9 | 7.0 |
| 6347 | 69 | 4 | 140 | 6.5 | 14.3 | 24.7 | 46.8 | 7.8 | 0.0 | 92.2 | 7.0 |
| 6348 | 68 | 4 | 140 | 8.5 | 17.0 | 24.5 | 45.7 | 4.3 | 0.0 | 95.7 | 9.8 |
| 6441 | 69 | 4-5 | 140 | 14.6 | 17.7 | 24.0 | 37.5 | 6.3 | 0.0 | 93.8 | 8.8 |
| 6442 | 73 | 4-5 | 140 | 6.0 | 10.4 | 16.4 | 32.8 | 32.1 | 2.2 | 65.7 | 12.3 |
| 6447 | 70 | 3 | 140 | 16.7 | 33.3 | 46.3 | 3.7 | 0.0 | 0.0 | 100.0 | 5.1 |
| 6449 | 69 | 3 | 140 | 15.9 | 36.4 | 43.2 | 4.5 | 0.0 | 0.0 | 100.0 | 4.1 |
| 6451 | 69 | 4-5 | 140 | 10.5 | 14.0 | 24.6 | 43.9 | 7.0 | 0.0 | 93.0 | 5.4 |
| 6452 | 69 | 4-5 | 139 | 7.3 | 9.8 | 23.2 | 51.2 | 8.5 | 0.0 | 91.5 | 7.2 |
| 6454 | 73 | 4-5 | 107 | 6.5 | 12.9 | 17.7 | 43.5 | 19.4 | 0.0 | 80.6 | 5.8 |
| 6456 | 69 | 4 | 140 | 7.8 | 9.8 | 20.6 | 53.9 | 7.8 | 0.0 | 92.2 | 9.4 |
| 6457 | 73 | 4 | 89 | 4.7 | 9.3 | 14.0 | 35.5 | 35.5 | 0.9 | 63.6 | 5.9 |
| 6464 | 69 | 4 | 132 | 14.3 | 18.6 | 22.9 | 41.4 | 2.9 | 0.0 | 97.1 | 6.5 |
| 6468 | 70 | 4 | 134 | 11.8 | 21.6 | 29.4 | 35.3 | 2.0 | 0.0 | 98.0 | 5.0 |
| 6482 | 73 | 4 | 125 | 10.5 | 17.5 | 26.3 | 35.1 | 10.5 | 0.0 | 89.5 | 5.1 |
| 6487 | 69 | 4-5 | 140 | 8.0 | 14.0 | 20.0 | 40.0 | 18.0 | 0.0 | 82.0 | 9.5 |
| 6496 | 73 | 4-5 | 140 | 4.9 | 7.8 | 16.5 | 39.8 | 29.1 | 1.9 | 68.9 | 9.1 |
| 6507 | 74 | 4 | 140 | 3.6 | 7.2 | 20.7 | 58.6 | 9.9 | 0.0 | 90.1 | 10.1 |
| 6519 | 73 | 4 | 140 | 12.1 | 22.4 | 34.5 | 27.6 | 3.4 | 0.0 | 96.6 | 5.0 |
| 6523 | 70 | 4-5 | 119 | 5.2 | 11.7 | 28.6 | 35.1 | 18.2 | 1.3 | 80.5 | 7.1 |
| 6526 | 73 | 3 | 115 | 11.9 | 16.9 | 30.5 | 35.6 | 5.1 | 0.0 | 94.9 | 5.2 |
| Medinah | 73 | 2-3 | 104 | 11.3 | 60.4 | 28.3 | 0.0 | 0.0 | 0.0 | 100.0 | 5.0 |
| Savannah | 73 | 4 | 140 | 2.4 | 12.1 | 40.3 | 43.5 | 1.6 | 0.0 | 98.4 | 10.9 |
| LSD 0.05 | | | | | | | | | | | 2.4 |

[z]Mean of 2 replications; subplots of 5' were harvested from 20' plots in rows 30" apart.

[y]Percent calculated as % of total of 1-6 sieve beans.

**Table 3. Notes on preliminary full sieve green bean lines, May 18 planting, Corvallis, 2007.**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section[y] | Pod Smooth-ness[x] | Pod Color[w] | Notes[v] |
|---|---|---|---|---|---|---|
| 91G | 16.0 | 4 | round | 5 | 5 | Split set with 5 sv getting quite seedy |
| OR 54 | 15.0 | 4 | round | 5 | 5 | Getting seedy without sizing up |
| 5630 | 15.5 | 5 | round | 5 | 5 | Probably prime in 2 days |
| 5669 | 15.0 | 6 | round | 6 | 5 | Probably prime in 2 days |
| 6137 | 17.0 | 8 | round | 6 | 8 | Very long, dark green, shiny bean; at least half ovals so does not grade properly |
| 6185 | 16.5 | 4 | round | 6 | 9 | Seed development just beginning in 5 & 6 sv |
| 6189 | 16.0 | 5 | round | 6 | 8 | Moderate seed development |
| 6241 | 12.0 | 5 | round | 7 | 6 | Very short 5 sv pods with seed development be-ginning; 3 & 4 sv pods look good |
| 6279 | 14.0 | 7 | oval | 4 | 2 | High fiber (shows at tip after going through grader); color too light |
| 6286 | 13.0 | 5 | round | 6 | 5 | Short, mostly curved pods; prime today |
| 6436 | 16.0 | 6 | round | 6 | 5 | Fairly smooth straight bean |
| 6439 | 15.5 | 7 | round | 7 | 5 | Long smooth pods; nice appearance |
| 6440 | 15.0 | 8 | round | 8 | 7 | Very attractive dark green, straight, smooth pods |
| 6443 | 16.5 | 7 | round | 6 | 5 | Very long straight attractive bean; probably prime in 2 days |
| 6445 | 15.0 | 5 | round | 5 | 4 | Contains ovals; split set |
| 6455 | 17.0 | 1 | heart | 9 | 3 | Long curly light pods |
| 6463 | 15.5 | 6 | round | 5 | 6 | Getting seedy without sizing up |
| 6467 | 15.5 | 4 | round | 7 | 5 | Long, slender, curved pods |
| 6469 | 15.0 | 7 | round | 5 | 6 | Getting quite seedy |
| 6471 | 14.5 | 7 | round | 6 | 4 | Seed development beginning |
| 6474 | 17.5 | 5 | round | 3 | 5 | Classic BBL type with long pods |
| 6475 | 16.0 | 5 | round | 5 | 5 | Seed development beginning |
| 6477 | 14.0 | 5 | heart | 7 | 6 | Seed development beginning |
| 6478 | 15.0 | 7 | round | 7 | 6 | Getting quite seedy |
| 6479 | 14.0 | 6 | round | 5 | 6 | Probably prime in 2 days |
| 6481 | 14.4 | 6 | round | 5 | 6 | Getting seedy without sizing up |
| 6484 | 15.0 | 6 | heart | 5 | 5 | Getting quite seedy |
| 6485 | 15.0 | 5 | round | 5 | 6 | Seed development beginning |
| 6489 | 14.5 | 6 | round | 5 | 5 | Getting seedy without sizing up |
| 6490 | 15.5 | 4 | round | 7 | 4 | Curved pods; color too light |
| 6493 | 15.5 | 8 | round | 7 | 5 | Straight smooth pods |
| 6494 | 15.5 | 5 | round | 5 | 5 | Contains oval mix |
| 6497 | 13.0 | 3 | round | 4 | 5 | Rough pods with many blanks. |
| 6498 | 15.0 | 6 | round | 7 | 6 | Smooth pods |
| 6501 | 15.5 | 6 | round | 7 | 5 | Getting seedy without sizing up |
| 6502 | 14.5 | 6 | heart | 5 | 5 | Curved pods |
| 6504 | 15.5 | 6 | round | 7 | 6 | Seed development beginning |

**Table 3. Notes on preliminary full sieve green bean lines, May 18 planting, Corvallis, 2007 (cont).**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section[y] | Pod Smooth-ness[x] | Pod Color[w] | Notes[v] |
|---|---|---|---|---|---|---|
| 6505 | 14.0 | 4 | round | 5 | 9 | Seems to contain both long smooth and short bumpy beans; contains ovals; short bumpy 5 sv quite seedy; long smooth 5 sv not at all but long smooth beans may be lighter color |
| 6506 | 15.5 | 7 | round | 7 | 9 | Nice looking; extreme green color |
| 6509 | 16.5 | 6 | round | 7 | 8 | Very long pods, quite straight for length; ends get chewed up in grader because beans are so long; prime today; makes very few 6 sv |
| 6510 | 15.0 | 7 | heart | 8 | 8 | Very attractive pods |
| 6511 | 16.6 | 7 | round | 7 | 8 | Very long, slender, elegant dark green pods |
| 6512 | 16.0 | 6 | heart | 5 | 5-8 | Color variable--about half 91G color and about half much darker; probably prime in 2 days |
| 6513 | 16.3 | 7 | round | 7 | 7 | Seed development beginning |
| 6515 | 16.0 | 8 | round | 8 | 9 | Very nice, uniformly extreme green, straight pods |
| 6516 | 15.0 | 7 | round | 7 | 6 | Getting seedy without sizing up |
| 6517 | 14.0 | 5 | cb | 7 | 7 | Has a shiny mix which is straighter but lighter color |
| 6518 | 13.5 | 4 | round | 7 | 7 | Extreme green type |
| 6522 | 17.0 | 5 | cb | 5 | 7 | Very long pods with good color; contains a lighter shorter mix; probably prime tomor-row |
| 6525 | 15.0 | 5 | round | 8 | 7 | Very smooth pods; probably prime tomor-row |
| 6527 | 14.0 | 7 | round | 5 | 8 | Straight, dark green pods |
| 6528 | 16.0 | 6 | cb | 8 | 6 | Very tall plants which seems to be stand-ing well |
| 6529 | 14.5 | 7 | cb | 6 | 8 | Attractive pods |
| 6530 | 16.0 | 6 | cb | 7 | 5 | Similar to 91G in appearance |

[z]Scores based on a 1-9 scale with 9 straightest
[y]Cross section: cb = crease-back
[x]Scores based on a 1-9 scale with 9 smoothest
[w]Scores based on a 1-9 scale with 9 darkest
[v]BBL=bush blue lake; sv=sieve

**Table 4. Notes on preliminary small sieve green bean lines, May 18 planting, Corvallis, 2007.**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section[y] | Pod Smooth-ness[x] | Pod Color[w] | Notes[v] |
|---|---|---|---|---|---|---|
| 6174 | 15.0 | 5 | round | 7 | 8 | Minimal seed dev |
| 6312-1 | 13.0 | 4 | heart | 5 | 5 | Split set; some 4 sv seedy, some not at all |
| 6329 | 13.5 | 5 | round | 7 | 6 | Prime today |
| 6340 | 14.0 | 5 | round | 5 | 6 | Probably prime tomorrow |
| 6342 | 13.0 | 7 | heart | 5 | 5 | Prime today; short but attractive; straight; may have oval tendency |
| 6347 | 12.5 | 3 | heart | 6 | 5 | Seed development beginning |
| 6348 | 14.0 | 5 | round | 6 | 4 | Consistent moderate curve; prime today |
| 6441 | 14.0 | 3 | round | 5 | 5 | Badly split set; looks very much like a smaller sv 91G |
| 6442 | 16.0 | 5 | round | 7 | 5 | Oval tendency; contains flats |
| 6447 | 12.0 | 6 | heart | 7 | 4 | Prime today |
| 6449 | 12.0 | 7 | heart | 6 | 3 | Color too light; slightly bumpy; prime today |
| 6451 | 14.0 | 1 | round | 4 | 2 | Very curved with hooks; color too light; probably prime in 2 days |
| 6452 | 12.0 | 6 | round | 5 | 4 | Color may be too light; prime today |
| 6454 | 13.0 | 7 | heart | 7 | 4 | Either split set or a mix--some 4 sv very long & seedy while others short and not seedy; also contains flats |
| 6456 | 15.0 | 5 | round | 5 | 5 | Looks like a smaller sv 91G: possibly straighter; somewhat split set |
| 6457 | 14.0 | 7 | oval | 5 | 1 | Oval; color too light |
| 6464 | 12.0 | 5 | heart | 6 | 5 | Prime today |
| 6468 | 14.0 | 5 | oval | 5 | 2 | Color too light; strong oval tend; prime today |
| 6482 | 13.0 | 7 | round | 7 | 7 | Very dark green interior |
| 6487 | 15.0 | 4 | round | 5 | 5 | appearance similar to 91G, possibly straighter; prime today |
| 6496 | 15.0 | 6 | heart | 5 | 5 | Some very long beans; probably prime tomorrow |
| 6507 | 15.0 | 4 | round | 5 | 6 | Moderate seed development |
| 6519 | 13.0 | 5 | round | 7 | 7 | Moderate seed development |
| 6523 | ? | ? | ? | ? | ? | Mix (about half and half) of a 4 sv, dark colored, smooth, straight, short bean, and a 5 sv, too light, curved, longer bean |
| 6526 | 12.0 | 6 | round | 7 | 7 | Little seed development |
| Medinah | 12.5 | 8 | round | 7 | 3 | Seed development beginning in 3 sv |
| Savannah | 15.0 | 9 | round | 8 | 7 | Moderate seed development |

[z]Scores based on a 1-9 scale with 9 straightest
[y]Cross section: cb = crease-back
[x]Scores based on a 1-9 scale with 9 smoothest
[w]Scores based on a 1-9 scale with 9 darkest
[v]sv=sieve

