



Pulse Variety Evaluation in 2006

This insert features the results from MPGA sponsored trials.

What a difference a year makes. There was pulse data available two years in a row. Even better, we almost have a complete set of pulse data. Unlike 2005 when it was so wet, the majority of the uncontrolled variation in 2006 was due to extreme hot, dry weather in July and August that caused early maturity, smaller seed size and even some droughted-out pulse trials. Inside you will find the latest data on edible beans, peas, soybeans, fababeans and lentils.

Variety Evaluation Trials – Notes

As was done last year, the wide row edible bean trials have been organized into three different trials – small, medium and large seeded trials based on the closeness of the genetic backgrounds. The small seed trial on pages 2 and 3 contain the detailed navy and black bean trials at three locations – Winkler, Carman and Portage. Unfortunately, the Morden site was lost due to too much variation in the data. The key on page 3, provides an explanation of the headings used in all the edible bean trials. The pinto and pink beans (medium seed trial) are found on pages 4 and 5 and the various kidney and yellow beans (large seed trial) are on page 6 and 7. The overall summary for all wide row bean types tested in 2006 is on page 8.

A new narrow row (12-inch row spacing) edible bean trial was initiated right beside the traditional wide row trials in Morden, Winkler, Carman and Portage. This narrow row test was incorporated into the existing co-op test where we evaluated 5 navy, 5 black and 6 pinto varieties in 12-inch row spacing and at higher populations than the wide row trials. Varieties chosen for this trial are type-2 plants that will ultimately find their way into a swathing or a direct combining situation instead of the traditional undercutting operation with bean varieties such as AC Pintoba.

The soybean section begins on page 13 and the Roundup Ready trial lists the currently registered varieties grouped by early, mid or late season area, but with the company supplied Heat Unit rating beside each entry. Instead of using an actual number of days from seeding to 95% mature pod colour as we have in the past, new for 2006 is a *Relative Days to Maturity* column. The problem using actual Days to Maturity is that due to weather conditions the same variety can vary by as much as

10 days from year-to-year. To reduce the variation in days due to the weather, the data is presented plus-or-minus the number of days the variety matured from the check. This has made it easier to see the relative maturity ranking of the entries and to see how uniform they are or aren't, from year-to-year. We have also included Iron Deficiency Chlorosis (IDC) scores for some of the Roundup Ready varieties. The ratings range from 1 to 5 with the lower numbers representing the more tolerant varieties to iron chlorosis. While these numbers are from one site in one year, they may not represent absolute differences between varieties, but from general field observations, they do represent the relative tolerance to iron chlorosis. Finally, shattering was a significant issue for the early season Roundup Ready varieties at 3 trial locations – Portage, Stonewall and St. Adolphe. Take the numbers with a grain of salt because shattering was significant up to 40% in some of the plots.


For growers in the western side of Manitoba, the field pea data on page 9 shows data from 24 entries over 6 locations in 2006. Note that CDC Mozart is the new check variety, and for the first time in a number of years we are testing a new silage pea, a maple and mottled colour dunn pea that will be aimed at the birdseed market. The renamed *Western Manitoba Narrow Row Bean* trials on page 12 is a continuation of adaptation trials that have been run for the last several years and are conducted at several sites throughout Saskatchewan as well. The lentil trial on page 15 shows data from 3 Manitoba sites and is also an extension of the Saskatchewan Regional Lentil trial. At the bottom of page 14 is some of the soybean data collected from an adaptation trial that spans the prairies from Bow Island, AB to Western Manitoba and even includes 4 locations in Northwestern Ontario.

Discussion of CV, LSD and other tools to interpret the data.

As you review the data in any of the tables, there are some things you will need to be aware of when interpreting the data. The check varieties are featured in **bold type** in an effort to make it easier for you to compare other varieties to the check.

At the bottom of each table you will notice a CV (Coefficient of Variation) and LSD (Least Significant Difference). The CV is a measurement that describes the amount of variation found within the trial. While a small %CV is desirable, trials having a CV of less than 20% indicate valid data. After statistics are run on a trial, the LSD for yield is generated. **For the edible bean trials** the LSD represents the amount of beans (in lb/acre) that two varieties have to differ before you can say with a 95% chance of certainty that a true difference exists between the two varieties that have been grown in the same trial. Where LSD for other crops is reported as LSD%, the yields (that are reported in a percent of the check) between two varieties have to differ by more than that percentage before they are considered to be significantly different from each other.

Remember, the best way to determine the suitability of a variety is to see it in as many different settings and even years as possible. It is good to use industry information sites promoting certain varieties, but for a good balance make sure you compare this information with data obtained from the MPGA sponsored variety plots scattered around the province.

The evaluation of pulse varieties across 5 different crop types (peas, lentils, fababeans, edible beans and soybeans) is made possible with your continued support through the check-off levy. Financial assistance was also received from the federal government's Matching Investment Initiatives (MII). The Manitoba Crop Variety Evaluation Team (MCVET) provided the pea data and cost-shared the fababean and lentil data with the MPGA. 

We would like to acknowledge all the hard work of the staff at Agriculture and Agri-Food Canada, Morden Research Station, for conducting the Wide Row Screening Trials and summarizing all the crop yield, disease and seed quality data in time for this publication. In addition we would like to acknowledge all the other contractors who plant, monitor and harvest the plots. Thanks also to MPGA directors Bruce Brolley, Business Development Specialist – Pulses, Manitoba Agriculture Food and Rural Initiatives, and Dennis Lange, Agronomist, Parent Seed Farms Ltd. for compiling the data for this publication.

2006 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

Winkler

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|--------------|------------------|---------------|----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | | | |
| AC Cruiser | 104 | 3050 | 2b | 85 | 2.7 | 80 | 191 | 2.0 | 4.0 | 40 | 0.0 | 5 |
| AC Mast | 103 | 2974 | 2b | 68 | 3.7 | 68 | 178 | 2.3 | 4.3 | 43 | 1.3 | 7 |
| Cargo | 101 | 2767 | 1 | 55 | 3.3 | 77 | 172 | 2.0 | 4.0 | 40 | 0.0 | 18 |
| Cirrus | 99 | 3236 | 2b | 88 | 3.7 | 63 | 174 | 2.3 | 3.7 | 32 | 0.0 | 12 |
| Envoy | 100 | 2974 | 1 | 60 | 3.3 | 78 | 173 | 2.0 | 4.0 | 40 | 0.0 | 23 |
| Galley | 104 | 3028 | 2b | 85 | 3.0 | 80 | 179 | 2.7 | 4.0 | 40 | 0.0 | 22 |
| GTS 546 | 98 | 2989 | 1 | 63 | 3.0 | 78 | 175 | 2.0 | 4.0 | 40 | 0.0 | 23 |
| HR 164 | 105 | 3326 | 2b | 85 | 1.7 | 90 | 202 | 2.7 | 4.0 | 37 | 0.7 | 10 |
| Kippen | 97 | 3082 | 2a, 2b | 68 | 2.0 | 85 | 160 | 2.3 | 3.3 | 23 | 0.0 | 7 |
| Morden003 | 94 | 3399 | 1 | 60 | 3.0 | 78 | 174 | 2.3 | 4.0 | 33 | 0.0 | 13 |
| NA 00076 | 104 | 2585 | 2b | 98 | 2.7 | 83 | 162 | 2.7 | 4.0 | 40 | 0.7 | 15 |
| NA 01054 | 105 | 3150 | 2b | 95 | 3.0 | 85 | 159 | 3.0 | 4.0 | 32 | 0.0 | 28 |
| NA 99081 | 105 | 3182 | 2b | 90 | 3.0 | 83 | 157 | 2.7 | 4.3 | 35 | 0.0 | 12 |
| Norstar | 100 | 2821 | 2b | 100 | 4.0 | 55 | 154 | 2.0 | 4.3 | 40 | 0.7 | 15 |
| OAC 05-1 | 87 | 2477 | 1 | 63 | 4.0 | 64 | 144 | 3.0 | 4.0 | 27 | 2.7 | 25 |
| ROG417 | 93 | 2306 | 2b | 88 | 1.7 | 93 | 155 | 3.0 | 4.0 | 32 | 2.3 | 28 |
| T9903 | 100 | 2531 | 3 | 103 | 3.0 | 78 | 182 | 2.3 | 4.0 | 30 | 0.0 | 17 |
| 811 | 101 | 2564 | 2a, 2b | 98 | 2.3 | 85 | 161 | 3.0 | 4.0 | 43 | 0.0 | 17 |
| 862 | 105 | 2619 | 2b | 95 | 3.7 | 80 | 179 | 2.7 | 4.0 | 40 | 0.3 | 17 |
| Mean | | 2898 | | | | | | | | | | |
| CV% | | 8.7 | | | | | | | | | | |
| LSD | | 474 | | | | | | | | | | |

BLACK

| | | | | | | | | | | | | |
|----------------|------------|-------------|-----------|-----------|------------|-----------|------------|------------|------------|-----------|------------|-----------|
| AC Harblack | 101 | 2682 | 2a | 83 | 4.0 | 75 | 157 | 2.3 | 4.0 | 40 | 0.0 | 27 |
| BL 00044 | 107 | 3256 | 3 | 80 | 2.7 | 82 | 184 | 1.7 | 4.0 | 37 | 0.0 | 9 |
| Black Velvet | 107 | 2842 | 2a | 80 | 3.0 | 85 | 198 | 2.3 | 4.0 | 35 | 0.7 | 12 |
| Black Violet | 100 | 2673 | 2a | 63 | 3.0 | 80 | 184 | 2.7 | 4.0 | 27 | 0.0 | 22 |
| CDC Jet | 100 | 2913 | 2a | 68 | 3.0 | 80 | 197 | 2.3 | 4.0 | 37 | 0.0 | 15 |
| Eclipse | 98 | 2829 | 2a | 80 | 2.0 | 85 | 164 | 2.0 | 4.0 | 37 | 0.0 | 18 |
| Harohawk | 101 | 2733 | 2a | 83 | 2.0 | 87 | 163 | 2.0 | 3.3 | 28 | 0.0 | 27 |
| UI 911 | 102 | 2601 | 3 | 108 | 3.3 | 72 | 180 | 2.3 | 4.0 | 35 | 0.0 | 27 |
| 316-13 | 92 | 2699 | 2a, 2b | 78 | 2.7 | 77 | 183 | 2.7 | 3.7 | 37 | 0.0 | 30 |
| 866 | 102 | 2877 | 2a, 2b | 85 | 2.3 | 87 | 192 | 2.0 | 4.0 | 35 | 0.0 | 23 |
| Mean | | 2810 | | | | | | | | | | |
| CV% | | 11.3 | | | | | | | | | | |
| LSD | | 620 | | | | | | | | | | |

Carman

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|--------------|------------------|---------------|----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | | | |
| AC Cruiser | 86 | 2265 | 2b | 53 | 1.7 | 90 | 181 | 3.0 | 4.0 | 40 | 0.0 | 5.0 |
| AC Mast | 87 | 1770 | 2b | 58 | 1.7 | 90 | 167 | 3.3 | 4.0 | 40 | 7.0 | 0.0 |
| Cargo | 85 | 2732 | 1 | 50 | 2.7 | 82 | 181 | 3.0 | 4.0 | 40 | 0.7 | 1.7 |
| Cirrus | 84 | 2104 | 2b | 63 | 1.3 | 78 | 162 | 4.0 | 4.0 | 37 | 1.7 | 0.0 |
| Envoy | 88 | 1746 | 1 | 55 | 2.3 | 83 | 174 | 3.0 | 4.0 | 37 | 0.0 | 3.3 |
| Galley | 87 | 1866 | 2b | 73 | 1.0 | 85 | 173 | 3.0 | 4.0 | 40 | 0.3 | 1.7 |
| GTS 546 | 84 | 1974 | 1 | 68 | 2.0 | 88 | 171 | 3.0 | 4.0 | 33 | 1.0 | 0.0 |
| HR 164 | 91 | 2517 | 2b | 70 | 1.0 | 92 | 205 | 3.0 | 4.0 | 33 | 0.0 | 0.0 |
| Kippen | 84 | 2443 | 2a | 50 | 1.0 | 90 | 150 | 4.0 | 3.3 | 23 | 0.0 | 0.0 |
| Morden003 | 84 | 1675 | 1 | 50 | 1.0 | 92 | 163 | 3.3 | 4.0 | 28 | 0.0 | 0.0 |
| NA 00076 | 89 | 1939 | 2b | 80 | 1.0 | 92 | 165 | 3.0 | 4.0 | 37 | 0.3 | 3.3 |
| NA 01054 | 89 | 2315 | 2b | 68 | 1.0 | 95 | 168 | 3.0 | 3.7 | 22 | 0.0 | 0.0 |
| NA 99081 | 90 | 2371 | 2b | 65 | 1.0 | 93 | 161 | 4.0 | 4.0 | 40 | 0.0 | 0.0 |
| Norstar | 87 | 1809 | 2b | 68 | 2.3 | 83 | 159 | 4.0 | 4.0 | 40 | 1.3 | 0.0 |
| OAC 05-1 | 81 | 1829 | 1 | 53 | 1.3 | 87 | 142 | 4.0 | 4.0 | 40 | 2.0 | 0.0 |
| ROG417 | 83 | 1641 | 2b | 63 | 1.0 | 87 | 147 | 4.0 | 3.3 | 27 | 0.0 | 0.0 |
| T9903 | 87 | 2353 | 2b | 58 | 1.7 | 90 | 192 | 2.0 | 3.7 | 22 | 0.0 | 0.0 |
| 811 | 87 | 2393 | 2b | 73 | 1.3 | 92 | 176 | 3.0 | 4.0 | 37 | 0.0 | 0.0 |
| 862 | 89 | 1865 | 2b | 75 | 1.3 | 92 | 190 | 3.0 | 4.0 | 40 | 0.0 | 0.0 |
| Mean | | 2084 | | | | | | | | | | |
| CV% | | 15.3 | | | | | | | | | | |
| LSD | | 600 | | | | | | | | | | |

BLACK

| | | | | | | | | | | | | |
|----------------|-----------|-------------|-----------|-----------|------------|-----------|------------|------------|------------|-----------|------------|------------|
| AC Harblack | 89 | 2760 | 2a | 58 | 2.0 | 90 | 176 | 2.0 | 3.7 | 23 | 0.3 | 5.0 |
| BL 00044 | 89 | 1768 | 2a | 65 | 1.7 | 93 | 177 | 2.0 | 4.0 | 28 | 0.3 | 0.0 |
| Black Velvet | 91 | 2167 | 2a | 55 | 1.3 | 92 | 208 | 2.0 | 4.0 | 43 | 0.0 | 1.7 |
| Black Violet | 87 | 2126 | 2a | 53 | 1.0 | 93 | 176 | 2.0 | 4.0 | 28 | 0.0 | 5.0 |
| CDC Jet | 87 | 2109 | 2a | 58 | 1.0 | 95 | 185 | 1.0 | 4.0 | 27 | 0.0 | 3.3 |
| Eclipse | 86 | 2332 | 2a | 63 | 1.0 | 90 | 172 | 2.0 | 3.7 | 32 | 0.3 | 0.0 |
| Harohawk | 89 | 2115 | 2a | 55 | 1.3 | 90 | 184 | 2.0 | 3.7 | 23 | 0.0 | 0.0 |
| UI 911 | 84 | 1287 | 2a, 2b | 50 | 1.7 | 83 | 163 | 4.0 | 4.0 | 33 | 0.7 | 0.0 |
| 316-13 | 82 | 2037 | 2a, 2b | 55 | 1.0 | 87 | 185 | 4.0 | 3.7 | 30 | 0.0 | 0.0 |
| 866 | 87 | 1760 | 2a | 55 | 1.0 | 92 | 189 | 3.0 | 4.0 | 33 | 0.0 | 0.0 |
| Mean | | 2046 | | | | | | | | | | |
| CV% | | 15.4 | | | | | | | | | | |
| LSD | | 616 | | | | | | | | | | |