**Table 5. White mold incidence and severity in green bean lines, May 18 planting, Corvallis, 2007[z].**

| Line | Sieve Size | Total No. Plants | | % Infected | | Average % Infected | Severity |
|---|---|---|---|---|---|---|---|
| | | Rep 1 | Rep 2 | Rep 1 | Rep 2 | | |
| 91G | full | 38 | 39 | 79 | 90 | 85 | light to moderate |
| OR 54 | full | 26 | 45 | 96 | 93 | 95 | moderate |
| 5630 | full | 41 | 49 | 83 | 41 | 62 | light |
| 5669 | full | 36 | 37 | 97 | 73 | 85 | moderate |
| 6137 | full | 35 | 38 | 89 | 53 | 71 | light |
| 6174 | 4-5 | 38 | 35 | 82 | 74 | 78 | light |
| 6185 | full | 38 | 41 | 79 | 85 | 82 | moderate |
| 6189 | full | 39 | 41 | 95 | 85 | 90 | light |
| 6241 | full | 43 | 37 | 72 | 59 | 66 | light |
| 6279 | full | 34 | 32 | 79 | 91 | 85 | moderate |
| 6286 | 5 | 40 | 35 | 73 | 89 | 81 | moderate |
| 6312-1 | 4-5 | 35 | 31 | 74 | 94 | 84 | moderate |
| 6329 | 4 | 32 | 49 | 75 | 51 | 63 | light |
| 6340 | 4-5 | 41 | 31 | 83 | 81 | 82 | light |
| 6342 | 4 | 39 | 40 | 69 | 90 | 80 | moderate |
| 6347 | 4 | 30 | 48 | 50 | 83 | 67 | light |
| 6348 | 4 | 44 | 31 | 86 | 65 | 76 | light |
| 6436 | 5 | 37 | 33 | 89 | 58 | 74 | light |
| 6439 | 5 | 33 | 33 | 100 | 100 | 100 | moderate |
| 6440 | 5 | 31 | 33 | 94 | 100 | 97 | heavy |
| 6441 | 4-5 | 44 | 27 | 93 | 100 | 97 | moderate |
| 6442 | 4-5 | 38 | 40 | 100 | 83 | 92 | light to moderate |
| 6443 | 5 | 36 | 40 | 56 | 95 | 76 | light |
| 6445 | 5 | 30 | 50 | 80 | 76 | 78 | light |
| 6447 | 3 | 36 | 58 | 89 | 90 | 90 | moderate |
| 6449 | 3 | 34 | 36 | 76 | 64 | 70 | moderate |
| 6451 | 4-5 | 32 | 32 | 78 | 63 | 71 | moderate |
| 6452 | 4-5 | 36 | 42 | 72 | 62 | 67 | moderate |
| 6454 | 4-5 | 31 | 29 | 97 | 76 | 87 | moderate |
| 6455 | 5 | 32 | 28 | 88 | 56 | 72 | light to severe |
| 6456 | 4 | 37 | 35 | 73 | 94 | 84 | moderate |
| 6457 | 4 | 29 | 34 | 69 | 97 | 83 | moderate |
| 6463 | full | 46 | 49 | 89 | 78 | 84 | light |
| 6464 | 4 | 40 | 34 | 53 | 85 | 69 | light |
| 6467 | full | 51 | 42 | 92 | 98 | 95 | light to severe |
| 6468 | 4 | 36 | 39 | 100 | 54 | 77 | moderate |
| 6469 | full | 35 | 44 | 100 | 93 | 97 | moderate |
| 6471 | full | 42 | 23 | 98 | 83 | 91 | moderate to severe |
| 6474 | full | 31 | 40 | 97 | 78 | 88 | light |
| 6475 | 5 | 26 | 32 | 100 | 97 | 99 | moderate |
| 6477 | 5 | 38 | 39 | 95 | 95 | 95 | light to moderate |
| 6478 | full | 40 | 32 | 100 | 66 | 83 | moderate |
| 6479 | 5 | 35 | 34 | 51 | 100 | 76 | light to moderate |
| 6481 | 5 | 37 | 40 | 97 | 88 | 93 | moderate |

**Table 5. White mold incidence and severity in green bean lines, May 18 planting, Corvallis, 2007 (cont)[z].**

| Line | Sieve Size | Total No. Plants Rep 1 | Total No. Plants Rep 2 | % Infected Rep 1 | % Infected Rep 2 | Average % Infected | Severity |
|---|---|---|---|---|---|---|---|
| 6482 | 4 | 24 | 32 | 92 | 97 | 95 | light to moderate |
| 6484 | full | 43 | 29 | 65 | 100 | 83 | light to moderate |
| 6485 | full | 36 | 28 | 97 | 96 | 97 | light to severe |
| 6487 | 4-5 | 43 | 35 | 79 | 63 | 71 | light to moderate |
| 6489 | 5 | 44 | 37 | 93 | 62 | 78 | light to moderate |
| 6490 | full | 38 | 31 | 92 | 90 | 91 | light to moderate |
| 6493 | full | 38 | 39 | 89 | 79 | 84 | light |
| 6494 | 5 | 39 | 48 | 90 | 98 | 94 | light |
| 6496 | 4-5 | 35 | 29 | 60 | 100 | 80 | light to severe |
| 6497 | 5 | 33 | 25 | 97 | 100 | 99 | light to moderate |
| 6498 | full | 39 | 29 | 100 | 93 | 97 | moderate to severe |
| 6501 | 5 | 43 | 47 | 91 | 96 | 94 | moderate |
| 6502 | 5 | 41 | 46 | 95 | 96 | 96 | moderate |
| 6504 | full | 42 | 39 | 98 | 95 | 97 | light to moderate |
| 6505 | full | 38 | 43 | 66 | 100 | 83 | moderate |
| 6506 | full | 37 | 25 | 97 | 64 | 81 | light to moderate |
| 6507 | 4 | 31 | 46 | 81 | 76 | 79 | light |
| 6509 | 5 | 33 | 41 | 82 | 93 | 88 | light |
| 6510 | 5 | 28 | 32 | 57 | 84 | 71 | moderate |
| 6511 | full | 31 | 41 | 84 | 80 | 82 | light |
| 6512 | full | 35 | 34 | 89 | 74 | 82 | moderate |
| 6513 | full | 40 | 35 | 100 | 97 | 99 | moderate |
| 6515 | full | 34 | 30 | 97 | 100 | 99 | light to severe |
| 6516 | 5 | 31 | 40 | 87 | 100 | 94 | moderate |
| 6517 | 5 | 35 | 41 | 89 | 63 | 76 | moderate |
| 6518 | full | 40 | 42 | 83 | 90 | 87 | light to moderate |
| 6519 | 4 | 34 | 25 | 100 | 100 | 100 | moderate |
| 6522 | 5 | 28 | 30 | 86 | 100 | 93 | moderate |
| 6523 | 4-5 | 27 | 24 | 52 | 92 | 72 | light to moderate |
| 6525 | full | 29 | 39 | 90 | 51 | 71 | light |
| 6526 | 3 | 36 | 30 | 67 | 100 | 84 | light to severe |
| 6527 | full | 40 | 32 | 98 | 100 | 99 | light to moderate |
| 6528 | full | 40 | 38 | 100 | 82 | 91 | light |
| 6529 | 5 | 33 | 41 | 76 | 71 | 74 | light to moderate |
| 6530 | full | 38 | 43 | 95 | 74 | 85 | light |
| Medinah | 2-3 | 36 | 31 | 97 | 100 | 99 | moderate |
| Savan-nah | 4 | 33 | 41 | 13 | 7 | 10 | light |
| LSD 0.05 | | | | | | 29 | |

[z]Trial had lush, vigorous growth with high incidence of white mold, severely affecting yield in some cases. Percent infected based on actual counts at time of harvest.

**Table 6. Performance of preliminary full sieve green bean lines, June 1 planting, Corvallis, 2007.[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] 1 | 2 | 3 | 4 | 5 | 6 | %1-4 Sieve | Av Tons/Acre | Av Adj Tons/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91G | 61 | full | 100 | 3.9 | 4.9 | 5.8 | 23.3 | 47.6 | 14.6 | 37.9 | 9.0 | 8.0 |
| OR 54 | 62 | full | 100 | 1.6 | 4.0 | 7.9 | 32.5 | 38.9 | 15.1 | 46.0 | 11.3 | 10.9 |
| 5630 | 62 | full | 100 | 5.5 | 4.4 | 11.0 | 39.6 | 38.5 | 1.1 | 60.4 | 8.9 | 9.8 |
| 5669 | 62 | full | 100 | 2.3 | 8.0 | 14.8 | 27.3 | 39.8 | 8.0 | 52.3 | 8.4 | 8.5 |
| 6137 | 65 | full | 100 | 1.8 | 1.8 | 5.4 | 27.7 | 47.3 | 16.1 | 36.6 | 10.8 | 9.4 |
| 6185 | 62 | full | 100 | 5.2 | 4.2 | 7.3 | 21.9 | 42.7 | 18.8 | 38.5 | 8.7 | 7.7 |
| 6189 | 62 | full | 100 | 2.2 | 9.7 | 11.8 | 28.0 | 34.4 | 14.0 | 51.6 | 8.7 | 8.9 |
| 6241 | 62 | full | 100 | 1.8 | 3.6 | 10.9 | 30.9 | 41.8 | 10.9 | 47.3 | 5.7 | 5.6 |
| 6279 | 62 | full | 100 | 6.9 | 8.0 | 12.6 | 27.6 | 28.7 | 16.1 | 55.2 | 8.2 | 8.6 |
| 6286 | 60 | 5 | 100 | 3.6 | 8.4 | 12.0 | 33.7 | 36.1 | 6.0 | 57.8 | 7.4 | 8.0 |
| 6436 | 62 | 5 | 99 | 3.7 | 9.9 | 19.8 | 35.8 | 28.4 | 2.5 | 69.1 | 8.0 | 9.5 |
| 6439 | 62 | 5 | 97 | 2.2 | 8.8 | 16.5 | 35.2 | 35.2 | 2.2 | 62.6 | 8.3 | 9.3 |
| 6440 | 62 | 5 | 100 | 3.9 | 9.8 | 17.6 | 34.3 | 33.3 | 1.0 | 65.7 | 9.7 | 11.3 |
| 6443 | 62 | 5 | 100 | 2.8 | 7.4 | 13.9 | 34.3 | 35.2 | 6.5 | 58.3 | 9.6 | 10.3 |
| 6445 | 62 | 5 | 100 | 2.3 | 9.3 | 20.9 | 33.7 | 29.1 | 4.7 | 66.3 | 8.2 | 9.5 |
| 6455 | 65 | 5 | 94 | 4.4 | 5.5 | 14.3 | 48.4 | 27.5 | 0.0 | 72.5 | 8.4 | 10.3 |
| 6463 | 65 | 5 | 88 | 4.5 | 4.5 | 10.7 | 33.0 | 36.6 | 10.7 | 52.7 | 9.6 | 9.9 |
| 6467 | 65 | full | 100 | 3.3 | 3.3 | 9.8 | 30.1 | 42.3 | 11.4 | 46.3 | 10.6 | 10.2 |
| 6469 | 66 | full | 100 | 2.7 | 4.5 | 7.3 | 41.8 | 39.1 | 4.5 | 56.4 | 9.9 | 10.5 |
| 6471 | 66 | full | 100 | 2.9 | 2.9 | 8.8 | 40.9 | 37.2 | 7.3 | 55.5 | 12.4 | 13.1 |
| 6474 | 65 | full | 100 | 3.9 | 6.8 | 12.6 | 38.8 | 31.1 | 6.8 | 62.1 | 9.4 | 10.5 |
| 6475 | 62 | 5 | 100 | 6.1 | 17.1 | 24.4 | 34.1 | 15.9 | 2.4 | 81.7 | 7.5 | 9.9 |
| 6477 | 65 | 5 | 100 | 2.5 | 5.0 | 16.0 | 47.9 | 26.1 | 2.5 | 71.4 | 10.9 | 13.2 |
| 6478 | 66 | full | 100 | 1.6 | 3.1 | 7.9 | 44.1 | 38.6 | 4.7 | 56.7 | 11.5 | 12.3 |
| 6479 | 65 | 5 | 100 | 3.4 | 5.1 | 12.7 | 44.1 | 32.2 | 2.5 | 65.3 | 10.4 | 12.0 |
| 6481 | 65 | 5 | 100 | 1.4 | 4.2 | 13.4 | 45.8 | 31.0 | 4.2 | 64.8 | 11.9 | 13.7 |
| 6484 | 66 | full | 100 | 3.7 | 3.0 | 11.1 | 39.3 | 37.0 | 5.9 | 57.0 | 12.4 | 13.2 |
| 6485 | 67 | full | 100 | 2.2 | 2.9 | 6.5 | 31.9 | 49.3 | 7.2 | 43.5 | 12.9 | 12.1 |
| 6489 | 65 | 5 | 100 | 4.2 | 5.0 | 13.3 | 45.8 | 26.7 | 5.0 | 68.3 | 10.4 | 12.2 |
| 6490 | 66 | full | 100 | 4.0 | 4.0 | 8.8 | 40.0 | 40.0 | 3.2 | 56.8 | 11.3 | 12.1 |
| 6493 | 67 | full | 95 | 3.3 | 3.3 | 6.7 | 31.3 | 50.7 | 4.7 | 44.7 | 13.7 | 13.0 |
| 6494 | 65 | 5 | 100 | 3.5 | 4.4 | 14.9 | 50.9 | 24.6 | 1.8 | 73.7 | 10.2 | 12.6 |
| 6497 | 65 | 5 | 100 | 1.8 | 5.3 | 16.7 | 50.9 | 23.7 | 1.8 | 74.6 | 10.4 | 12.9 |
| 6498 | 65 | full | 100 | 3.3 | 4.9 | 14.8 | 45.9 | 27.0 | 4.1 | 68.9 | 10.8 | 12.8 |
| 6501 | 66 | 5 | 100 | 1.5 | 3.7 | 9.7 | 38.8 | 40.3 | 6.0 | 53.7 | 11.7 | 12.1 |
| 6502 | 65 | 5 | 91 | 3.8 | 5.7 | 15.2 | 45.7 | 25.7 | 3.8 | 70.5 | 9.4 | 11.4 |
| 6504 | 65 | full | 100 | 2.8 | 2.8 | 3.8 | 20.8 | 54.7 | 15.1 | 30.2 | 9.5 | 7.6 |
| 6505 | 62 | full | 84 | 2.4 | 7.3 | 12.2 | 36.6 | 35.4 | 6.1 | 58.5 | 7.6 | 8.3 |
| 6512 | 65 | full | 43 | 1.1 | 4.4 | 6.7 | 28.9 | 45.6 | 13.3 | 41.1 | 9.0 | 8.2 |
| 6516 | 62 | 5 | 89 | 5.1 | 5.1 | 12.7 | 44.3 | 31.6 | 1.3 | 67.1 | 6.9 | 8.0 |
| 6518 | 67 | full | 95 | 4.1 | 5.5 | 11.0 | 35.6 | 37.0 | 6.8 | 56.2 | 6.5 | 6.9 |

**Table 6. Performance of preliminary full sieve green bean lines, June 1 planting, Corvallis, 2007 (cont).[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] 1 | 2 | 3 | 4 | 5 | 6 | %1-4 Sieve | Av Tons/Acre | Av Adj Tons/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6525 | 62 | full | 100 | 4.7 | 7.1 | 16.5 | 38.8 | 30.6 | 2.4 | 67.1 | 7.3 | 8.6 |
| 6528 | 67 | full | 100 | 1.7 | 1.7 | 5.2 | 26.1 | 60.9 | 4.3 | 34.8 | 9.8 | 8.4 |
| 6529 | 65 | 5 | 93 | 1.3 | 5.1 | 12.7 | 53.2 | 25.3 | 2.5 | 72.2 | 7.3 | 8.9 |
| LSD 0.05 | | | | | | | | | | | 2.4 | 2.6 |

[z]Mean of 2 replications; subplots of 5' were harvested from 20' plots in rows 30" apart.
[y]Percent calculated as % of total of 1-6 sieve beans.
[x]Tons/Acre adjusted to 50% 1-4 sieve.