Portage

| Entry | Days to Maturity | Yield lb/acre | Plant Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|----------------|------------------|---------------|----------------|-----------|---------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | | | |
| AC Cruiser | 98 | 2819 | 2b | 38 | - | - | 190 | 2.0 | 4.0 | 17 | 0.0 | 0.0 |
| AC Mast | 98 | 2597 | 2b | 35 | - | - | 191 | 2.0 | 4.0 | 17 | 0.0 | 1.7 |
| Cargo | 98 | 2559 | 1 | 32 | - | - | 185 | 2.3 | 4.0 | 37 | 0.0 | 0.0 |
| Cirrus | 98 | 2777 | 2b | 36 | - | - | 188 | 2.7 | 4.0 | 30 | 0.0 | 1.7 |
| Envoy | 101 | 2481 | 1 | 33 | - | - | 197 | 2.3 | 4.0 | 27 | 0.0 | 0.0 |
| Galley | 96 | 2758 | 2b | 40 | - | - | 200 | 2.3 | 4.0 | 23 | 0.0 | 0.0 |
| GTS 546 | 98 | 2640 | 1 | 32 | - | - | 193 | 2.7 | 4.0 | 23 | 0.0 | 1.7 |
| HR 164 | 99 | 2672 | 2a, 2b | 45 | - | - | 209 | 2.7 | 3.7 | 17 | 0.0 | 0.0 |
| Kippen | 95 | 2820 | 2a, 2b | 47 | - | - | 171 | 2.0 | 4.0 | 13 | 0.0 | 0.0 |
| Morden003 | 98 | 2577 | 1 | 40 | - | - | 183 | 3.0 | 4.0 | 27 | 0.0 | 0.7 |
| NA 00076 | 99 | 2595 | 2b | 47 | - | - | 182 | 2.3 | 3.7 | 13 | 0.0 | 0.0 |
| NA 01054 | 97 | 2395 | 2b | 53 | - | - | 175 | 3.0 | 4.0 | 17 | 0.0 | 0.0 |
| NA 99081 | 98 | 2347 | 2b | 48 | - | - | 167 | 3.0 | 4.0 | 18 | 0.0 | 0.0 |
| Norstar | 97 | 2776 | 2b | 40 | - | - | 180 | 2.3 | 4.0 | 30 | 0.0 | 0.0 |
| OAC 05-1 | 92 | 2776 | 1 | 38 | - | - | 179 | 3.0 | 4.0 | 37 | 0.0 | 1.7 |
| R0G417 | 90 | 2525 | 2a, 2b | 53 | - | - | 179 | 2.3 | 4.0 | 17 | 0.0 | 0.0 |
| T9903 | 97 | 2670 | 2b | 38 | - | - | 221 | 2.3 | 3.7 | 15 | 0.0 | 0.0 |
| 811 | 98 | 2732 | 2a, 2b | 47 | - | - | 197 | 2.0 | 3.7 | 13 | 0.0 | 0.0 |
| 862 | 97 | 2281 | 2a | 47 | - | - | 212 | 3.0 | 4.7 | 32 | 0.0 | 0.0 |
| | Mean | 2621 | | | | | | | | | | |
| | CV% | 8.5 | | | | | | | | | | |
| | LSD | 420 | | | | | | | | | | |
| BLACK | | | | | | | | | | | | |
| AC Harblack | 98 | 3002 | 2a | 33 | - | - | 191 | 1.7 | 3.7 | 8 | 0.0 | 0.0 |
| BL 00044 | 100 | 2130 | 2a | 38 | - | - | 189 | 2.3 | 3.7 | 10 | 0.0 | 0.0 |
| Black Velvet | 99 | 2487 | 2a | 52 | - | - | 217 | 2.0 | 4.0 | 10 | 0.0 | 0.0 |
| Black Violet | 98 | 2571 | 2a | 40 | - | - | 195 | 3.0 | 3.7 | 12 | 0.0 | 0.0 |
| CDC Jet | 98 | 2447 | 2a | 42 | - | - | 207 | 2.0 | 4.0 | 13 | 0.0 | 0.0 |
| Eclipse | 97 | 2416 | 2a, 2b | 53 | - | - | 189 | 2.0 | 4.0 | 20 | 0.7 | 0.0 |
| Harohawk | 97 | 2054 | 2a | 48 | - | - | 185 | 2.0 | 4.0 | 13 | 0.0 | 1.7 |
| UI 911 | 98 | 1840 | 2b | 33 | - | - | 197 | 2.7 | 4.0 | 28 | 0.0 | 0.0 |
| 316-13 | 98 | 2041 | 2a | 38 | - | - | 210 | 3.0 | 4.0 | 22 | 0.0 | 0.0 |
| 866 | 100 | 2402 | 2a | 45 | - | - | 209 | 2.3 | 3.3 | 8 | 0.0 | 0.0 |
| | Mean | 2339 | | | | | | | | | | |
| | CV% | 9.0 | | | | | | | | | | |
| | LSD | 412 | | | | | | | | | | |

KEY – APPLICABLE TO ALL EDIBLE BEAN CHARTS

| Agronomic Traits | | Disease Traits | |
|---------------------------|---|--|--|
| Plant Type (1-3) | 1 = Determinate bush 2 = Indeterminate bush, erect stem and branches 2a: Without guides 2b: With guides and ability to climb 3 = Indeterminate bush with weak and prostrate stem and branches 3a: Short guides with no ability to climb 3b: Long guides with ability to climb | Field Rating: | |
| Plant Height | Plant height in cm, rated at maturity | Bacterial Blight Severity (0-5) | 0 = No observable lesions or other signs of infection (HR) 1 = < 5% of plant area (leaf and stem-hypocotyls) diseased (R) 2 = 5-10% of plant area diseased (MR) 3 = 10-25% of plant area diseased (MS) 4 = 25-50% of plant area diseased (S) 5 = 50-100% of plant area diseased or death of seedling (HS) |
| Maturity | Number of days to when 90% of plants ready to combine | Bacterial Blight Incidence | - % leaf tissue infected |
| Lodging (1-5) | Rated at maturity 1 = upright 5 = flat on the ground | Anthracnose Incidence | - % plant tissue infected |
| Pod Ht (> 5 cm) | % of pods above 5 cm from the ground | Rust Incidence | - % plant tissue infected |
| Yield | lb/acre | White Mould Incidence | - Percent plant tissue infected |
| Seed Weight | Grams per 1000 seeds | | |
| Seed Quality (1-5) | Based on size, shape, colour and wrinkle-free seed coat 1 = very good 5 = very poor | | |

CV Coefficient of Variation. The measure of random variation in a trial. CV less than 20% indicates valid data.

LSD Least Significant Difference. Amount of beans (lb/acre) that two varieties must differ before it can be said with a 95% chance of certainty that a true difference exists.

2006 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

Morden

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-------------------|------------------|---------------|-----------|------------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| PINTO | | | | | | | | | | | | |
| AC Ole | 95 | 707 | 2a, 2b | 68 | 2.3 | 80 | 359 | 2.0 | 4.0 | 20 | 0.0 | 0.0 |
| AC Pintoba | 100 | 1025 | 2b | 100 | 3.0 | 77 | 369 | 2.7 | 3.7 | 14 | 0.0 | 0.0 |
| Agrinto | 85 | 1206 | 2b | 75 | 1.3 | 92 | 303 | 3.0 | 4.0 | 15 | 0.0 | 0.0 |
| Buster | 93 | 1266 | 2a, 2b | 73 | 2.7 | 75 | 347 | 2.3 | 3.0 | 12 | 0.0 | 0.0 |
| La Paz | 95 | 1243 | 2b | 80 | 2.0 | 87 | 383 | 2.3 | 4.0 | 17 | 0.0 | 0.3 |
| Maverick | 94 | 1274 | 2b | 68 | 2.7 | 80 | 336 | 2.3 | 3.3 | 8 | 0.0 | 1.7 |
| Pecos | 90 | 1254 | 2a | 55 | 1.3 | 83 | 296 | 2.0 | 4.0 | 17 | 0.0 | 0.0 |
| Pinata | 83 | 964 | 3 | 48 | 2.7 | 67 | 325 | 2.0 | 3.7 | 8 | 0.0 | 0.0 |
| PT 99195MR | 95 | 1456 | 2b | 60 | 2.7 | 83 | 328 | 1.7 | 4.0 | 23 | 0.0 | 0.0 |
| PT 99204 | 90 | 1273 | 2b | 55 | 2.0 | 82 | 281 | 3.0 | 4.0 | 20 | 0.0 | 0.0 |
| PT 99230 | 90 | 1397 | 2b | 83 | 2.0 | 83 | 321 | 2.0 | 4.0 | 23 | 0.0 | 0.0 |
| Rally | 91 | 1625 | 2b | 70 | 1.7 | 82 | 373 | 2.3 | 3.7 | 13 | 0.0 | 0.0 |
| Topaz R | 84 | 855 | 2b | 73 | 2.3 | 78 | 296 | 3.0 | 3.7 | 15 | 0.0 | 0.0 |
| Windbreaker | 95 | 1131 | 2b | 65 | 2.7 | 77 | 359 | 2.3 | 3.7 | 13 | 0.0 | 0.3 |
| 0800 | 92 | 1370 | 2a | 53 | 1.3 | 83 | 364 | 2.0 | 3.7 | 12 | 0.3 | 1.0 |
| 0813 | 86 | 1440 | 2a | 53 | 2.0 | 78 | 294 | 2.7 | 3.7 | 15 | 0.7 | 0.0 |
| | Mean | 1218 | | | | | | | | | | |
| | CV% | 12.2 | | | | | | | | | | |
| | LSD | 281 | | | | | | | | | | |

| | | | | | | | | | | | | |
|---------------|-----------|-------------|----------|-----------|------------|-----------|------------|------------|------------|-----------|------------|------------|
| PINK | | | | | | | | | | | | |
| CDC Rosalee | 86 | 1014 | 2a | 50 | 3.0 | 78 | 253 | 3.0 | 4.0 | 23 | 0.0 | 0.0 |
| Early Rose | 84 | 1399 | 2a | 45 | 2.3 | 78 | 273 | 3.0 | 3.7 | 20 | 0.0 | 0.0 |
| Pink Floyd | 91 | 1550 | 3a | 53 | 3.3 | 68 | 257 | 2.7 | 3.7 | 20 | 0.0 | 0.0 |
| ROG312 | 93 | 1493 | 3 | 68 | 3.3 | 72 | 260 | 2.3 | 4.0 | 20 | 0.7 | 0.0 |
| ROG922 | 94 | 1469 | 2a, 2b | 65 | 2.0 | 85 | 306 | 2.3 | 3.7 | 7 | 0.0 | 0.0 |
| | Mean | 1385 | | | | | | | | | | |
| | CV% | 7.5 | | | | | | | | | | |
| | LSD | 223 | | | | | | | | | | |

Winkler

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-------------------|------------------|---------------|----------|------------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| PINTO | | | | | | | | | | | | |
| AC Ole | 99 | 2952 | 2b | 87 | 4.0 | 48 | 371 | 2.7 | 3.7 | 22 | 0.0 | 20 |
| AC Pintoba | 103 | 2944 | 3 | 102 | 4.0 | 52 | 359 | 2.7 | 3.0 | 13 | 0.0 | 17 |
| Agrinto | 95 | 2609 | 2b | 98 | 2.7 | 82 | 349 | 2.3 | 4.0 | 27 | 0.0 | 22 |
| Buster | 100 | 3141 | 3 | 98 | 4.7 | 40 | 352 | 2.7 | 4.0 | 18 | 0.0 | 20 |
| La Paz | 102 | 2436 | 2b | 102 | 2.3 | 77 | 329 | 2.3 | 4.0 | 27 | 0.0 | 25 |
| Maverick | 99 | 2648 | 3 | 103 | 4.0 | 48 | 348 | 2.7 | 4.0 | 27 | 0.0 | 25 |
| Pecos | 97 | 2457 | 3 | 63 | 2.3 | 65 | 337 | 2.3 | 4.0 | 27 | 0.0 | 8 |
| Pinata | 90 | 2541 | 3 | 83 | 4.7 | 33 | 366 | 3.0 | 4.0 | 37 | 0.0 | 32 |
| PT 99195MR | 103 | 1632 | 3 | 105 | 4.0 | 55 | 307 | 2.0 | 4.0 | 10 | 0.0 | 40 |
| PT 99204 | 96 | 2576 | 3 | 92 | 3.0 | 62 | 338 | 2.7 | 4.0 | 37 | 0.0 | 32 |
| PT 99230 | 99 | 2888 | 3 | 95 | 3.3 | 58 | 342 | 2.3 | 4.0 | 33 | 0.0 | 23 |
| Rally | 98 | 2911 | 2b | 102 | 4.0 | 50 | 355 | 2.0 | 4.0 | 40 | 0.0 | 28 |
| Topaz R | 91 | 2490 | 3 | 77 | 3.3 | 60 | 361 | 2.7 | 4.0 | 40 | 0.0 | 7 |
| Windbreaker | 98 | 3245 | 2b | 92 | 4.0 | 50 | 358 | 2.0 | 4.0 | 20 | 0.0 | 32 |
| 0800 | 94 | 2037 | 2a, 2b | 70 | 3.0 | 67 | 332 | 2.7 | 4.0 | 37 | 0.3 | 25 |
| 0813 | 93 | 2874 | 2b | 73 | 3.0 | 70 | 346 | 3.0 | 4.0 | 40 | 0.7 | 25 |
| | Mean | 2649 | | | | | | | | | | |
| | CV% | 10.5 | | | | | | | | | | |
| | LSD | 528 | | | | | | | | | | |

| | | | | | | | | | | | | |
|---------------|-----------|-------------|-----------|-----------|------------|-----------|------------|------------|------------|-----------|------------|-----------|
| PINK | | | | | | | | | | | | |
| CDC Rosalee | 96 | 2497 | 3 | 75 | 3.3 | 60 | 270 | 2.3 | 4.0 | 40 | 0.0 | 6 |
| Early Rose | 85 | 2582 | 2a | 58 | 3.7 | 58 | 308 | 2.7 | 4.0 | 28 | 0.0 | 13 |
| Pink Floyd | 99 | 2830 | 3 | 65 | 4.7 | 38 | 314 | 2.3 | 4.0 | 37 | 0.0 | 15 |
| ROG312 | 99 | 2710 | 2b | 83 | 5.0 | 33 | 311 | 2.0 | 4.0 | 28 | 0.7 | 17 |
| ROG922 | 99 | 2404 | 3 | 82 | 3.0 | 72 | 341 | 2.0 | 4.0 | 30 | 0.0 | 13 |
| | Mean | 2605 | | | | | | | | | | |
| | CV% | 6.7 | | | | | | | | | | |
| | LSD | 373 | | | | | | | | | | |