**Table 7. Performance of preliminary small sieve green bean lines, June 1 planting, Corvallis, 2007.[z]**

| Line | Days to Harvest | Est. Sieve Size | Stand | Percent Sieve Size[y] 1 | 2 | 3 | 4 | 5 | 6 | %1-4 Sieve | Av Tons/Acre |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6174 | 62 | 4-5 | 100 | 9.7 | 14.5 | 21.0 | 35.5 | 19.4 | 0.0 | 80.6 | 6.1 |
| 6312-1 | 62 | 4-5 | 100 | 4.0 | 7.0 | 15.0 | 30.0 | 37.0 | 7.0 | 56.0 | 9.5 |
| 6329 | 60 | 4 | 89 | 6.8 | 13.6 | 20.3 | 39.0 | 20.3 | 0.0 | 79.7 | 5.2 |
| 6340 | 62 | 4-5 | 100 | 6.2 | 7.4 | 14.8 | 30.9 | 30.9 | 9.9 | 59.3 | 7.3 |
| 6342 | 60 | 4 | 99 | 7.2 | 17.4 | 20.3 | 40.6 | 14.5 | 0.0 | 85.5 | 6.6 |
| 6347 | 62 | 4 | 100 | 4.5 | 6.8 | 15.9 | 37.5 | 31.8 | 3.4 | 64.8 | 7.7 |
| 6348 | 60 | 4 | 100 | 6.8 | 10.2 | 18.2 | 39.8 | 23.9 | 1.1 | 75.0 | 9.1 |
| 6441 | 62 | 4-5 | 87 | 7.4 | 11.6 | 18.9 | 32.6 | 25.3 | 4.2 | 70.5 | 8.5 |
| 6442 | 62 | 4-5 | 100 | 5.6 | 11.1 | 18.9 | 37.8 | 24.4 | 2.2 | 73.3 | 8.2 |
| 6447 | 62 | 3 | 100 | 6.6 | 16.4 | 52.5 | 24.6 | 0.0 | 0.0 | 100.0 | 5.7 |
| 6449 | 62 | 3 | 100 | 11.9 | 20.3 | 42.4 | 25.4 | 0.0 | 0.0 | 100.0 | 5.5 |
| 6451 | 62 | 4-5 | 100 | 4.9 | 8.2 | 19.7 | 45.9 | 19.7 | 1.6 | 78.7 | 5.6 |
| 6452 | 62 | 4-5 | 94 | 2.5 | 5.1 | 12.7 | 43.0 | 32.9 | 3.8 | 63.3 | 6.8 |
| 6454 | 62 | 4-5 | 88 | 3.3 | 6.6 | 11.5 | 47.5 | 29.5 | 1.6 | 68.9 | 6.2 |
| 6456 | 62 | 4 | 100 | 5.1 | 5.1 | 11.1 | 45.5 | 31.3 | 2.0 | 66.7 | 10.4 |
| 6457 | 65 | 4 | 78 | 3.3 | 6.6 | 19.7 | 55.7 | 14.8 | 0.0 | 85.2 | 5.9 |
| 6468 | 62 | 4 | 100 | 7.5 | 23.9 | 28.4 | 32.8 | 7.5 | 0.0 | 92.5 | 6.0 |
| 6487 | 62 | 4-5 | 100 | 3.1 | 19.6 | 13.4 | 29.9 | 25.8 | 8.2 | 66.0 | 7.3 |
| 6496 | 65 | 4-5 | 100 | 0.9 | 4.3 | 14.7 | 46.6 | 28.4 | 5.2 | 66.4 | 10.8 |
| Savannah | 65 | 4 | 100 | 1.4 | 10.0 | 45.7 | 42.9 | 0.0 | 0.0 | 100.0 | 6.6 |
| LSD 0.05 | | | | | | | | | | | 2.9 |

[z]Mean of 2 replications; subplots of 5' were harvested from 20' plots in rows 30" apart.
[y]Percent calculated as % of total of 1-6 sieve beans.

**Table 8. Notes on preliminary full sieve green bean lines, June 1 planting, Corvallis, 2007[z].**

| Line | Pod Length (cm) | Pod Straight-ness[y] | Pod Cross Section[x] | Pod Smooth-ness[w] | Pod Color[v] | Flavor[u] | | Notes[t] |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | |
| 91G | 17.5 | 6 | round to cb | 7 | 6 | 7 | 7 | 5 and 6 sv are seedy and getting cb |
| OR 54 | 15.0 | 5 | round | 5 | 5 | 7 | 7 | Segregating for immature white seeds |
| 5630 | 15.0 | 5 | round | 5 | 5 | 7 | 7 | Segregating for strings |
| 5669 | 14.0 | 7 | round | 5 | 5 | 7 | 7 | Moderate seed development |
| 6137 | 15.0 | 7 | round | 5 | 8 | 7 | 5 | Holding well at 37% 1-4 sv |
| 6185 | 15.5 | 6 | round | 4 | 7 | 3 | 7 | Holding well; pods are bumpy but not particularly seedy |
| 6189 | 15.5 | 7 | round | 6 | 7 | 3 | 7 | Best of Minuette crosses; BBL pods but extreme green; segregat-ing strings |
| 6241 | 11.5 | 7 | round | 4 | 6 | 7 | 5 | Very short pods |
| 6279 | 16.0 | 7 | round | 5 | 5 | 7 | 3 | Segregating strings; moderate seed development |
| 6286 | 15.0 | 6 | heart-round | 7 | 5 | 7 | 3 | Moderate seed development |
| 6436 | 15.0 | 7 | round | 6 | 5 | 5 | 3 | Segregating ovals; getting seedy |
| 6439 | 14.0 | 6 | round | 4 | 5 | 7 | 7 | Getting seedy |
| 6440 | 15.5 | 7 | round | 5 | 5 | 7 | 7 | Getting seedy |
| 6443 | 15.0 | 5 | heart | 5 | 5 | 7 | 7 | Getting seedy |
| 6445 | 14.5 | 5 | round | 5 | 5 | 7 | 6 | Segregating strings; moderate seed development |
| 6455 | 14.5 | 5 | oval to round | 6 | 5 | 7 | 9 | Tough texture; getting seedy without sizing up |
| 6463 | 15.0 | 7 | round | 5 | 5 | 7 | 7 | Getting seedy |
| 6467 | 16.0 | 5 | round | 5 | 5 | 7 | 7 | Getting seedy |
| 6469 | 16.0 | 7 | round | 8 | 6 | 7 | 7 | Smooth pods but tough texture; large seeds |
| 6471 | 14.0 | 6 | round | 7 | 6 | 5 | 3 | Seedy and bumpy in 6 sv |
| 6474 | 16.5 | 5 | round | 6 | 5 | 7 | 5 | Getting seedy |
| 6475 | 15.0 | 5 | round | 5 | 5 | 7 | 7 | Contains oval off type; getting seedy without sizing up |
| 6477 | 15.0 | 6 | round | 7 | 5 | 7 | 7 | Mixed seed development; may be a mix |
| 6478 | 15.0 | 7 | round | 7 | 6 | 7 | 5 | Straight beans; uniform size; moderately seedy |
| 6479 | 14.0 | 7 | round | 6 | 5 | 7 | 7 | V. seedy 6 sv, Seedy 4 & 5 sv; very nice appearance. |
| 6481 | 14.5 | 6 | round | 7 | 5 | 7 | 8 | Very attractive pod; getting seedy |
| 6484 | 15.0 | 5 | round | 6 | 5 | 5 | 7 | Very seedy and bumpy in 6 sv |
| 6485 | 15.0 | 6 | round | 5 | 5 | 5 | 7 | Contains light colored off-type; mixed seed development; may be a mix |

**Table 8. Notes on preliminary full sieve green bean lines, June 1 planting, Corvallis, 2007[z] (cont).**

| Line | Pod Length (cm) | Pod Straight-ness[y] | Pod Cross Section[x] | Pod Smooth-ness[w] | Pod Color[v] | Flavor[u] | | Notes[t] |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | |
| 6489 | 15.0 | 7 | round | 7 | 5 | 7 | 8 | Very attractive pod; getting seedy |
| 6490 | 16.0 | 8 | round | 7 | 6 | 5 | 8 | Long straight pods but 6 sv getting seedy and bumpy |
| 6493 | 15.0 | 5 | round | 6 | 5 | 8 | 6 | High yielding and generally high quality bean, but does contain some short junky pods in this trial |
| 6494 | 14.0 | 6 | round | 4 | 5 | 7 | 7 | Getting seedy and bumpy |
| 6497 | 14.5 | 5 | round | 6 | 5 | 7 | 7 | Getting seedy |
| 6498 | 15.5 | 7 | round | 6 | 5 | 7 | 7 | Tough texture; segregating for light colored off-type; getting seedy |
| 6501 | 14.0 | 5 | round | 5 | 7 | 7 | 7 | Getting seedy in 4 & 5 sv; 5 sv very bumpy |
| 6502 | 13.5 | 6 | round | 5 | 5 | 7 | 7 | Getting quite seedy |
| 6504 | 12.0 | 4 | round | 5 | 7 | 3 | 9 | Short pods; holding well; pc type |
| 6505 | 15.5 | 7 | round | 7 | 7 | 7 | 9 | Pc type pods uniformly colored; moderate seed development in 6 sv |
| 6512 | 16.0 | 5 | round | 5 | 6 | 5 | 7 | Difficult to pick--pods do not detach easily; segregating for strings, particularly apparent in 6 sv |
| 6516 | 15.0 | 5 | round | 8 | 5 | 5 | 7 | Pc appearance but pods normal color; getting seedy |
| 6518 | 14.0 | 6 | round | 7 | 7 | 7 | 8 | Pc type pods uniformly colored; moderate seed development |
| 6525 | 14.0 | 7 | round | 7 | 5 | 7 | 5 | Very attractive pods; moderate seed development |
| 6528 | 14.0 | 4 | round | 7 | 5 | 7 | 7 | Holding well |
| 6529 | 14.5 | 5 | oval to round | 7 | 8 | 5 | 7 | Pc type with very nice color; pods a bit short; getting seedy |

[z]There was no white mold in this trial. Plant vigor was generally reduced due to many years of beans in this field. There were germination problems, sometimes severe, especially in the persistent color (pc) types; some of these lines were discarded in this trial due to very poor stands. [y]Scores based on a 1-9 scale with 9 straightest. [x]Cross section: cb = crease-back. [w]Scores based on a 1-9 scale with 9 smoothest. [v]Scores based on a 1-9 scale with 9 darkest. [u]Scores based on a 1-9 scale with 9 strongest. [t]BBL=bush blue lake; sv=sieve; pc=persistent color.

**Table 9. Notes on preliminary small sieve green bean lines, June 1 planting, Corvallis, 2007[z].**

| Line | Pod Length (cm) | Pod Straight-ness[y] | Pod Cross Section[x] | Pod Smooth-ness[w] | Pod Color[v] | Flavor[u] | | Notes[t] |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | |
| 6174 | 15.0 | 7 | round | 7 | 5 | 7 | 5 | Nice smooth straight BBL bean; moderate seed development |
| 6312-1 | 15.5 | 4 | round | 6 | 5 | 7 | 7 | Getting seedy; 3 sv junky |
| 6329 | 13.0 | 7 | round | 7 | 5 | 3 | 7 | Moderate seed development |
| 6340 | 15.0 | 5 | heart to round | 5 | 5 | 5 | 5 | Moderate seed development in 5 sv and be-ginning in 4 sv |
| 6342 | 14.0 | 7 | round | 7 | 5 | 3 | 7 | Getting seedy |
| 6347 | 10.5 | 7 | round | 1 | 4 | 5 | 7 | Short junky pods with many blanks |
| 6348 | 14.0 | 7 | round | 7 | 5 | 5 | 5 | Moderate seed development |
| 6441 | 15.5 | 5 | heart to round | 5 | 5 | 7 | 5 | Getting seedy |
| 6442 | 15.0 | 7 | round | 7 | 5 | 5 | 7 | Moderate seed development |
| 6447 | 13.5 | 8 | heart to round | 8 | 6 | 5 | 5 | Straight fillet type pods |
| 6449 | 12.5 | 8 | heart to round | 8 | 4 | 1 | 9 | Bitter flavor; color too light; no seed develop-ment in 3 sv |
| 6451 | 15.5 | 5 | oval to round | 7 | 1 | 7 | 5 | Very long slender pods but light colored; dis-card |
| 6452 | 14.5 | 6 | round | 5 | 5 | 7 | 7 | Moderate seed development |
| 6454 | 15.0 | 5 | round | 6 | 5 | 5 | 7 | Getting seedy |
| 6456 | 15.0 | 4 | round | 4 | 5 | 7 | 7 | Getting seedy |
| 6457 | 12.0 | 8 | round | 8 | 4 | 7 | 7 | Moderate seed development |
| 6468 | 14.0 | 8 | oval to round | 8 | 3 | 7 | 5 | Very smooth, straight pods but probably high fiber; color too light; 4 sv getting seedy |
| 6487 | 15.0 | 5 | round | 6 | 6 | 5 | 7 | Getting seedy |
| 6496 | 15.5 | 6 | round | 6 | 5 | 7 | 7 | Getting seedy |
| Savannah | 13.5 | 9 | round | 8 | 7 | 5 | 7 | Very straight, shiny pods; getting seedy; not very productive in field under stress conditions |

[z]There was no white mold in this trial. Plant vigor was generally reduced due to many years of beans in this field. There were germination problems, sometimes severe, especially in the persistent color (pc) types; some of these lines were discarded in this trial due to very poor stands. [y]Scores based on a 1-9 scale with 9 straightest; [x]Cross section: cb = crease-back; [w]Scores based on a 1-9 scale with 9 smoothest; [v]Scores based on a 1-9 scale with 9 darkest; [u]Scores based on a 1-9 scale with 9 strongest; [t]BBL=bush blue lake; sv=sieve; pc=persistent color.

**Table 10. Performance of commercial green bean varieties, June 21 planting, Corvallis, 2007.**

| Variety | Source | AV Stand | Intended Use | Days | Percent Sieve Size[z] | | | | | | | Tons/Acre Sieve Size | | | | | | Graded Total[y] | $/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 1-4 | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 91G | OSU | 150 | full sieve | 62 | 5.1 | 5.5 | 9.0 | 20.8 | 42.4 | 17.3 | 40.4 | 0.57 | 0.61 | 1.00 | 2.31 | 4.70 | 1.91 | 11.09 | 1861 |
| | | | | 64 | 2.8 | 3.7 | 8.8 | 20.9 | 42.8 | 20.9 | 36.3 | 0.26 | 0.35 | 0.83 | 1.96 | 4.00 | 1.96 | 9.35 | 1510* |
| OR 54 | OSU | 150 | full sieve | 64 | 6.9 | 9.9 | 17.6 | 35.1 | 23.7 | 6.9 | 69.5 | 0.78 | 1.13 | 2.00 | 4.00 | 2.70 | 0.78 | 11.40 | 2419* |
| | | | | 67 | 3.6 | 5.9 | 11.4 | 31.8 | 40.5 | 6.8 | 52.7 | 0.35 | 0.57 | 1.09 | 3.05 | 3.87 | 0.65 | 9.57 | 1786 |
| 5630 | OSU | 150 | full sieve | 64 | 5.1 | 6.2 | 13.0 | 37.3 | 32.8 | 5.6 | 61.6 | 0.39 | 0.48 | 1.00 | 2.87 | 2.52 | 0.44 | 7.70 | 1542* |
| | | | | 67 | 3.3 | 4.9 | 11.4 | 35.0 | 39.0 | 6.5 | 54.5 | 0.17 | 0.26 | 0.61 | 1.87 | 2.09 | 0.35 | 5.35 | 1013 |
| 6137 | OSU | 150 | full sieve | 64 | 4.7 | 6.8 | 14.9 | 33.6 | 31.9 | 8.1 | 60.0 | 0.48 | 0.70 | 1.52 | 3.44 | 3.26 | 0.83 | 10.22 | 2022* |
| | | | | 67 | 3.9 | 4.5 | 7.3 | 24.7 | 45.5 | 14.0 | 40.4 | 0.30 | 0.35 | 0.57 | 1.91 | 3.52 | 1.09 | 7.74 | 1300 |
| 6185 | OSU | 150 | full sieve | 62 | 5.2 | 7.9 | 12.7 | 25.8 | 34.5 | 14.0 | 51.5 | 0.52 | 0.78 | 1.26 | 2.57 | 3.44 | 1.39 | 9.96 | 1841* |
| | | | | 64 | 5.3 | 7.1 | 11.2 | 24.1 | 35.9 | 16.5 | 47.6 | 0.39 | 0.52 | 0.83 | 1.78 | 2.65 | 1.22 | 7.40 | 1323 |
| 6189 | OSU | 150 | full sieve | 64 | 4.0 | 6.0 | 10.0 | 25.2 | 38.8 | 16.0 | 45.2 | 0.44 | 0.65 | 1.09 | 2.74 | 4.22 | 1.74 | 10.88 | 1905* |
| 6338 | OSU | 150 | full sieve | 64 | 5.1 | 5.8 | 9.8 | 24.6 | 40.6 | 14.1 | 45.3 | 0.61 | 0.70 | 1.17 | 2.96 | 4.87 | 1.70 | 12.01 | 2105* |
| | | | | 67 | 2.6 | 4.3 | 9.1 | 28.4 | 43.5 | 12.1 | 44.4 | 0.26 | 0.44 | 0.91 | 2.87 | 4.39 | 1.22 | 10.09 | 1755 |
| PLS 2196 | Pureline | 148 | full sieve | 62 | 8.3 | 10.8 | 16.7 | 35.3 | 23.5 | 5.4 | 71.1 | 0.74 | 0.96 | 1.48 | 3.13 | 2.09 | 0.48 | 8.87 | 1906 |
| | | | | 64 | 5.7 | 9.9 | 17.5 | 37.3 | 22.2 | 7.5 | 70.3 | 0.52 | 0.91 | 1.61 | 3.44 | 2.04 | 0.70 | 9.22 | 1969 |
| | | | | 67 | 3.2 | 7.5 | 16.7 | 39.8 | 29.0 | 3.8 | 67.2 | 0.26 | 0.61 | 1.35 | 3.22 | 2.35 | 0.30 | 8.09 | 1690 |
| Hunting-ton | Syngenta | 150 | full sieve | 62 | 7.3 | 13.2 | 20.1 | 32.0 | 26.5 | 0.9 | 72.6 | 0.70 | 1.26 | 1.91 | 3.05 | 2.52 | 0.09 | 9.53 | 2068 |
| | | | | 64 | 6.3 | 10.0 | 14.6 | 28.9 | 36.0 | 4.2 | 59.8 | 0.65 | 1.04 | 1.52 | 3.00 | 3.74 | 0.44 | 10.40 | 2054 |
| | | | | 67 | 3.9 | 5.0 | 10.8 | 27.0 | 47.1 | 6.2 | 46.7 | 0.44 | 0.57 | 1.22 | 3.05 | 5.31 | 0.70 | 11.27 | 2000 |
| 6436 | OSU | 150 | 5 sieve | 64 | 9.4 | 10.2 | 17.6 | 37.1 | 22.9 | 2.9 | 74.3 | 1.00 | 1.09 | 1.87 | 3.96 | 2.44 | 0.30 | 10.66 | 2341* |
| | | | | 67 | 4.3 | 6.5 | 13.4 | 33.6 | 37.5 | 4.7 | 57.8 | 0.44 | 0.65 | 1.35 | 3.39 | 3.78 | 0.48 | 10.09 | 1962 |
| 6445 | OSU | 150 | 5 sieve | 63 | 9.4 | 12.3 | 19.2 | 37.4 | 19.2 | 2.5 | 78.3 | 0.83 | 1.09 | 1.70 | 3.31 | 1.70 | 0.22 | 8.83 | 1994 |
| | | | | 65 | 7.4 | 9.3 | 15.3 | 35.2 | 30.1 | 2.8 | 67.1 | 0.70 | 0.87 | 1.44 | 3.31 | 2.83 | 0.26 | 9.40 | 1961* |
| | | | | 67 | 3.7 | 5.8 | 11.9 | 31.3 | 42.4 | 4.9 | 52.7 | 0.39 | 0.61 | 1.26 | 3.31 | 4.48 | 0.52 | 10.57 | 1972 |
| 08120693 | Seminis | 150 | 5 sieve | 64 | 6.3 | 10.6 | 24.9 | 43.9 | 14.3 | 0.0 | 85.7 | 0.52 | 0.87 | 2.04 | 3.61 | 1.17 | 0.00 | 8.22 | 1950* |
| | | | | 67 | 4.2 | 6.1 | 16.4 | 44.8 | 24.2 | 4.2 | 71.5 | 0.30 | 0.44 | 1.17 | 3.22 | 1.74 | 0.30 | 7.18 | 1546 |
| SB 4359 | Syngenta | 150 | 4-5 sieve | 57 | 6.9 | 9.7 | 18.3 | 46.3 | 18.3 | 0.6 | 81.1 | 0.52 | 0.74 | 1.39 | 3.52 | 1.39 | 0.04 | 7.61 | 1811 |
| | | | | 59 | 4.7 | 7.6 | 11.8 | 44.1 | 30.8 | 0.9 | 68.2 | 0.44 | 0.70 | 1.09 | 4.05 | 2.83 | 0.09 | 9.18 | 2070* |
| | | | | 61 | 2.9 | 4.1 | 8.3 | 28.6 | 49.0 | 7.1 | 44.0 | 0.30 | 0.44 | 0.87 | 3.00 | 5.13 | 0.74 | 10.48 | 2120 |
| PLS 2195 | Pureline | 118 | 4-5 sieve | 61 | 4.4 | 15.3 | 21.2 | 36.5 | 20.4 | 2.2 | 77.4 | 0.26 | 0.91 | 1.26 | 2.18 | 1.22 | 0.13 | 5.96 | 1396 |
| | | | | 63 | 7.7 | 11.2 | 20.1 | 34.9 | 23.1 | 3.0 | 74.0 | 0.57 | 0.83 | 1.48 | 2.57 | 1.70 | 0.22 | 7.35 | 1698* |
| | | | | 65 | 4.5 | 8.0 | 16.4 | 36.3 | 29.4 | 5.5 | 65.2 | 0.39 | 0.70 | 1.44 | 3.18 | 2.57 | 0.48 | 8.74 | 1946 |

**Table 10. Performance of commercial green bean varieties, June 21 planting, Corvallis, 2007 (cont.).**

| Variety | Source | AV Stand | Intended Use | Days | Percent Sieve Size[z] | | | | | | | Tons/Acre Sieve Size | | | | | | Graded Total[y] | $/Acre[x] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 1-4 | 1 | 2 | 3 | 4 | 5 | 6 | | |
| BSC 833 | Brother-ton | 150 | 4 sieve | 61 | 9.7 | 24.1 | 45.6 | 19.5 | 1.0 | 0.0 | 99.0 | 0.83 | 2.04 | 3.87 | 1.65 | 0.09 | 0.00 | 8.48 | 2163 |
| | | | | 63 | 10.6 | 25.5 | 39.1 | 24.2 | 0.6 | 0.0 | 99.4 | 0.74 | 1.78 | 2.74 | 1.70 | 0.04 | 0.00 | 7.00 | 1789 |
| | | | | 65 | 4.8 | 19.9 | 43.0 | 31.2 | 1.1 | 0.0 | 98.9 | 0.39 | 1.61 | 3.48 | 2.52 | 0.09 | 0.00 | 8.09 | 2063* |
| BSC 8577 | Brother-ton | 150 | 4 sieve | 61 | 8.4 | 18.4 | 28.5 | 41.0 | 3.8 | 0.0 | 96.2 | 0.87 | 1.91 | 2.96 | 4.26 | 0.39 | 0.00 | 10.40 | 2624 |
| | | | | 63 | 4.7 | 14.6 | 29.5 | 44.5 | 6.7 | 0.0 | 93.3 | 0.52 | 1.61 | 3.26 | 4.92 | 0.74 | 0.00 | 11.05 | 2758* |
| | | | | 65 | 4.9 | 15.1 | 34.7 | 38.7 | 6.7 | 0.0 | 93.3 | 0.48 | 1.48 | 3.39 | 3.78 | 0.65 | 0.00 | 9.79 | 2443 |
| Savannah | Harris Moran | 150 | 4 sieve | 62 | 12.7 | 30.3 | 37.6 | 18.8 | 0.6 | 0.0 | 99.4 | 0.91 | 2.18 | 2.70 | 1.35 | 0.04 | 0.00 | 7.18 | 1833 |
| | | | | 64 | 11.0 | 25.6 | 43.0 | 19.8 | 0.6 | 0.0 | 99.4 | 0.83 | 1.91 | 3.22 | 1.48 | 0.04 | 0.00 | 7.48 | 1911 |
| | | | | 67 | 5.7 | 13.2 | 48.1 | 30.7 | 2.4 | 0.0 | 97.6 | 0.52 | 1.22 | 4.44 | 2.83 | 0.22 | 0.00 | 9.22 | 2340* |
| SWB 1A | Pureline | 146 | 2-3 sieve | 62 | 18.8 | 67.1 | 14.1 | 0.0 | 0.0 | 0.0 | 100.0 | 1.39 | 4.96 | 1.04 | 0.00 | 0.00 | 0.00 | 7.40 | 2115 |
| | | | | 64 | 16.4 | 69.6 | 14.0 | 0.0 | 0.0 | 0.0 | 100.0 | 1.22 | 5.18 | 1.04 | 0.00 | 0.00 | 0.00 | 7.44 | 2127* |
| | | | | 67 | 13.3 | 69.4 | 17.3 | 0.0 | 0.0 | 0.0 | 100.0 | 1.13 | 5.92 | 1.48 | 0.00 | 0.00 | 0.00 | 8.53 | 2438 |
| Banga | Seminis | 150 | 2 sieve | 62 | 22.7 | 74.0 | 3.3 | 0.0 | 0.0 | 0.0 | 100.0 | 1.78 | 5.83 | 0.26 | 0.00 | 0.00 | 0.00 | 7.87 | 2177 |
| | | | | 64 | 15.6 | 79.2 | 5.2 | 0.0 | 0.0 | 0.0 | 100.0 | 1.31 | 6.61 | 0.44 | 0.00 | 0.00 | 0.00 | 8.35 | 2264* |
| | | | | 67 | 16.0 | 82.5 | 1.5 | 0.0 | 0.0 | 0.0 | 100.0 | 1.35 | 6.96 | 0.13 | 0.00 | 0.00 | 0.00 | 8.44 | 2376 |
| Redon | Syngenta | 148 | 2 sieve | 63 | 35.3 | 64.7 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2.61 | 4.79 | 0.00 | 0.00 | 0.00 | 0.00 | 7.40 | 2115 |
| | | | | 65 | 36.6 | 63.4 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2.91 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 | 7.96 | 2277* |
| | | | | 67 | 32.4 | 67.0 | 0.5 | 0.0 | 0.0 | 0.0 | 100.0 | 2.61 | 5.39 | 0.04 | 0.00 | 0.00 | 0.00 | 8.05 | 2289 |
| Pierroton | Syngenta | 150 | 2 sieve | 60 | 45.4 | 54.6 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 3.61 | 4.35 | 0.00 | 0.00 | 0.00 | 0.00 | 7.96 | 2277 |
| | | | | 62 | 38.8 | 61.2 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 3.39 | 5.35 | 0.00 | 0.00 | 0.00 | 0.00 | 8.74 | 2501* |
| | | | | 64 | 36.9 | 63.1 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 3.44 | 5.87 | 0.00 | 0.00 | 0.00 | 0.00 | 9.31 | 2662 |
| BSC 8707 | Brother-Ton | 150 | 2 sieve | 62 | 41.9 | 58.1 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2.35 | 3.26 | 0.00 | 0.00 | 0.00 | 0.00 | 5.61 | 1605 |
| | | | | 64 | 42.1 | 57.9 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 2.57 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 6.09 | 1742* |
| | | | | 67 | 32.6 | 66.7 | 0.7 | 0.0 | 0.0 | 0.0 | 100.0 | 2.00 | 4.09 | 0.04 | 0.00 | 0.00 | 0.00 | 6.13 | 1742 |

[z]Percent calculated as % of total of 1-6 sieve beans.
[y]Total tons/acre of the graded beans, including sieve sizes 1-6. Values will be lower than those reported in Table 11 because some beans are lost in the grading process. Analysis of variance (Table 11) was calculated using the harvest marked with *.
[x]$/acre for full sieve and 5 sieve beans based on $259/ton for 1-4 sieve and $106/ton for 5-6 sieve; for 4 and 4-5 sieve beans based on $256/ton for 1-4 sieve and $160/ton for 5-6 sieve; for 2-3 sieve beans based on $286/ton for 1-3 sieve and $0/ton for 4-6 sieve, and for 2 sieve beans based on $286/ton for 1-2 sieve and $0/ton for 3-6 sieve.

**Table 11. Statistical comparison of yields and dollar return of commercial green bean lines, Corvallis, 2007[z].**

| Line | Intended Use | T/A Unadjusted | T/A Adjusted[y] | $/A |
|---|---|---|---|---|
| 91G | full sieve | 11.6 | 10.5 | 1949 |
| OR 54 | full sieve | 11.5 | 13.8 | 2477 |
| 5630 | full sieve | 8.2 | 9.2 | 1637 |
| 6137 | full sieve | 10.6 | 11.6 | 2091 |
| 6185 | full sieve | 10.4 | 10.6 | 1930 |
| 6189 | full sieve | 11.5 | 11.0 | 2019 |
| 6338 | full sieve | 12.4 | 11.8 | 2180 |
| PLS 2196 | full sieve | 9.3 | 11.1 | 1979 |
| Huntington | full sieve | 11.0 | 12.1 | 2174 |
| 6436 | 5 sieve | 11.0 | 13.6 | 2417 |
| 6445 | 5 sieve | 9.9 | 11.6 | 2061 |
| 08120693 | 5 sieve | 8.7 | 11.8 | 2063 |
| SB 4359 | 4-5 sieve | 9.8 | 9.8 | 2207 |
| PLS 2195 | 4-5 sieve | 7.9 | 7.9 | 1829 |
| BSC 833 | 4 sieve | 8.4 | 8.4 | 2152 |
| BSC 8577 | 4 sieve | 11.6 | 11.6 | 2899 |
| Savannah | 4 sieve | 9.7 | 9.7 | 2461 |
| SWB 1A | 2-3 sieve | 7.8 | 7.8 | 2239 |
| Banga | 2 sieve | 8.7 | 8.7 | 2359 |
| Redon | 2 sieve | 8.4 | 8.4 | 2389 |
| Pierroton | 2 sieve | 9.1 | 9.1 | 2600 |
| BSC 8707 | 2 sieve | 6.4 | 6.4 | 1829 |
| BSC 8047 | Italian | 8.5 | 8.5 | 1780 |
| LSD 0.05 | | 2.0 | 2.1 | 449 |

[z]Based on one selected harvest for each variety (marked with * on Table 10), which was usually the harvest closest to optimal based on that variety's intended use (50% 1-4 sieve for full sieve), although in many cases in this trial an earlier harvest was used if yields subsequently dropped significantly due to white mold infection. Yields are field yields of 1-6 sieve beans.

[y]Full sieve and 5 sieve beans were adjusted to 50% 1-4 sieve; all others were unadjusted.