Carman

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-------------------|------------------|---------------|-----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| PINTO | | | | | | | | | | | | |
| AC Ole | 85 | 1961 | 2b | 45 | 2.0 | 85 | 359 | 3.0 | 4.0 | 20 | 0.0 | 0.7 |
| AC Pintoba | 90 | 1435 | 2b | 46 | 2.3 | 82 | 355 | 3.3 | 4.0 | 20 | 0.0 | 0.0 |
| Agrinto | 79 | 1923 | 2b | 39 | 2.0 | 90 | 312 | 4.0 | 4.0 | 12 | 0.3 | 0.0 |
| Buster | 96 | 1853 | 2b | 46 | 2.7 | 82 | 347 | 3.0 | 3.3 | 15 | 0.0 | 0.0 |
| La Paz | 88 | 2212 | 2b | 47 | 2.0 | 87 | 348 | 3.0 | 4.0 | 20 | 1.3 | 0.3 |
| Maverick | 84 | 1767 | 2b | 47 | 3.0 | 78 | 327 | 3.0 | 3.7 | 12 | 0.0 | 0.0 |
| Pecos | 84 | 1325 | 2a | 46 | 1.0 | 82 | 309 | 3.0 | 4.0 | 12 | 0.0 | 0.0 |
| Pinata | 81 | 1680 | 2b | 38 | 2.7 | 72 | 375 | 2.7 | 3.7 | 15 | 0.0 | 0.0 |
| PT 99195MR | 86 | 2072 | 2b | 46 | 2.3 | 87 | 317 | 3.0 | 3.7 | 23 | 0.0 | 0.0 |
| PT 99204 | 80 | 1735 | 2b | 43 | 1.7 | 85 | 287 | 4.0 | 4.0 | 20 | 0.0 | 0.0 |
| PT 99230 | 82 | 1851 | 2b | 45 | 2.0 | 83 | 315 | 3.0 | 3.3 | 13 | 0.0 | 1.7 |
| Rally | 86 | 1865 | 2b | 43 | 2.3 | 85 | 356 | 3.0 | 4.0 | 23 | 0.0 | 0.0 |
| Topaz R | 80 | 1378 | 2b | 43 | 2.3 | 77 | 310 | 3.0 | 3.7 | 14 | 0.0 | 0.0 |
| Windbreaker | 85 | 2007 | 2b | 44 | 2.7 | 78 | 358 | 4.0 | 3.7 | 12 | 0.0 | 0.0 |
| 0800 | 84 | 1338 | 2a | 43 | 1.3 | 80 | 315 | 2.0 | 3.7 | 8 | 0.0 | 0.7 |
| 0813 | 83 | 1536 | 2a | 42 | 1.3 | 83 | 303 | 3.0 | 3.7 | 15 | 0.0 | 0.0 |
| | Mean | 1746 | | | | | | | | | | |
| | CV% | 13.0 | | | | | | | | | | |
| | LSD | 432 | | | | | | | | | | |

PINK

| | | | | | | | | | | | | |
|---------------|-----------|-------------|-----------|-----------|------------|-----------|------------|------------|------------|-----------|------------|------------|
| CDC Rosalee | 78 | 1535 | 2a | 39 | 2.0 | 85 | 253 | 4.0 | 4.0 | 23 | 0.0 | 0.0 |
| Early Rose | 71 | 1952 | 2a | 39 | 2.0 | 83 | 265 | 4.0 | 3.7 | 17 | 0.0 | 0.0 |
| Pink Floyd | 83 | 2189 | 2b | 40 | 3.3 | 75 | 298 | 3.7 | 3.7 | 20 | 0.0 | 0.0 |
| ROG312 | 82 | 1717 | 2b | 39 | 3.3 | 75 | 290 | 3.0 | 3.3 | 12 | 0.0 | 0.0 |
| ROG922 | 85 | 1990 | 2b | 42 | 1.7 | 92 | 315 | 3.0 | 4.0 | 10 | 0.0 | 0.0 |
| | Mean | 1877 | | | | | | | | | | |
| | CV% | 13.8 | | | | | | | | | | |
| | LSD | 555 | | | | | | | | | | |

Portage

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-------------------|------------------|---------------|----------|-----------|---------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| PINTO | | | | | | | | | | | | |
| AC Ole | 93 | 2563 | 3 | 32 | - | - | 384 | 2.7 | 4.0 | 17 | 0.0 | 0.3 |
| AC Pintoba | 96 | 2842 | 3 | 33 | - | - | 390 | 2.3 | 4.0 | 13 | 0.0 | 0.0 |
| Agrinto | 95 | 1917 | 2b | 34 | - | - | 338 | 3.0 | 4.0 | 20 | 0.3 | 0.0 |
| Buster | 92 | 2592 | 2b | 32 | - | - | 364 | 2.0 | 4.0 | 20 | 0.0 | 0.0 |
| La Paz | 95 | 2376 | 2b | 40 | - | - | 345 | 2.0 | 4.0 | 18 | 1.3 | 3.3 |
| Maverick | 92 | 2530 | 2b | 33 | - | - | 372 | 2.0 | 4.0 | 20 | 0.0 | 3.3 |
| Pecos | 97 | 2105 | 2b | 38 | - | - | 332 | 2.3 | 4.0 | 22 | 0.0 | 0.0 |
| Pinata | 94 | 1794 | 3 | 30 | - | - | 402 | 2.0 | 4.0 | 17 | 0.0 | 3.3 |
| PT 99195MR | 97 | 3110 | 2b | 33 | - | - | 330 | 2.0 | 4.0 | 20 | 0.0 | 3.3 |
| PT 99204 | 97 | 2584 | 2b | 35 | - | - | 356 | 2.3 | 4.0 | 27 | 0.0 | 3.3 |
| PT 99230 | 95 | 2377 | 2b | 32 | - | - | 341 | 2.3 | 4.0 | 28 | 0.0 | 4.7 |
| Rally | 97 | 2604 | 2b | 38 | - | - | 380 | 2.0 | 4.0 | 13 | 0.0 | 0.7 |
| Topaz R | 84 | 1716 | 3 | 32 | - | - | 365 | 2.3 | 4.0 | 27 | 0.0 | 0.0 |
| Windbreaker | 91 | 2668 | 2b | 33 | - | - | 372 | 2.0 | 4.0 | 10 | 0.0 | 1.0 |
| 0800 | 93 | 2799 | 2a | 35 | - | - | 359 | 2.7 | 4.0 | 13 | 0.0 | 5.0 |
| 0813 | 93 | 2065 | 2b | 34 | - | - | 380 | 2.3 | 3.7 | 12 | 0.0 | 6.7 |
| | Mean | 2415 | | | | | | | | | | |
| | CV% | 7.5 | | | | | | | | | | |
| | LSD | 344 | | | | | | | | | | |
| PINK | | | | | | | | | | | | |
| CDC Rosalee | 97 | 2218 | 2b | 32 | - | - | 267 | 2.0 | 4.0 | 30 | 0.0 | 5.0 |
| Early Rose | 83 | 2422 | 2a | 27 | - | - | 313 | 2.7 | 4.0 | 30 | 0.0 | 0.0 |
| Pink Floyd | 97 | 2732 | 3 | 30 | - | - | 319 | 2.3 | 4.0 | 37 | 0.0 | 0.0 |
| ROG312 | 97 | 2337 | 3 | 28 | - | - | 316 | 2.0 | 4.0 | 23 | 0.0 | 4.0 |
| ROG922 | 97 | 2387 | 2b | 38 | - | - | 355 | 2.0 | 4.0 | 17 | 0.0 | 6.7 |
| | Mean | 2419 | | | | | | | | | | |
| | CV% | 12.0 | | | | | | | | | | |
| | LSD | 619 | | | | | | | | | | |

2006 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

Morden

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------------|------------------|---------------|----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| YELLOW | | | | | | | | | | | | |
| Arikara Yellow | 84 | 913 | 1 | 40 | 1.0 | 95 | 263 | 3.0 | 3.7 | 17 | 0.0 | 0.0 |
| Peruano Higuera | 105 | 199 | 1 | 38 | 1.0 | 80 | 305 | 2.7 | 5.0 | 47 | 0.0 | 0.0 |
| | Mean | 556 | | | | | | | | | | |
| | CV% | 2.1 | | | | | | | | | | |
| | LSD | 147 | | | | | | | | | | |
| LIGHT KIDNEY | | | | | | | | | | | | |
| Foxfire | 85 | 995 | 1 | 40 | 1.0 | 85 | 334 | 2.7 | 4.0 | 27 | 0.0 | 0.0 |
| Pink Panther | 89 | 1278 | 1 | 43 | 1.0 | 85 | 363 | 2.7 | 4.0 | 27 | 0.0 | 0.0 |
| ROG773 | 85 | 1094 | 1 | 48 | 1.3 | 87 | 401 | 2.3 | 4.0 | 33 | 0.0 | 0.0 |
| | Mean | 1122 | | | | | | | | | | |
| | CV% | 12.8 | | | | | | | | | | |
| | LSD | 355 | | | | | | | | | | |
| DARK KIDNEY | | | | | | | | | | | | |
| Redhawk | 97 | 758 | 1 | 45 | 1.7 | 78 | 347 | 2.7 | 4.0 | 30 | 0.0 | 0.0 |
| ROG802 | 93 | 1139 | 1 | 48 | 1.0 | 83 | 330 | 2.3 | 4.0 | 32 | 0.0 | 0.0 |
| ROG847 | 85 | 1049 | 1 | 38 | 1.7 | 80 | 368 | 2.7 | 4.0 | 27 | 0.0 | 0.0 |
| 721 | 99 | 753 | 1 | 50 | 1.7 | 88 | 342 | 2.7 | 4.0 | 22 | 0.0 | 0.0 |
| | Mean | 925 | | | | | | | | | | |
| | CV% | 16.3 | | | | | | | | | | |
| | LSD | 352 | | | | | | | | | | |

Winkler

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------------|------------------|---------------|----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| YELLOW | | | | | | | | | | | | |
| Arikara Yellow | 98 | 2234 | 1 | 48 | 2.0 | 62 | 353 | 2.3 | 4.0 | 40 | 0.0 | 1.7 |
| Peruano Higuera | 111 | 106 | 1 | 37 | 1.7 | 62 | 361 | 3.7 | 4.7 | 30 | 0.0 | 1.7 |
| | Mean | 1170 | | | | | | | | | | |
| | CV% | 15.6 | | | | | | | | | | |
| | LSD | 1198 | | | | | | | | | | |
| LIGHT KIDNEY | | | | | | | | | | | | |
| Foxfire | 98 | 2507 | 1 | 57 | 2.0 | 65 | 461 | 2.0 | 4.0 | 40 | 0.0 | 2.0 |
| Pink Panther | 102 | 2372 | 1 | 50 | 1.7 | 60 | 532 | 3.0 | 4.0 | 33 | 0.0 | 1.7 |
| ROG773 | 96 | 1514 | 1 | 48 | 2.7 | 60 | 503 | 2.7 | 5.0 | 60 | 0.0 | 0.0 |
| | Mean | 2131 | | | | | | | | | | |
| | CV% | 15.8 | | | | | | | | | | |
| | LSD | 1077 | | | | | | | | | | |
| DARK KIDNEY | | | | | | | | | | | | |
| Redhawk | 98 | 1617 | 1 | 57 | 3.0 | 58 | 428 | 2.0 | 4.7 | 53 | 0.0 | 0.7 |
| ROG802 | 103 | 1959 | 1 | 63 | 2.3 | 63 | 455 | 1.7 | 4.0 | 37 | 0.0 | 5.0 |
| ROG847 | 95 | 1488 | 1 | 45 | 2.0 | 58 | 461 | 2.0 | 5.0 | 60 | 0.0 | 0.0 |
| 721 | 97 | 1443 | 1 | 55 | 2.7 | 57 | 405 | 2.3 | 4.7 | 53 | 0.0 | 0.0 |
| | Mean | 1627 | | | | | | | | | | |
| | CV% | 15.1 | | | | | | | | | | |
| | LSD | 554 | | | | | | | | | | |

Carman

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------------|------------------|---------------|----------|-----------|------------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| YELLOW | | | | | | | | | | | | |
| Arikara Yellow | 87 | 1408 | 1 | 33 | 1.0 | 85 | 334 | 4.0 | 4.0 | 33 | 0.0 | 0.0 |
| Peruano Higuera | 105 | 183 | 1 | 38 | 1.0 | 80 | 322 | 4.0 | 5.0 | 60 | 0.0 | 0.0 |
| | Mean | 796 | | | | | | | | | | |
| | CV% | 16.9 | | | | | | | | | | |
| | LSD | 536 | | | | | | | | | | |
| LIGHT KIDNEY | | | | | | | | | | | | |
| Foxfire | 87 | 1485 | 1 | 40 | 1.3 | 83 | 407 | 3.3 | 4.0 | 37 | 0.0 | 0.0 |
| Pink Panther | 92 | 1916 | 1 | 45 | 2.0 | 83 | 455 | 3.7 | 4.0 | 40 | 1.0 | 0.7 |
| R0G773 | 88 | 999 | 1 | 48 | 1.3 | 75 | 463 | 4.0 | 5.0 | 53 | 0.0 | 0.0 |
| | Mean | 1466 | | | | | | | | | | |
| | CV% | 13.1 | | | | | | | | | | |
| | LSD | 495 | | | | | | | | | | |
| DARK KIDNEY | | | | | | | | | | | | |
| Redhawk | 93 | 1351 | 1 | 50 | 2.0 | 73 | 418 | 3.3 | 4.0 | 43 | 0.0 | 0.0 |
| ROG802 | 92 | 1778 | 1 | 50 | 1.3 | 82 | 423 | 2.3 | 4.0 | 40 | 0.0 | 0.0 |
| ROG847 | 89 | 1114 | 1 | 35 | 1.3 | 73 | 434 | 3.0 | 4.7 | 57 | 0.0 | 0.0 |
| 721 | 90 | 1170 | 1 | 48 | 2.3 | 77 | 382 | 2.0 | 4.0 | 43 | 0.0 | 0.0 |
| | Mean | 1353 | | | | | | | | | | |
| | CV% | 10.9 | | | | | | | | | | |
| | LSD | 334 | | | | | | | | | | |