**Table 12. Notes on June 21 commercial bean trial, Corvallis, Oregon, 2007.**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section | Pod Smooth-ness[y] | Pod Color[x] | Flavor[w] | | | | Notes[v] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | Beani-ness | Perfumi-ness | |
| 91G | 16.0 | 4 | round | 5 | 5 | 5 | 5 | 7 | 1 | Prime today with only moderate seed devel-opment |
| OR 54 | 15.5 | 5 | round | 5 | 5 | 7 | 7 | 7 | 1 | Getting seedy without sizing up |
| 5630 | 15.5 | 4 | round | 5 | 5 | 7 | 7 | 5 | 1 | Variable pod color; get-ting seedy without siz-ing up |
| 6137 | 14.0 | 5 | round | 4 | 7 | 7 | 5 | 5 | 1 | Large dark green BBL pods, shiny; prime to-day |
| 6185 | 17.0 | 7 | round | 7 | 7 | 3 | 5 | 7 | 1 | Prime today with only moderate seed devel-opment; very attractive pods but two-tone in color; seems particu-larly susceptible to white mold |
| 6189 | 15.0 | 6 | round | 4 | 5 | 7 | 7 | 5 | 1 | Very large typical BBL type; beginning to get seedy and bumpy |
| 6338 | 16.0 | 5 | round | 5 | 5 | 5 | 7 | 5 | 1 | Getting seedy |
| PLS 2196 | 16.5 | 7 | round | 7 | 7 | 5 | 3 | 7 | 1 | Pleasant flavor, moder-ately seedy |
| Huntington | 14.5 | 6 | heart to round | 7 | 4 | 7 | 7 | 5 | 1 | Very nice BBL with ex-cellent flavor; lighter color than 91G; little seed development |
| 6436 | 16.0 | 6 | round | 6 | 6 | 3 | 5 | 5 | 1 | Attractive BBL type; moderate seed devel-opment |
| 6445 | 15.5 | 5 | round | 5 | 5 | 5 | 7 | 7 | 1 | Moderate seed devel-opment |

**Table 12. Notes on June 21 commercial bean trial, Corvallis, Oregon, 2007 (cont.).**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section | Pod Smooth-ness[y] | Pod Color[x] | Flavor[w] | | | | Notes[v] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | Beani-ness | Perfumi-ness | |
| 08120693 | 15.0 | 7 | heart to round | 8 | 7 | 1 | 3 | 5 | 3 | Attractive dark green pc type; getting seedy; severe white mold infection |
| SB 4359 | 15.0 | 8 | round | 9 | 7 | 3 | 5 | 5 | 5 | Very concentrated set of 4 & 5 sv beans; does not pro-duce 6 sv; susceptible to white mold; may be high fiber |
| PLS 2195 | 15.0 | 7 | heart to round | 8 | 6 | 3 | 3 | 5 | 1 | Crunchy; moderate seed development |
| BSC 833 | 14.0 | 6 | round | 7 | 4 | 1 | 5 | 5 | 1 | Tough; very beany flavor but not sweet; big tall plants in field with severe white mold developing |
| BSC 8577 | 13.0 | 7 | heart to round | 7 | 4 | 4 | 7 | 6 | 1 | Nice flavor; produces very few 5 sv pods |
| Savannah | 14.0 | 9 | round | 8 | 6 | 3 | 5 | 5 | 3 | Moderate seed development |
| SWB 1A | 12.0 | 8 | round | 8 | 4 | 7 | 7 | 5 | 1 | BBL flavor; moderate seed development |
| Banga | 12.5 | 8 | round | 7 | 4 | 1 | 9 | 7 | 3 | Tough pods with very strong flavor; moderate seed de-velopment in 2 & 3 sv pods |
| Redon | 13.0 | 6 | round | 8 | 4 | 5 | 8 | 5 | 1 | Moderate seed development in 2 sv, none in 1 sv |
| Pierroton | 11.5 | 8 | round | 8 | 5 | 3 | 7 | 5 | 1 | Moderate seed development |

**Table 12. Notes on June 21 commercial bean trial, Corvallis, Oregon, 2007 (cont.).**

| Line | Pod Length (cm) | Pod Straight-ness[z] | Pod Cross Section | Pod Smooth-ness[y] | Pod Color[x] | Flavor[w] | | | | Notes[v] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sweet-ness | Astrin-gency | Beani-ness | Perfumi-ness | |
| BSC 8707 | 13.0 | 7 | round | 7 | 5 | 3 | 3 | 5 | 5 | Tough pods; seed develop-ment beginning in 2 sv |
| BSC 8047 | 16.5 | 7 | romano | 4 | 3 | 5 | 5 | 7 | 1 | Tough pods with very strong flavor; moderate seed de-velopment in 2 & 3 sv pods |

[z]Scores based on a 1-9 scale with 9 straightest. [y]Scores based on a 1-9 scale with 9 smoothest. [x]Scores based on a 1-9 scale with 9 darkest. [w]Scores based on a 1-9 scale with 9 strongest. [v]Notes taken on prime harvest date; this trial had lush vigorous growth with heavy white mold infection, which reduced yields as trial progressed. sv = sieve; BBL = bush blue lake; pc = persistent color

**Table 13. White mold incidence and severity in green bean lines, commercial trial, Corvallis, 2007[z].**

| Line | Sieve Size | % Infected | | | | | | | Severity | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Average | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Rep 6 | Average |
| 91G | full | 50 | 30 | 100 | 80 | 100 | 100 | 77 | 7 | 6 | 9 | 6 | 9 | 9 | 7.7 |
| OR 54 | full | 50 | 60 | 100 | 100 | 100 | 30 | 73 | 7 | 5 | 8 | 9 | 8 | 4 | 6.8 |
| 5630 | full | 90 | 100 | 100 | 100 | 100 | 100 | 98 | 6 | 8 | 8 | 9 | 9 | 8 | 8.0 |
| 6137 | full | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8 | 7 | 7 | 9 | 8 | 8 | 7.8 |
| 6185 | full | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8 | 7 | 8 | 9 | 9 | 9 | 8.3 |
| 6189 | full | 100 | 100 | 100 | 50 | 100 | 100 | 92 | 8 | 7 | 7 | 7 | 7 | 9 | 7.5 |
| 6338 | full | 100 | 100 | 80 | 80 | 100 | 100 | 93 | 5 | 8 | 7 | 8 | 8 | 6 | 7.0 |
| PLS 2196 | full | 60 | 100 | 100 | 20* | 100 | 100 | 80 | 6 | 6 | 6 | 3 | 7 | 8 | 6.0 |
| Huntington | full | 100 | 20 | 30 | 100 | 100 | 100 | 75 | 8 | 6 | 5 | 9 | 7 | 6 | 6.8 |
| 6436 | 5 | 100 | 90 | 100 | 100 | 50 | 50 | 82 | 6 | 8 | 8 | 6 | 6 | 6 | 6.7 |
| 6445 | 5 | 50 | 50 | 100 | 50 | 100 | 100 | 75 | 7 | 7 | 7 | 5 | 7 | 8 | 6.8 |
| 08120693 | 5 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8 | 5 | 8 | 5 | 9 | 9 | 7.3 |
| SB 4359 | 4-5 | 100 | 60 | 100 | 100 | 100 | 100 | 93 | 7 | 7 | 9 | 9 | 7 | 8 | 7.8 |
| PLS 2195 | 4-5 | 70 | 50 | 80 | 50 | 30* | 100 | 63 | 3 | 6 | 6 | 6 | 3 | 7 | 5.2 |
| BSC 833 | 4 | 30 | 80 | 80 | 30 | 50 | 100 | 62 | 5 | 5 | 5 | 4 | 5 | 8 | 5.3 |
| BSC 8577 | 4 | 70 | 20 | 50 | 100 | 100 | 100 | 73 | 7 | 3 | 4 | 7 | 7 | 6 | 5.7 |
| Savannah | 4 | 100 | 100 | 20 | 0 | 100 | 100 | 70 | 5 | 6 | 3 | 1 | 6 | 3 | 4.0 |
| SWB 1A | 2-3 | 10* | 100 | 100 | 50 | 50 | 30 | 57 | 3 | 6 | 9 | 5 | 5 | 7 | 5.8 |
| Banga | 2 | 20 | 50 | 20 | 100 | 70 | 100 | 60 | 4 | 5 | 5 | 8 | 7 | 6 | 5.8 |
| Redon | 2 | 100 | 20 | 40 | 100 | 30 | 100 | 65 | 8 | 5 | 5 | 7 | 3 | 9 | 6.2 |
| Pierroton | 2 | 50 | 10 | 10 | 50 | 50 | 10 | 30 | 5 | 5 | 5 | 5 | 5 | 2 | 4.5 |
| BSC 8707 | 2 | 40 | 100 | 50 | 50 | 100 | 100 | 73 | 5 | 5 | 4 | 5 | 9 | 7 | 5.8 |
| BSC 8047 | Italian | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8 | 8 | 8 | 7 | 7 | 9 | 7.8 |
| LSD 0.05 | | | | | | | | 31 | | | | | | | 1.7 |

[z]This trial had lush, vigorous growth with heavy white mold infection. Percent infected measured by visual inspection, not by actual counts.

*Poor stand made these plots hard to evaluate.

**Table 14. OSU snap bean notes, Hermiston, Oregon, 2007[z]**

| Entry | Growth Habit[y] | Sieve Size | Pod Quality[y] | Yield[y] | Notes[x] |
|---|---|---|---|---|---|
| Sahara | 7 | 4 | 7 | 5 | 50% reduction in stand |
| 91G | 3 | full | 5 | 7 | 50% buckskin on 8/10 |
| OR 54 | 3 | full | 5 | 7 | slightly later than 91G |
| 5163 | 3 | full | 5 | 7 | 50% buckskin on 8/10 |
| 5256 | 3 | full | 5 | 7 | 50% buckskin on 8/10 |
| 5402 | 3 | full | 5 | 7 | slightly later than 91G |
| 5446-1 | 3 | 4 | 3 | 3 | |
| 5613 | 7 | 3 | 5 | 5 | |
| 5620 | 7 | full | 7 | 8 | |
| 5630 | 5 | full | 7 | 6 | |
| 5635 | 5 | full | 7 | 7 | |
| 5651 | 7 | full | 3 | 5 | tall plant but floppy; pods have many blanks |
| 5669 | 5 | full | 5 | 5 | |
| 5835 | 7 | 4 | 5 | 3 | |
| 5977 | 5 | 4 | 5 | 3 | |
| 5989 | 7 | full | 7 | 7 | |
| 5996 | 7 | full | 7 | 7 | slightly reduced stand |
| 5998 | 6 | full | 5 | 5 | early; slightly reduced stand |
| 6002-6-2 | 6 | full | 5 | 5 | slightly reduced stand |
| 6002-6-15 | 6 | full | 5 | 5 | slightly reduced stand; non-pc |
| 6002-6-21 | 4 | full | 3 | 5 | stand OK; pc--extreme green |
| 6002-15 | 5 | full | 5 | 3 | Non-pc |
| 6002-30 | 3 | full | 5 | 5 | |
| 6100-1 | 6 | full | 5 | 3 | |
| 6100-11 | 1 | full | 5 | 7 | |
| 6137 | 5 | full | 7 | 7 | late; extreme green |
| 6154 | 9 | 4 | 7 | 5 | most susceptible to wind damage |
| 6172 | 7 | full | 7 | 5 | |
| 6174 | 8 | 5 | 7 | 6 | 15% stand reduction |
| 6185 | 8 | full | 5 | 7 | bumpy pods; 75% stand reduction |
| 6186 | 8 | 4 | 5 | 5 | |
| 6189 | 6 | full | 7 | 5 | short bush; more BBL than Minuette type |
| 6193-31 | 9 | 5 | 7 | 5 | |
| 6193-33 | 9 | 5 | 7 | 3 | |
| 6229 | 5 | full | 5 | 5 | tall plant; late; pale green foliage |
| 6235 | 1 | full | 5 | 3 | late |
| 6241 | 3 | 5 | 3 | 3 | |
| 6257 | 7 | 5 | 1 | 5 | high fiber pods |

**Table 14. OSU snap bean notes, Hermiston, Oregon, 2007[z] (cont.)**

| Entry | Growth Habit[y] | Sieve Size | Pod Quality[y] | Yield[y] | Notes[x] |
|---|---|---|---|---|---|
| 6259 | 3 | 3 | 1 | 5 | high fiber pods; very early; 50% stand reduction |
| 6279 | 3 | 5 | 1 | 5 | hooked pods |
| 6284 | 5 | 5 | 5 | 7 | |
| 6286 | 5 | full | 3 | 5 | some hooked pods |
| 6290 | 5 | full | 3 | 3 | slight stand reduction |
| 6312-1 | 5 | 5 | 3 | 3 | early; slightly reduced stand |
| 6312-8 | 5 | 5 | 3 | 3 | early; slightly reduced stand |
| 6312-11 | 5 | 4 | 1 | 1 | early |
| 6312-18 | 5 | 4 | 3 | 3 | |
| 6312-20 | 5 | 5 | 5 | 5 | medium early; more robust plant than sister lines |
| 6329 | 7 | 5 | 5 | 7 | |
| 6338 | 3 | 4 | 3 | 5 | normal stand |
| 6340 | 5 | 5 | 5 | 5 | |
| 6342 | 3 | 5 | 1 | 5 | slight stand reduction |
| 6347 | 3 | 4 | 3 | 5 | |
| 6348 | 5 | 5 | 3 | 5 | |
| 6393 | 7 | 5 | 5 | 3 | |
| 6406 | 3 | full | 7 | 7 | late |
| 6409 | 6 | 5 | 7 | 3 | 10% stand reduction |
| 6410 | 1 | 5 | 5 | 3 | large, leggy, floppy plants |
| 6411 | 3 | full | 3 | 7 | 90% stand reduction |
| 6412 | 7 | full | 5 | 7 | slight stand reduction |
| 6413 | 7 | full | 7 | 7 | long smooth pods with slight curve; slight stand reduction; CTV susceptible? |
| 6416 | 7 | 3 | 7 | 7 | |
| 6423 | 3 | 5 | 7 | 7 | late |
| 6424 | 5 | 3 | 7 | 5 | |
| 6426 | 4 | 4 | 7 | 5 | |
| 6428 | 3 | 5 | 1 | 5 | slight stand reduction |
| 6429 | 7 | 5 | 7 | 3 | |
| 6430 | 3 | 4 | 7 | 5 | |
| 6433 | 3 | 4 | 7 | 7 | |
| 6436 | 6 | 5 | 3 | 5 | blanks in pods |
| 6439 | 6 | full | 4 | 7 | |
| 6440 | | | | | 95% stand reduction |
| 6441 | 6 | 5 | 5 | 5 | 50% stand reduction |
| 6442 | 7 | 5 | 7 | 7 | |
| 6443 | 7 | 5 | 5 | 7 | |
| 6445 | 6 | full | 3 | 7 | bumpy pods with blanks |
| 6447 | 4 | 4 | 9 | 7 | late |
| 6449 | 5 | 5 | 7 | 7 | |

**Table 14. OSU snap bean notes, Hermiston, Oregon, 2007[z] (cont.)**

| Entry | Growth Habit[y] | Sieve Size | Pod Quality[y] | Yield[y] | Notes[x] |
|---|---|---|---|---|---|
| 6451 | 5 | 5 | 5 | 7 | |
| 6452 | 7 | 5 | 4 | 5 | |
| 6453 | 7 | 5 | 5 | 5 | |
| 6454 | 7 | 4 | 3 | 5 | poor pod set |
| 6455 | 4 | 5 | 5 | 7 | |
| 6456 | 3 | 5 | 5 | 7 | |
| 6457 | 5 | full | 3 | 5 | heliotropoic leaves; blanks in pods |
| 6463 | 5 | 5 | 5 | 7 | early |
| 6464 | 6 | 4 | 5 | 5 | |
| 6467 | 3 | 5 | 3 | 5 | |
| 6468 | 8 | 5 | 5 | 5 | |
| 6469 | 6 | 5 | 5 | 5 | 30% stand reduction |
| 6471 | 5 | full | 5 | 7 | |
| 6474 | 7 | full | 6 | 5 | 20% stand reduction |
| 6475 | 5 | full | 5 | 5 | |
| 6477 | 3 | 5 | 7 | 7 | BBL habit |
| 6478 | 6 | full | 3 | 5 | blanks in pods |
| 6479 | 5 | full | 1 | 3 | junky; blanks; one purple pod off-type |
| 6480 | 6 | 5 | 5 | 5 | slight stand reduction |
| 6481 | 6 | 5 | 5 | 7 | |
| 6484 | 5 | 5 | 3 | 5 | |
| 6485 | 5 | full | 4 | 7 | |
| 6487 | 6 | 5 | 5 | 7 | virus (not CTV); segregating for extreme green pods |
| 6489 | 3 | 5 | 5 | 5 | |
| 6490 | 7 | 5 | 5 | 5 | |
| 6493 | 6 | 5 | 5 | 5 | |
| 6494 | 5 | full | 7 | 5 | |
| 6495 | 6 | 5 | 5 | 5 | |
| 6496 | 3 | full | 7 | 7 | |
| 6497 | 5 | full | 3 | 5 | |
| 6498 | 5 | full | 3 | 7 | |
| 6500 | 3 | full | 5 | 7 | 80% stand reduction |
| 6501 | 5 | full | 5 | 5 | 50% stand reduction |
| 6502 | 5 | 5 | 7 | 7 | 50% stand reduction |
| 6551 | 3 | full | 7 | 7 | pc type; only slight stand reduction |

[z]Planted May 15. Notes taken August 10. Most of the persistant chlorophyll (pc) types (about 75 lines) had very poor or no germination and were not included in the table.
[y]Scores based on a 1-9 scale with 9=best.
[x]pc=persistent chlorophyll; BBL=bush blue lake; CTV=curly top virus.

**Table 15. Results from a white mold screening trial, Corvallis, 2007[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] G 122 | M0162 | 91G | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| NY1-6020-4 | 84 | 6.3 | | ** | ** | 6.3 | 1.0 | medium | 1.4 | 2.5 |
| 6570 | 61 | 6.9 | | ** | ** | 6.9 | 1.0 | medium | 1.3 | 2.1 |
| L192 | 100 | 7.4 | | ** | ** | 7.4 | 1.0 | medium | 1.3 | 1.4 |
| I9365-31 | 100 | 8.1 | | ** | ** | 8.1 | 1.0 | medium | 2.3 | 1.9 |
| 6561 | 83 | 9.8 | | ** | ** | 7.5 | 1.3 | medium | 1.4 | 2.3 |
| G122 | 100 | 11.0 | | ** | ** | 7.3 | 1.5 | medium | 1.1 | 2.0 |
| 6562 | 75 | 11.2 | | ** | ** | 8.0 | 1.4 | medium | 1.6 | 2.0 |
| PI207130-2-4 | 100 | 11.3 | | ** | ** | 7.5 | 1.5 | late | 1.5 | 1.9 |
| NY1-6020-5 | 100 | 12.2 | | ** | ** | 8.1 | 1.5 | medium | 1.5 | 1.4 |
| 6587 | 91 | 13.7 | | ** | ** | 9.1 | 1.5 | medium | 1.1 | 2.3 |
| 6569 | 76 | 14.0 | | | ** | 7.8 | 1.8 | medium late | 1.0 | 2.7 |
| M0192 | 100 | 14.6 | | | ** | 8.1 | 1.8 | medium early | 1.6 | 2.3 |
| M0061 | 100 | 14.8 | | | ** | 7.4 | 2.0 | medium early | 1.4 | 2.0 |
| M0113 | 99 | 15.6 | | | ** | 7.8 | 2.0 | medium | 1.6 | 2.1 |
| Medinah | 93 | 15.8 | | | ** | 6.3 | 2.5 | medium | 1.4 | 2.3 |
| M0156 | 100 | 16.1 | | | ** | 7.0 | 2.3 | medium | 2.6 | 1.5 |
| 6464 | 100 | 16.2 | | | ** | 8.1 | 2.0 | early | 1.9 | 1.9 |
| 6576 | 84 | 17.6 | | | ** | 9.8 | 1.8 | medium | 1.5 | 2.5 |
| Ex Rico | 100 | 17.8 | | | ** | 8.9 | 2.0 | medium | 1.8 | 1.8 |
| NY5972 | 98 | 17.9 | | | ** | 7.8 | 2.3 | medium | 1.1 | 1.9 |
| 6235 | 100 | 18.2 | | | ** | 9.1 | 2.0 | medium early | 1.6 | 1.9 |
| 6557 | 94 | 18.2 | | | ** | 9.1 | 2.0 | medium | 1.4 | 2.4 |
| 6574 | 98 | 18.4 | | | ** | 8.0 | 2.3 | medium | 1.3 | 2.5 |
| FR266 | 100 | 18.6 | | | ** | 8.1 | 2.3 | medium | 1.5 | 1.5 |
| 6560 | 75 | 18.8 | | | ** | 7.5 | 2.5 | medium | 1.3 | 2.4 |
| 6554 | 94 | 19.3 | | | ** | 8.4 | 2.3 | medium | 1.3 | 2.1 |
| PI290990-4-1 | 100 | 19.6 | | | ** | 8.5 | 2.3 | early | 1.4 | 1.4 |
| 6571 | 71 | 19.6 | | | ** | 9.8 | 2.0 | medium | 1.5 | 2.1 |

**Table 15. Results from a white mold screening trial, Corvallis, 2007 (cont.)[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] G 122 | M0162 | 91G | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| 6589 | 50 | 20.2 | | | ** | 8.8 | 2.3 | medium | 1.3 | 2.3 |
| NYBS6637 | 100 | 20.3 | | | ** | 8.1 | 2.5 | medium | 1.8 | 1.6 |
| 6581 | 88 | 20.3 | | | ** | 8.1 | 2.5 | medium | 1.4 | 1.6 |
| 6556 | 88 | 20.7 | | | ** | 9.0 | 2.3 | medium late | 1.8 | 2.4 |
| 6559 | 78 | 21.6 | | | ** | 9.4 | 2.3 | medium | 1.9 | 2.0 |
| 6592 | 64 | 22.5 | | | ** | 9.8 | 2.3 | medium | 1.9 | 2.0 |
| NY2-5984-1 | 100 | 22.5 | | | ** | 9.8 | 2.3 | late | 1.4 | 1.9 |
| M0207A | 100 | 23.0 | | | ** | 10.0 | 2.3 | medium early | 2.0 | 1.5 |
| 6586 | 71 | 23.5 | | | ** | 9.4 | 2.5 | medium | 1.6 | 2.8 |
| 6572 | 55 | 23.8 | | | ** | 9.5 | 2.5 | medium | 1.6 | 2.8 |
| 6582 | 69 | 23.8 | | | ** | 6.8 | 3.5 | medium | 1.6 | 2.1 |
| 6564 | 93 | 25.0 | | | ** | 10.0 | 2.5 | medium late | 1.6 | 2.5 |
| M0107A | 100 | 25.2 | | | ** | 8.4 | 3.0 | medium | 1.8 | 1.6 |
| 6393 | 100 | 25.5 | | | ** | 9.1 | 2.8 | medium early | 1.5 | 2.2 |
| 6555 | 90 | 26.0 | | | ** | 9.3 | 2.8 | medium | 1.7 | 1.9 |
| 6591 | 70 | 26.0 | | | ** | 9.3 | 2.8 | medium | 1.6 | 1.9 |
| M0107B | 100 | 26.3 | | | ** | 9.4 | 2.8 | medium late | 1.9 | 1.9 |
| 6580 | 58 | 26.6 | | | ** | 9.5 | 2.8 | medium | 1.5 | 2.5 |
| 6595 | 90 | 27.0 | | | ** | 9.0 | 3.0 | medium | 2.0 | 2.0 |
| 6573 | 89 | 27.7 | | | ** | 9.9 | 2.8 | medium | 2.0 | 2.5 |
| 6577 | 60 | 27.7 | | | ** | 9.9 | 2.8 | medium | 1.5 | 2.1 |
| 6482 | 100 | 28.1 | | | ** | 8.5 | 3.3 | medium | 1.4 | 2.0 |
| 6449 | 100 | 28.2 | | | ** | 9.4 | 3.0 | medium | 1.8 | 1.6 |
| NYBS6643 | 100 | 28.5 | | | ** | 9.5 | 3.0 | medium | 1.4 | 2.0 |
| 6452 | 98 | 29.7 | | | ** | 9.9 | 3.0 | medium | 1.9 | 1.6 |
| 6590 | 64 | 29.7 | | | ** | 9.9 | 3.0 | medium late | 1.6 | 2.3 |
| Savannah | 100 | 29.8 | | | ** | 8.5 | 3.5 | medium | 1.8 | 2.6 |

**Table 15. Results from a white mold screening trial, Corvallis, 2007 (cont.)[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] G 122 | M0162 | 91G | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| 6189 | 65 | 30.0 | | | ** | 9.1 | 3.3 | medium | 2.3 | 2.0 |
| 6584 | 44 | 30.1 | | | ** | 7.0 | 4.3 | medium | 1.9 | 1.6 |
| 6568 | 54 | 30.8 | | | ** | 8.8 | 3.5 | late | 1.9 | 2.6 |
| M0196 | 93 | 31.0 | | | ** | 10.0 | 3.1 | early | 1.8 | 2.0 |
| 6485 | 100 | 31.4 | | | ** | 9.5 | 3.3 | medium early | 2.1 | 2.3 |
| M0070 | 100 | 32.3 | | | ** | 9.8 | 3.3 | early | 1.8 | 1.8 |
| 6567 | 95 | 32.9 | ^ | | ** | 9.4 | 3.5 | medium | 1.5 | 2.1 |
| 6453 | 100 | 33.0 | ^ | | ** | 10.0 | 3.3 | medium early | 2.0 | 2.5 |
| 6588 | 66 | 33.0 | ^ | | ** | 10.0 | 3.3 | medium | 1.5 | 2.0 |
| M0169 | 99 | 33.0 | ^ | | ** | 10.0 | 3.3 | early | 2.0 | 1.8 |
| 6579 | 25 | 34.0 | ^ | | ** | 10.0 | 3.4 | medium | 2.6 | 2.0 |
| M0098 | 100 | 34.3 | ^ | | ** | 9.8 | 3.5 | early | 1.8 | 2.3 |
| 6575 | 93 | 35.0 | ^ | | ** | 10.0 | 3.5 | medium | 1.5 | 2.1 |
| 6578 | 68 | 35.0 | ^ | | ** | 10.0 | 3.5 | medium | 1.2 | 2.2 |
| 6594 | 85 | 35.0 | ^ | | ** | 10.0 | 3.5 | medium | 1.4 | 2.4 |
| M0082 | 100 | 38.0 | ^ | | ** | 10.0 | 3.8 | early | 1.9 | 1.8 |
| 6137 | 100 | 38.3 | ^ | | ** | 8.9 | 4.3 | medium | 2.4 | 2.3 |
| H9658-9 | 100 | 39.2 | ^ | | ** | 9.8 | 4.0 | early | 1.4 | 2.6 |
| M0146 | 100 | 39.6 | ^ | | ** | 9.9 | 4.0 | early | 2.0 | 1.6 |
| M0162 | 100 | 39.6 | ^ | | | 9.9 | 4.0 | early | 1.5 | 1.8 |
| M0048 | 99 | 41.3 | ^ | | | 9.6 | 4.3 | medium | 1.8 | 2.0 |
| 6487 | 100 | 41.8 | ^ | | | 8.9 | 4.7 | medium | 1.7 | 2.5 |
| 6463 | 100 | 41.9 | ^ | | | 9.3 | 4.5 | medium early | 2.4 | 2.4 |
| 6468 | 98 | 43.0 | ^ | | | 10.0 | 4.3 | medium | 2.0 | 1.9 |
| 6436 | 98 | 43.2 | ^ | | | 9.6 | 4.5 | medium early | 1.6 | 2.1 |
| 6451 | 99 | 44.1 | ^ | | | 9.8 | 4.5 | early | 1.8 | 1.8 |
| 6284 | 100 | 44.6 | ^ | | | 9.9 | 4.5 | early | 1.9 | 2.4 |

**Table 15. Results from a white mold screening trial, Corvallis, 2007 (cont.)[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] | | | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | G 122 | M0162 | 91G | | | | | |
| 6312-8 | 100 | 44.6 | ^ | | | 9.9 | 4.5 | medium early | 2.5 | 2.0 |
| 6475 | 100 | 44.6 | ^ | | | 9.3 | 4.8 | early | 2.3 | 2.3 |
| 6259 | 98 | 45.0 | ^ | | | 10.0 | 4.5 | early | 2.0 | 2.4 |
| 6474 | 96 | 45.0 | ^ | | | 10.0 | 4.5 | medium early | 2.1 | 2.1 |
| 6447 | 100 | 45.5 | ^ | | | 9.1 | 5.0 | early | 2.1 | 2.3 |
| 6490 | 93 | 47.0 | ^ | | | 9.8 | 4.8 | medium | 2.3 | 2.3 |
| 6493 | 98 | 47.0 | ^ | | | 9.8 | 4.8 | medium | 2.3 | 2.1 |
| 6467 | 100 | 47.5 | ^ | | | 9.5 | 5.0 | medium | 2.6 | 2.3 |
| M0163 | 100 | 47.5 | ^ | | | 9.9 | 4.8 | early | 1.8 | 1.8 |
| 6479 | 94 | 48.0 | ^ | | | 10.0 | 4.8 | early | 2.8 | 1.9 |
| 6566 | 100 | 48.0 | ^ | | | 10.0 | 4.8 | medium | 2.0 | 2.5 |
| M0175 | 100 | 48.0 | ^ | | | 8.0 | 6.0 | early | 2.4 | 1.9 |
| 6174 | 98 | 49.5 | ^ | | | 9.9 | 5.0 | medium | 1.8 | 2.3 |
| 6478 | 98 | 50.0 | ^ | | | 10.0 | 5.0 | medium early | 2.4 | 1.8 |
| M0059 | 100 | 50.4 | ^ | | | 9.5 | 5.3 | early | 2.8 | 1.8 |
| 6342 | 100 | 51.9 | ^ | | | 9.8 | 5.3 | medium early | 2.4 | 1.9 |
| 6440 | 100 | 51.9 | ^ | | | 9.8 | 5.3 | medium early | 2.4 | 1.9 |
| 6471 | 98 | 53.0 | ^ | | | 10.0 | 5.3 | medium | 2.6 | 2.3 |
| 6241 | 100 | 54.5 | ^ | | | 9.9 | 5.5 | medium early | 1.9 | 1.8 |
| 6445 | 91 | 54.5 | ^ | | | 9.9 | 5.5 | early | 2.4 | 2.0 |
| 6443 | 100 | 55.0 | ^ | | | 10.0 | 5.5 | early | 2.6 | 1.9 |
| 6456 | 93 | 55.0 | ^ | | | 10.0 | 5.5 | medium early | 2.3 | 1.9 |
| 6469 | 96 | 55.0 | ^ | | | 10.0 | 5.5 | medium early | 2.4 | 1.6 |
| 6484 | 98 | 55.0 | ^ | | | 10.0 | 5.5 | early | 2.6 | 1.8 |
| 6498 | 100 | 55.0 | ^ | | | 10.0 | 5.5 | medium early | 2.8 | 1.9 |
| M0179 | 100 | 55.0 | ^ | | | 10.0 | 5.5 | medium early | 3.0 | 1.3 |
| 6501 | 95 | 57.4 | ^ | | | 9.9 | 5.8 | early | 2.3 | 1.9 |