Portage

| Entry | Days to Maturity | Yield lb/acre | Type 1-3 | Ht cm | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Qual 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------------|------------------|---------------|----------|-----------|---------|-----------------|------------|------------|---------------|-------------|--------------|------------|
| YELLOW | | | | | | | | | | | | |
| Arikara Yellow | 99 | 2255 | 1 | 47 | - | - | 366 | 2.0 | 4.0 | 40 | 0.0 | 0.7 |
| Peruano Higuera | 99 | 781 | 1 | 40 | - | - | 313 | 2.3 | 5.0 | 67 | 0.0 | 1.7 |
| | Mean | 1518 | | | | | | | | | | |
| | CV% | 6.4 | | | | | | | | | | |
| | LSD | 385 | | | | | | | | | | |
| LIGHT KIDNEY | | | | | | | | | | | | |
| Foxfire | 99 | 2166 | 1 | 48 | - | - | 464 | 2.0 | 4.0 | 37 | 0.0 | 0.7 |
| Pink Panther | 99 | 2401 | 1 | 42 | - | - | 519 | 2.0 | 4.0 | 32 | 0.0 | 2.0 |
| R0G773 | 99 | 2096 | 1 | 40 | - | - | 529 | 2.7 | 4.3 | 40 | 0.0 | 0.0 |
| | Mean | 2221 | | | | | | | | | | |
| | CV% | 4.5 | | | | | | | | | | |
| | LSD | 260 | | | | | | | | | | |
| DARK KIDNEY | | | | | | | | | | | | |
| Redhawk | 99 | 1866 | 1 | 45 | - | - | 434 | 2.0 | 4.0 | 33 | 0.0 | 1.7 |
| ROG802 | 99 | 2051 | 1 | 45 | - | - | 419 | 2.0 | 4.0 | 40 | 0.0 | 0.0 |
| ROG847 | 99 | 1963 | 1 | 42 | - | - | 476 | 2.0 | 4.3 | 40 | 0.0 | 5.0 |
| 721 | 99 | 2275 | 1 | 40 | - | - | 429 | 2.0 | 4.3 | 28 | 0.0 | 0.0 |
| | Mean | 2039 | | | | | | | | | | |
| | CV% | 6.2 | | | | | | | | | | |
| | LSD | 287 | | | | | | | | | | |

SUMMARY – 2006 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

| | Yield (lb/acre) | | | Days to Maturity | | | Pod Height > 5 cm | | | % Rust | | | % White Mould | | | % Anthracnose | |
|----------------|-----------------|-------------|-------------|------------------|------------|------------|-------------------|-----------|-----------|----------|----------|----------|---------------|----------|----------|---------------|----------|
| | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 |
| NAVY | | | | | | | | | | | | | | | | | |
| AC Cruiser | 2711 | 2184 | 2423 | 96 | 109 | 105 | 85 | 88 | 87 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 4 |
| AC Mast | 2447 | 2589 | 2676 | 96 | 109 | 105 | 79 | 83 | 83 | 0 | 0 | 0 | 3 | 1 | 1 | 3 | 5 |
| Cargo | 2686 | 2775 | 2544 | 95 | 106 | 101 | 80 | 84 | 83 | 0 | 0 | 0 | 7 | 8 | 9 | 0 | 0 |
| Cirrus | 2706 | 2894 | 2828 | 94 | 105 | 101 | 71 | 77 | 78 | 0 | 0 | 0 | 5 | 4 | 5 | 1 | 5 |
| Envoy | 2400 | 2459 | 2401 | 96 | 101 | 98 | 81 | 88 | 86 | 0 | 0 | 0 | 9 | 4 | 5 | 0 | 0 |
| Galley | 2551 | 2596 | – | 96 | – | – | 83 | 86 | – | 0 | 0 | – | 8 | 7 | – | 0 | 7 |
| GTS 546 | 2534 | – | – | 93 | – | – | 83 | – | – | 0 | – | – | 8 | – | – | 0 | – |
| HR 164 | 2838 | – | – | 98 | – | – | 91 | – | – | 0 | – | – | 3 | – | – | 0 | – |
| Kippen | 2782 | 2483 | 2890 | 92 | 102 | 99 | 88 | 90 | 89 | 0 | 0 | 0 | 2 | 12 | 10 | 0 | 5 |
| Morden003 | 2550 | 2724 | 2371 | 92 | 98 | 95 | 85 | 85 | 85 | 0 | 0 | 0 | 5 | 2 | 3 | 0 | 0 |
| NA 00076 | 2373 | – | – | 97 | – | – | 88 | – | – | 0 | – | – | 6 | – | – | 0 | – |
| NA 01054 | 2620 | – | – | 97 | – | – | 90 | – | – | 0 | – | – | 9 | – | – | 0 | – |
| NA 99081 | 2633 | 2632 | – | 98 | 108 | – | 88 | 89 | – | 0 | 0 | – | 4 | 2 | – | 0 | 7 |
| Norstar | 2469 | 2594 | – | 95 | 102 | – | 69 | 80 | – | 0 | 0 | – | 5 | 3 | – | 1 | 6 |
| OAC 05-1 | 2361 | – | – | 87 | – | – | 76 | – | – | 0 | – | – | 9 | – | – | 2 | – |
| ROG417 | 2157 | 2398 | – | 89 | 99 | – | 90 | 89 | – | 0 | 0 | – | 9 | 6 | – | 1 | 12 |
| T9903 | 2518 | 2600 | 2718 | 95 | 102 | 99 | 84 | 84 | 84 | 0 | 0 | 0 | 6 | 7 | 8 | 0 | 0 |
| 811 | 2563 | 2707 | – | 95 | 107 | – | 89 | 87 | – | 0 | 0 | – | 6 | 9 | – | 0 | 9 |
| 862 | 2255 | – | – | 97 | – | – | 86 | – | – | 0 | – | – | 6 | – | – | 0 | – |
| BLACK | | | | | | | | | | | | | | | | | |
| AC Harblack | 2815 | 3058 | 2960 | 96 | 109 | 104 | 83 | 81 | 83 | 0 | 0 | 0 | 11 | 15 | 11 | 0 | 9 |
| BL 00044 | 2385 | 2618 | – | 99 | 110 | – | 88 | 86 | – | 0 | 0 | – | 3 | 4 | – | 0 | 0 |
| Black Velvet | 2499 | – | – | 99 | – | – | 89 | – | – | 0 | – | – | 5 | – | – | 0 | – |
| Black Violet | 2457 | 2623 | 2688 | 95 | 109 | 105 | 87 | 89 | 89 | 0 | 0 | 0 | 9 | 17 | 12 | 0 | 1 |
| CDC Jet | 2490 | 2788 | 2650 | 95 | 104 | 101 | 88 | 88 | 89 | 0 | 0 | 0 | 6 | 6 | 5 | 0 | 0 |
| Eclipse | 2494 | 2913 | – | 95 | 104 | – | 89 | 91 | – | 0 | 0 | – | 9 | 12 | – | 0 | 1 |
| Harohawk | 2257 | 2891 | – | 96 | 108 | – | 81 | 91 | – | 0 | 0 | – | 10 | 12 | – | 0 | 5 |
| UI 911 | 1942 | – | – | 91 | – | – | 80 | – | – | 0 | – | – | 10 | – | – | 0 | – |
| 316-13 | 2302 | 2591 | – | 93 | 99 | – | 86 | 85 | – | 0 | 0 | – | 6 | 13 | – | 0 | 0 |
| 866 | 2346 | – | – | 96 | – | – | 90 | – | – | 0 | – | – | 8 | – | – | 0 | – |