**Table 15. Results from a white mold screening trial, Corvallis, 2007 (cont.)[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] | | | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | G 122 | M0162 | 91G | | | | | |
| 6290 | 100 | 58.0 | ^ | | | 10.0 | 5.8 | early | 2.5 | 2.1 |
| 6455 | 100 | 58.0 | ^ | | | 10.0 | 5.8 | medium early | 2.1 | 2.0 |
| 6495 | 99 | 58.0 | ^ | | | 10.0 | 5.8 | medium early | 2.1 | 2.0 |
| M0157 | 100 | 58.0 | ^ | | | 10.0 | 5.8 | medium early | 2.5 | 1.4 |
| 6329 | 98 | 60.0 | ^ | | | 10.0 | 6.0 | early | 2.6 | 2.0 |
| 6481 | 100 | 60.0 | ^ | | | 10.0 | 6.0 | early | 2.6 | 1.9 |
| 91G | 100 | 60.0 | ^ | | | 10.0 | 6.0 | medium early | 2.8 | 1.8 |
| M0161 | 100 | 62.4 | ^ | | | 9.9 | 6.3 | early | 2.9 | 1.4 |
| 6257 | 99 | 63.0 | ^ | | | 10.0 | 6.3 | early | 1.9 | 1.6 |
| 6454 | 95 | 63.0 | ^ | | | 10.0 | 6.3 | early | 2.1 | 1.6 |
| 6457 | 96 | 63.0 | ^ | | | 10.0 | 6.3 | early | 2.0 | 2.0 |
| 6477 | 100 | 63.0 | ^ | | | 10.0 | 6.3 | early | 2.6 | 2.0 |
| 6489 | 99 | 63.0 | ^ | | | 10.0 | 6.3 | medium early | 2.3 | 1.8 |
| 6502 | 100 | 63.0 | ^ | | | 10.0 | 6.3 | early | 2.6 | 1.9 |
| OR54 | 100 | 63.0 | ^ | | | 10.0 | 6.3 | medium early | 2.4 | 1.9 |
| 6442 | 94 | 63.7 | ^ | ^ | | 9.8 | 6.5 | medium | 2.1 | 1.9 |
| 6439 | 98 | 64.4 | ^ | ^ | | 9.9 | 6.5 | medium early | 2.0 | 2.0 |
| 6340 | 100 | 65.0 | ^ | ^ | | 10.0 | 6.5 | medium early | 2.8 | 1.6 |
| M0056 | 100 | 65.0 | ^ | ^ | | 10.0 | 6.5 | medium early | 2.6 | 1.9 |
| M0160 | 100 | 65.0 | ^ | ^ | | 10.0 | 6.5 | early | 3.0 | 1.3 |
| 5669 | 100 | 68.0 | ^ | ^ | | 10.0 | 6.8 | early | 2.6 | 2.0 |
| 6348 | 99 | 68.0 | ^ | ^ | | 10.0 | 6.8 | early | 2.8 | 2.0 |
| 6441 | 100 | 68.0 | ^ | ^ | | 10.0 | 6.8 | medium early | 2.5 | 2.1 |
| 6494 | 95 | 68.0 | ^ | ^ | | 10.0 | 6.8 | early | 2.6 | 2.0 |
| 6497 | 94 | 68.6 | ^ | ^ | | 9.8 | 7.0 | early | 2.6 | 1.8 |
| 5630 | 100 | 69.3 | ^ | ^ | | 9.9 | 7.0 | medium | 2.5 | 1.8 |
| 5613 | 98 | 70.0 | ^ | ^ | | 10.0 | 7.0 | medium | 1.9 | 1.9 |

**Table 15. Results from a white mold screening trial, Corvallis, 2007 (cont.)[z]**

| Entry | Stand[y] | White Mold Index[x] | White Mold Check Comparisons[x] | | | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | G 122 | M0162 | 91G | | | | | |
| 6496 | 100 | 70.0 | ^ | ^ | | 10.0 | 7.0 | medium | 2.4 | 1.6 |
| M0155 | 100 | 70.0 | ^ | ^ | | 10.0 | 7.0 | early | 2.9 | 1.4 |
| 6286 | 98 | 73.0 | ^ | ^ | | 10.0 | 7.3 | early | 2.3 | 1.8 |
| 6312-1 | 100 | 73.0 | ^ | ^ | | 10.0 | 7.3 | early | 2.8 | 2.1 |
| 6338 | 90 | 83.0 | ^ | ^ | | 10.0 | 8.3 | early | 2.5 | 2.0 |
| 6347 | 100 | 83.0 | ^ | ^ | | 10.0 | 8.3 | early | 3.0 | 1.9 |

[z]Planted June 29.
[y]Visual assessment in percent with 100 = perfect stand.
[x]Based on LS means; index = incidence x severity; ** indicates significantly better than this check ($p<0.05$); ^ indicates significantly worse than this check ($p<0.05$).
[w]Scores based on a 1-10 scale with 1 = low incidence, no symptoms observed and 10 = high incidence, all plants in plot infected.
[v]Scores based on a 1-9 scale with 9 = severe infection.
[u]Scores based on a 1-3 scale with 1 = upright and 3 = prostrate.
[t]Scores based on a 1-3 scale with 3 = good yield potential.

**Table 16. Comparison of white mold field averages, eight years combined, Corvallis, 2007.**

| Entry | White Mold Field Score Averages | | | | | | | | Overall |
|---|---|---|---|---|---|---|---|---|---|
| | 2000[z] | 2001[z] | 2002[z] | 2003[z] | 2004[z] | 2005[z] | 2006[z] | 2007[y] | AV |
| L192 | 1.5 | 1.1 | 2.5 | 1.3 | 4.0 | 2.5 | 2.3 | 7.4 | 2.8 |
| NYBS6637 | 1.3 | 1.8 | 3.8 | 1.7 | 2.3 | 2.5 | 3.1 | 8.1 | 3.0 |
| PI207130-2-4 | 1.5 | 2.4 | 4.0 | 3.0 | 2.8 | 1.8 | 1.7 | 7.5 | 3.1 |
| PI290990-4-1 | 2.5 | 2.3 | 3.0 | 2.0 | 2.0 | 3.0 | 1.8 | 8.5 | 3.1 |
| NY5972 | 1.3 | 1.6 | 3.3 | 2.7 | 3.8 | 2.5 | 2.8 | 7.8 | 3.2 |
| NY2-5984-1 | 2.0 | 1.5 | 3.3 | 2.3 | 3.0 | 1.5 | 2.5 | 9.8 | 3.2 |
| NY1-6020-5 | 2.8 | 1.5 | 4.5 | 1.7 | 2.3 | 2.5 | 2.8 | 8.1 | 3.3 |
| G122 | 2.0 | 1.5 | 4.0 | 2.0 | 5.8 | 2.5 | 2.0 | 7.3 | 3.4 |
| M0162 | 1.0 | 1.1 | 3.3 | 3.3 | 2.8 | 3.3 | 2.5 | 9.9 | 3.4 |
| NY1-6020-4 | 3.0 | 2.6 | 4.8 | 2.3 | 3.5 | 2.5 | 3.0 | 6.3 | 3.5 |
| NYBS6643 | 1.8 | 1.6 | 4.3 | 1.0 | 6.5 | 1.5 | 3.8 | 9.5 | 3.7 |
| H9658-9 | 2.0 | 2.1 | 4.5 | 4.3 | 3.0 | 2.5 | 3.0 | 9.8 | 3.9 |
| FR 266 | 3.8 | 2.3 | 6.0 | 1.7 | 6.8 | 3.5 | 3.3 | 8.1 | 4.4 |
| Ex Rico | 5.0 | 4.1 | 7.0 | 4.3 | 7.3 | 5.3 | 5.0 | 8.9 | 5.9 |
| 5630 | 5.3 | 7.3 | 8.8 | 6.0 | 9.3 | 5.8 | 6.3 | 9.9 | 7.3 |
| 5613 | 6.8 | 6.5 | 9.0 | 6.0 | 10.0 | 6.3 | 5.8 | 10.0 | 7.5 |
| OR 54 | 7.5 | 6.8 | 9.0 | 6.0 | 10.0 | 7.8 | 7.0 | 10.0 | 8.0 |
| 91G | 7.8 | 8.3 | 8.3 | 7.2 | 9.8 | 6.8 | 6.8 | 10.0 | 8.1 |
| Grand AV | 3.3 | 3.1 | 5.2 | 3.3 | 5.3 | 3.5 | 5.5 | 8.7 | 4.7 |
| LSD @ .05 | | | | | | 1.0 | 1.3 | 1.9 | 1.0 |

[z]White mold scores: 1-10, 1 = low incidence, no symptoms observed, 10 = high incidence, all plants in plot infected.

**Table 17. Comparison of white mold field averages, two years combined, Corvallis, 2007.**

| Entry | 2006 | 2007 | Overall AV |
|---|---|---|---|
| PI207130-2-4 | 1.7 | 7.5 | 4.6 |
| NY1-6020-4 | 3.0 | 6.3 | 4.7 |
| G122 | 2.0 | 7.3 | 4.7 |
| L192 | 2.3 | 7.4 | 4.8 |
| PI290990-4-1 | 1.8 | 8.5 | 5.1 |
| NY5972 | 2.8 | 7.8 | 5.3 |
| NY1-6020-5 | 2.8 | 8.1 | 5.4 |
| NYBS6637 | 3.1 | 8.1 | 5.6 |
| FR 266 | 3.3 | 8.1 | 5.7 |
| NY2-5984-1 | 2.5 | 9.8 | 6.2 |
| M0162 | 2.5 | 9.9 | 6.2 |
| 6235 | 3.5 | 9.1 | 6.3 |
| Savannah | 4.3 | 8.5 | 6.4 |
| H9658-9 | 3.0 | 9.8 | 6.4 |
| NYBS6643 | 3.8 | 9.5 | 6.6 |
| 6464 | 5.5 | 8.1 | 6.8 |
| 6453 | 3.8 | 10.0 | 6.9 |
| 6447 | 4.8 | 9.1 | 7.0 |
| Ex Rico | 5.0 | 8.9 | 7.0 |
| 6457 | 4.0 | 10.0 | 7.0 |
| 6393 | 5.5 | 9.4 | 7.5 |
| 6475 | 5.8 | 9.3 | 7.6 |
| 6487 | 6.3 | 8.9 | 7.6 |
| 6290 | 5.3 | 10.0 | 7.6 |
| 6259 | 5.3 | 10.0 | 7.6 |
| 6474 | 5.5 | 10.0 | 7.8 |
| 6436 | 6.1 | 9.6 | 7.9 |
| 6348 | 5.8 | 10.0 | 7.9 |
| 5613 | 5.8 | 10.0 | 7.9 |
| 6467 | 6.3 | 9.5 | 7.9 |
| 6312-8 | 6.0 | 9.9 | 8.0 |
| 6439 | 6.0 | 9.9 | 8.0 |
| 6443 | 6.0 | 10.0 | 8.0 |
| 6441 | 6.0 | 10.0 | 8.0 |
| 6338 | 6.0 | 10.0 | 8.0 |
| 6329 | 6.0 | 10.0 | 8.0 |
| 6257 | 6.0 | 10.0 | 8.0 |
| 6493 | 6.3 | 9.8 | 8.1 |
| 6490 | 6.3 | 9.8 | 8.1 |
| 6440 | 6.3 | 9.8 | 8.1 |
| 6284 | 6.3 | 9.9 | 8.1 |

**Table 17. Comparison of white mold field averages, two years combined, Corvallis, 2007 (cont).**

| Entry | 2006 | 2007 | Overall AV |
|---|---|---|---|
| 5630 | 6.3 | 9.9 | 8.1 |
| 6312-1 | 6.3 | 10.0 | 8.2 |
| 6497 | 6.5 | 9.8 | 8.2 |
| 6479 | 6.3 | 10.0 | 8.2 |
| 6478 | 6.3 | 10.0 | 8.2 |
| 6454 | 6.3 | 10.0 | 8.2 |
| 6445 | 6.5 | 9.9 | 8.2 |
| 6498 | 6.5 | 10.0 | 8.3 |
| 6484 | 6.5 | 10.0 | 8.3 |
| 6286 | 6.5 | 10.0 | 8.3 |
| 6241 | 6.8 | 9.9 | 8.3 |
| 6347 | 6.8 | 10.0 | 8.4 |
| 6340 | 6.8 | 10.0 | 8.4 |
| 6477 | 6.8 | 10.0 | 8.4 |
| 91G | 6.8 | 10.0 | 8.4 |
| 6501 | 7.0 | 9.9 | 8.5 |
| Ore 54 | 7.0 | 10.0 | 8.5 |
| 6495 | 7.0 | 10.0 | 8.5 |
| 6481 | 7.0 | 10.0 | 8.5 |
| Grand AV | 5.5 | 42.8 | 7.4 |
| LSD @ .05 | 1.3 | 1.9 | 1.6 |

[z]White mold scores: 1-10, 1 = low incidence, no symptoms observed, 10 = high incidence, all plants in plot infected.

**Table 18. LS means for a 91G x PI255956 $BC_2F_6$ population from a field white mold disease screening trial, Corvallis, 2007.[z]**

| Line | Stand[y] | White Mold Index[x] | Comparison to Checks | | | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | G122 | MO162 | OR 91G | | | | | |
| G122 | 100 | 11.0 | | ** | ** | 7.3 | 1.5 | medium | 1.5 | 2 |
| WMGx25 20-3 | 100 | 20.0 | | | ** | 8.0 | 2.5 | late | 1.5 | 1.6 |
| WMGx25 6-9 | 100 | 21.0 | | | ** | 8.4 | 2.5 | medium | 2.1 | 2.3 |
| WMGx25 15-2 | 100 | 21.3 | | | ** | 7.1 | 3.0 | medium | 1.9 | 1.8 |
| WMGx25 13-14 | 100 | 25.0 | | | ** | 9.1 | 2.8 | early | 1.6 | 1.5 |
| WMGx25 48-3 | 100 | 27.2 | | | ** | 9.9 | 2.8 | early | 2.0 | 1.9 |
| WMGx25 48-5 | 99 | 27.5 | | | ** | 10.0 | 2.8 | medium | 1.9 | 1.8 |
| WMGx25 43-4 | 100 | 31.9 | | | ** | 9.8 | 3.3 | medium | 2.0 | 1.9 |
| WMGx25 20-2 | 98 | 33.3 | | | ** | 9.5 | 3.5 | medium | 1.6 | 1.9 |
| WMGx25 3-15 | 100 | 34.7 | ^ | | ** | 9.9 | 3.5 | medium | 2.0 | 1.8 |
| WMGx25 7-2 | 100 | 38.0 | ^ | | | 9.5 | 4.0 | medium early | 1.8 | 1.6 |
| WMGx25 2-6 | 100 | 38.4 | ^ | | | 9.6 | 4.0 | early | 1.8 | 1.6 |
| M0162 | 100 | 39.6 | ^ | | | 9.9 | 4.0 | early | 1.1 | 1.8 |
| WMGx25 11-1 | 100 | 41.7 | ^ | | | 9.8 | 4.3 | early | 2.3 | 1.9 |
| WMGx25 18-1 | 100 | 42.1 | ^ | | | 9.9 | 4.3 | medium | 2.0 | 2.4 |
| WMGx25 4-6 | 100 | 42.8 | ^ | | | 9.5 | 4.5 | medium | 1.8 | 2.3 |
| WMGx25 6-3 | 100 | 44.0 | ^ | | | 8.8 | 5.0 | medium | 2.1 | 2.3 |
| WMGx25 41-2 | 100 | 44.6 | ^ | | | 9.9 | 4.5 | early | 2.4 | 2.1 |
| WMGx25 29-9 | 98 | 45.0 | ^ | | | 10.0 | 4.5 | medium | 2.1 | 1.6 |
| WMGx25 50-4 | 100 | 45.0 | ^ | | | 10.0 | 4.5 | medium | 1.9 | 1.9 |
| WMGx25 45-1 | 100 | 45.6 | ^ | | | 9.6 | 4.8 | medium early | 2.1 | 1.9 |
| WMGx25 23-8 | 100 | 47.0 | ^ | | | 10.0 | 4.7 | medium late | 2.0 | 2 |
| WMGx25 13-11 | 99 | 47.5 | ^ | | | 10.0 | 4.8 | early | 2.4 | 1.6 |
| WMGx25 17-4 | 96 | 47.5 | ^ | | | 10.0 | 4.8 | medium | 2.0 | 1.8 |
| WMGx25 31-6 | 100 | 47.5 | ^ | | | 10.0 | 4.8 | early | 2.4 | 1.6 |
| WMGx25 41-7 | 98 | 49.5 | ^ | | | 9.9 | 5.0 | medium early | 2.0 | 2.1 |
| WMGx25 42-1 | 100 | 51.2 | ^ | | | 9.3 | 5.5 | early | 2.5 | 1.9 |
| WMGx25 12-2 | 100 | 52.0 | ^ | | | 9.9 | 5.3 | medium early | 2.1 | 2.4 |
| WMGx25 21-1 | 98 | 52.5 | ^ | | | 10.0 | 5.3 | medium | 2.0 | 1.6 |

**Table 18. LS means for a 91G x PI255956 $BC_2F_6$ population from a field white mold disease screening trial, Corvallis, 2007 (cont).[z]**

| Line | Stand[y] | White Mold Index[x] | Comparison to Checks | | | White Mold Incidence[w] | White Mold Severity[v] | Maturity | Lodging[u] | Estimated Yield Potential[t] |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | G122 | MO162 | OR 91G | | | | | |
| WMGx25 41-11 | 98 | 55.0 | ^ | | | 10.0 | 5.5 | medium early | 2.8 | 1.9 |
| WMGx25 8-1 | 100 | 56.4 | ^ | | | 9.4 | 6.0 | early | 2.3 | 2 |
| OR 91G | 100 | 57.5 | ^ | | | 10.0 | 5.8 | medium early | 2.8 | 1.8 |
| WMGx25 42-3 | 100 | 57.5 | ^ | | | 10.0 | 5.8 | early | 2.3 | 1.9 |
| WMGx25 7-15 | 100 | 57.5 | ^ | | | 10.0 | 5.8 | medium early | 2.0 | 1.6 |
| WMGx25 47-4 | 99 | 58.8 | ^ | | | 9.8 | 6.0 | early | 2.4 | 2.1 |
| WMGx25 45-2 | 100 | 59.4 | ^ | | | 9.9 | 6.0 | medium early | 2.4 | 1.3 |
| WMGx25 24-1 | 98 | 60.0 | ^ | | | 10.0 | 6.0 | medium early | 2.8 | 1.8 |
| WMGx25 28-4 | 99 | 60.0 | ^ | | | 10.0 | 6.0 | early | 2.6 | 2.3 |
| WMGx25 44-3 | 100 | 60.0 | ^ | | | 10.0 | 6.0 | medium early | 1.8 | 1.8 |
| WMGx25 25-3 | 100 | 62.0 | ^ | | | 10.0 | 6.2 | late | 2.0 | 1.8 |
| WMGx25 12-3 | 100 | 62.5 | ^ | ^ | | 10.0 | 6.3 | early | 2.5 | 1.6 |
| WMGx25 42-5 | 100 | 62.5 | ^ | ^ | | 10.0 | 6.3 | early | 2.9 | 2.3 |
| WMGx25 49-5 | 100 | 62.5 | ^ | ^ | | 10.0 | 6.3 | medium early | 2.8 | 2.1 |
| WMGx25 1-7 | 100 | 66.7 | ^ | ^ | | 9.8 | 6.8 | early | 2.5 | 2.3 |
| WMGx25 10-15 | 95 | 67.5 | ^ | ^ | | 10.0 | 6.8 | early | 2.6 | 1.6 |
| WMGx25 28-1 | 100 | 67.5 | ^ | ^ | | 10.0 | 6.8 | early | 2.5 | 1.6 |
| WMGx25 17-6 | 93 | 68.2 | ^ | ^ | | 10.0 | 6.8 | early | 2.8 | 2 |
| WMGx25 24-7 | 98 | 72.5 | ^ | ^ | | 10.0 | 7.3 | early | 2.8 | 1.9 |
| WMGx25 40-6 | 94 | 72.5 | ^ | ^ | | 10.0 | 7.3 | early | 2.6 | 1.6 |
| WMGx25 9-10 | 100 | 73.5 | ^ | ^ | | 9.8 | 7.5 | early | 2.9 | 2.1 |
| WMGx25 27-3 | 94 | 75.0 | ^ | ^ | | 10.0 | 7.5 | early | 2.5 | 1.8 |
| WMGx25 9-16 | 100 | 75.0 | ^ | ^ | | 10.0 | 7.5 | medium early | 2.4 | 1.8 |
| WMGx25 50-3 | 100 | 77.5 | ^ | ^ | | 10.0 | 7.8 | early | 2.5 | 1.9 |
| WMGx25 3-18 | 95 | 80.0 | ^ | ^ | ^ | 10.0 | 8.0 | early | 2.9 | 1.9 |

[z]Planted June 29. 91G x PI 255956 is a *Phaseolus vulgaris x Phaseolus coccineus* interspecific cross. [y]Scores based on a scale of 1-10 where 1 is highly resistant. ** indicates significantly better than this check ($p<0.05$); ^ indicates significantly worse than this check ($p<0.05$).

**Table 19. Comparison of white mold field averages, two years combined, for a 91G x PI255956 $BC_2F_6$ population, Corvallis, 2007[z].**

| Entry | 2006 | 2007 | Overall AV |
|---|---|---|---|
| G122 | 2.3 | 7.3 | 4.8 |
| WMGx25 20-3 | 3.1 | 8.0 | 5.6 |
| WMGx25 6-9 | 3.5 | 8.4 | 6.0 |
| WMGx25 18-1 | 2.1 | 9.9 | 6.0 |
| WMGx25 13-14 | 3.0 | 9.1 | 6.1 |
| WMGx25 6-3 | 3.5 | 8.8 | 6.2 |
| WMGx25 20-2 | 3.1 | 9.5 | 6.3 |
| M0162 | 2.7 | 9.9 | 6.3 |
| WMGx25 44-3 | 3.5 | 10.0 | 6.8 |
| WMGx25 48-5 | 3.6 | 10.0 | 6.8 |
| WMGx25 45-1 | 4.0 | 9.6 | 6.8 |
| WMGx25 21-1 | 4.0 | 10.0 | 7.0 |
| WMGx25 29-9 | 4.1 | 10.0 | 7.1 |
| WMGx25 41-2 | 4.5 | 9.9 | 7.2 |
| WMGx25 41-7 | 4.6 | 9.9 | 7.3 |
| WMGx25 12-3 | 4.6 | 10.0 | 7.3 |
| WMGx25 3-15 | 5.0 | 9.9 | 7.5 |
| WMGx25 7-2 | 5.5 | 9.5 | 7.5 |
| WMGx25 17-4 | 5.1 | 10.0 | 7.6 |
| WMGx25 43-4 | 5.5 | 9.8 | 7.7 |
| WMGx25 47-4 | 5.6 | 9.8 | 7.7 |
| WMGx25 31-6 | 5.5 | 10.0 | 7.8 |
| WMGx25 9-10 | 5.8 | 9.8 | 7.8 |
| WMGx25 42-1 | 6.5 | 9.3 | 7.9 |
| WMGx25 11-1 | 6.1 | 9.8 | 8.0 |
| WMGx25 8-1 | 6.5 | 9.4 | 8.0 |
| WMGx25 45-2 | 6.0 | 9.9 | 8.0 |
| WMGx25 1-7 | 6.1 | 9.8 | 8.0 |
| WMGx25 48-3 | 6.1 | 9.9 | 8.0 |
| WMGx25 25-3 | 6.0 | 10.0 | 8.0 |
| WMGx25 49-5 | 6.0 | 10.0 | 8.0 |
| WMGx25 41-11 | 6.3 | 10.0 | 8.2 |
| WMGx25 27-3 | 6.3 | 10.0 | 8.2 |
| WMGx25 3-18 | 6.3 | 10.0 | 8.2 |
| WMGx25 12-2 | 6.5 | 9.9 | 8.2 |
| WMGx25 9-16 | 6.4 | 10.0 | 8.2 |
| WMGx25 42-3 | 6.5 | 10.0 | 8.3 |
| WMGx25 4-6 | 7.3 | 9.5 | 8.4 |
| OR 91G | 6.9 | 10.0 | 8.5 |
| WMGx25 7-15 | 7.0 | 10.0 | 8.5 |
| WMGx25 24-7 | 7.0 | 10.0 | 8.5 |
| WMGx25 50-3 | 7.0 | 10.0 | 8.5 |
| WMGx25 28-1 | 7.1 | 10.0 | 8.6 |
| WMGx25 24-1 | 7.2 | 10.0 | 8.6 |
| WMGx25 40-6 | 7.3 | 10.0 | 8.7 |
| WMGx25 17-6 | 7.5 | 10.0 | 8.8 |
| WMGx25 28-4 | 8.0 | 10.0 | 9.0 |
| WMGx25 42-5 | 8.0 | 10.0 | 9.0 |
| WMGx25 10-15 | 8.1 | 10.0 | 9.1 |
| LSD @ .05 | | | 2.0 |

[z]White mold scores: 1-10, 1 = low incidence, no symptoms observed, 10 = high incidence, all plants in plot infected.

**Figure 1. Commercial Bean $/A 2007 - Full Sieve Varieties**

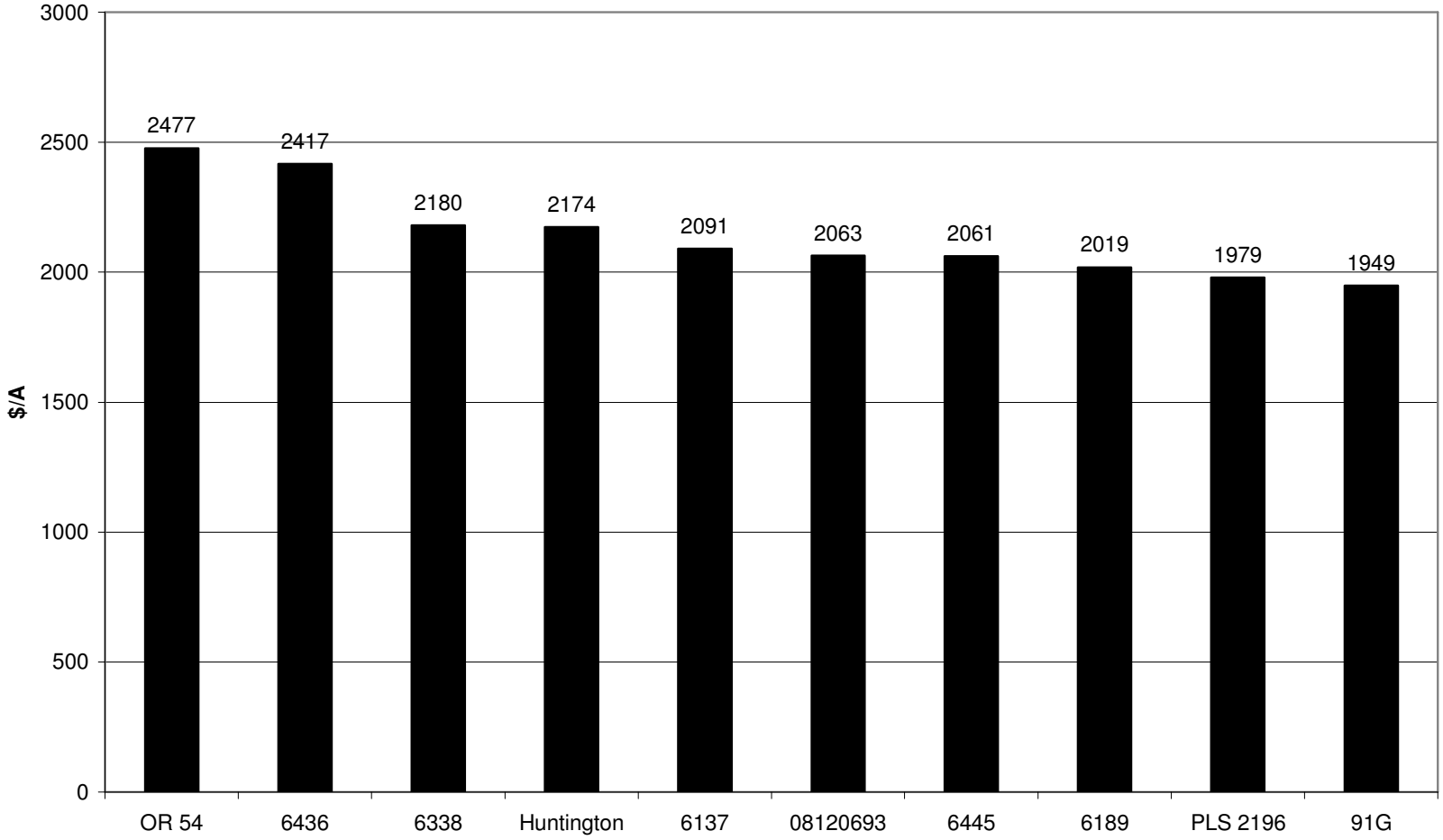

**Figure 2. Commercial Bean $/A 2007 - Small Sieve Varieties**