SUMMARY – 2006 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

| | Yield (lb/acre) | | | Days to Maturity | | | Pod Height > 5 cm | | | % Rust | | | % White Mould | | | % Anthracnose | |
|--------------------|-----------------|-------------|-------------|------------------|------------|------------|-------------------|-----------|-----------|----------|----------|----------|---------------|----------|----------|---------------|-----------|
| | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 |
| PINTO | | | | | | | | | | | | | | | | | |
| AC Ole | 2045 | 2738 | – | 93 | 99 | – | 71 | 87 | – | 0 | 0 | – | 5 | 4 | – | 0 | 15 |
| AC Pintoba | 2061 | 2912 | 2981 | 97 | 104 | 101 | 70 | 91 | 75 | 0 | 1 | 2 | 4 | 3 | 4 | 0 | 15 |
| Agrinto | 1914 | – | – | 89 | – | – | 88 | – | – | 0 | – | – | 6 | – | – | 0 | – |
| Buster | 2213 | – | – | 95 | – | – | 66 | – | – | 0 | – | – | 5 | – | – | 0 | – |
| La Paz (PT 99236) | 2067 | 3078 | – | 95 | 103 | – | 84 | 94 | – | 0 | 0 | – | 7 | 10 | – | 1 | 11 |
| Maverick | 2055 | 3095 | – | 92 | 100 | – | 69 | 85 | – | 0 | 0 | – | 8 | 10 | – | 1 | 5 |
| Pecos | 1785 | – | – | 92 | – | – | 77 | – | – | 0 | – | – | 2 | – | – | 0 | – |
| Pinata | 1745 | – | – | 87 | – | – | 57 | – | – | 0 | – | – | 9 | – | – | 1 | – |
| PT 99195MR | 2068 | 3031 | – | 95 | 104 | – | 75 | 93 | – | 0 | 0 | – | 11 | 20 | – | 1 | 1 |
| PT 99204 | 2042 | – | – | 91 | – | – | 76 | – | – | 0 | – | – | 9 | – | – | 1 | – |
| PT 99230 | 2128 | – | – | 92 | – | – | 75 | – | – | 0 | – | – | 7 | – | – | 1 | – |
| Rally | 2251 | 2894 | 2966 | 93 | 100 | 98 | 72 | 88 | 76 | 0 | 1 | – | 7 | 9 | 7 | 0 | 1 |
| Topaz R | 1610 | 2429 | – | 85 | 92 | – | 72 | 76 | – | 0 | 0 | – | 2 | 1 | – | 0 | 1 |
| Windbreaker (0645) | 2263 | 3112 | 3101 | 92 | 102 | 101 | 68 | 89 | 73 | 0 | 0 | 0 | 8 | 8 | 6 | 0 | 12 |
| 0800 | 1886 | – | – | 91 | – | – | 77 | – | – | 0 | – | – | 8 | – | – | 1 | – |
| 0813 | 1979 | 2710 | – | 89 | 96 | – | 77 | 85 | – | 0 | 0 | – | 8 | 5 | – | 2 | 10 |
| PINK | | | | | | | | | | | | | | | | | |
| CDC Rosalee | 1816 | 2437 | – | 89 | 98 | – | 74 | 84 | – | 0 | 0 | – | 3 | 3 | – | 1 | 14 |
| Early Rose | 2089 | 2401 | 2416 | 81 | 89 | 88 | 73 | 80 | 75 | 0 | 0 | 1 | 3 | 3 | 5 | 0 | 2 |
| Pink Floyd | 2325 | 3033 | – | 93 | 101 | – | 60 | 84 | – | 0 | 0 | – | 4 | 7 | – | 0 | 7 |
| ROG312 | 2064 | 2857 | 2762 | 93 | 100 | 97 | 60 | 85 | 67 | 0 | 0 | 1 | 5 | 4 | 5 | 1 | 7 |
| ROG922 | 2062 | – | – | 94 | – | – | – | – | – | 0 | – | – | 5 | – | – | 2 | – |

SUMMARY – 2006 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

| | Yield (lb/acre) | | | Days to Maturity | | | Pod Height > 5 cm | | | % Rust | | | % White Mould | | | % Anthracnose | |
|-----------------------|-----------------|-------------|-------------|------------------|------------|------------|-------------------|-----------|-----------|----------|----------|----------|---------------|----------|----------|---------------|----------|
| | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 | 06/05/03 | 2006 | 06/05 |
| YELLOW | | | | | | | | | | | | | | | | | |
| Arikara Yellow | 1702 | 2200 | – | 92 | 99 | – | 84 | 84 | – | 0 | 0 | – | 1 | 0 | – | 0 | 0 |
| Peruano Higuera | 318 | – | – | 105 | – | – | 76 | – | – | 0 | – | – | 1 | – | – | 0 | – |
| LIGHT KIDNEY | | | | | | | | | | | | | | | | | |
| Foxfire | 1788 | 1962 | 2162 | 92 | 97 | 660 | 78 | 83 | 85 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 |
| Pink Panther | 1992 | 2071 | 2226 | 96 | 102 | 732 | 76 | 80 | 85 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| ROG773 | 1426 | 1594 | – | 92 | – | – | 74 | 76 | – | 0 | 0 | – | 0 | 0 | – | 0 | 0 |
| DARK KIDNEY | | | | | | | | | | | | | | | | | |
| Redhawk | 1398 | 1255 | 1287 | 97 | 102 | 534 | 70 | 74 | 81 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| ROG802 | 1732 | 1615 | 1776 | 97 | 102 | 645 | 76 | 80 | 85 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| ROG847 | 1404 | 1029 | – | 92 | 101 | 0 | 70 | 68 | 0 | 0 | 0 | – | 1 | 0 | – | 0 | 0 |
| 721 | 1410 | – | – | 96 | – | – | 74 | 0 | 0 | 0 | – | – | 0 | – | – | 0 | 0 |

PEAS

| VARIETY | Long Term ¹ Average Yield % CDC Mozart | | 2006 Average Yield | #Sites in 2006** | 2006 Yield by Test Location % CDC Mozart ² | | | | | | Resistance to ³ | | | | | |
|---|---|-------------|--------------------|------------------|--|------------|------------|------------|------------|------------|----------------------------|----------|------------|--------------------|---------------------------------|------------------------|
| | | | | | Arborg | Boissevain | Dauphin | Hamiota | Morden | Thornhill | Powdery Mildew | Lodging | Bleaching | Seed Coat Breakage | Seed coat Dimpling ⁴ | Seed Size ⁵ |
| Yellow | | | | | | | | | | | | | | | | |
| Alfetta | 93 | (19) * | 92 | 6 | 85 | 99 | 97 | 92 | 79 | 103 | P | F | n/a | F | F | VL |
| Canstar | 101 | (6) | 101 | 6 | 100 | 103 | 99 | 92 | 107 | 107 | VG | G | n/a | G | n/a | M |
| CDC Meadow | 103 | (17) | 99 | 7 | 96 | 96 | 92 | 103 | 99 | 109 | VG | G | n/a | G | G | M |
| CDC Mozart | 100 | (36) | 100 | 7 | 100 | 100 | 100 | 100 | 100 | 100 | VG | F | n/a | G | G | M |
| Cutlass | 93 | (17) | 92 | 7 | 91 | 96 | 98 | 90 | 87 | 94 | VG | G | n/a | F | F | M |
| Eclipse | 103 | (31) | 99 | 7 | 105 | 109 | 96 | 93 | 95 | 105 | VG | G | n/a | G | F | L |
| FUSION | 97 | (6) | 97 | 6 | 93 | 97 | 102 | 93 | 97 | 98 | VG | G | n/a | F | n/a | L |
| Polstead | 101 | (6) | 101 | 6 | 111 | 98 | 99 | 93 | 99 | 105 | VG | G | n/a | F | n/a | L |
| Reward | 96 | (6) | 96 | 6 | 98 | 82 | 98 | 89 | 104 | 103 | VG | G | n/a | G | n/a | L |
| SW Benefit | 79 | (6) | 79 | 6 | 90 | 59 | 82 | 70 | 81 | 89 | VG | F | n/a | F | n/a | M |
| SW Carousel | 95 | (16) | 88 | 6 | 88 | 81 | 86 | 86 | 87 | 103 | VG | G | n/a | F | G | L |
| SW Cartier | 93 | (6) | 93 | 6 | 94 | 98 | 90 | 95 | 87 | 97 | VG | F | n/a | F | n/a | M |
| SW Marquee | 87 | (10) | 88 | 6 | 75 | 97 | 88 | 86 | 93 | 92 | VG | G | n/a | G | G | M |
| SW MIDAS | 95 | (19) | 97 | 7 | 98 | 95 | 93 | 96 | 98 | 108 | VG | G | n/a | G | G | M |
| Tudor | 94 | (16) | 94 | 6 | 94 | 85 | 97 | 86 | 99 | 103 | VG | G | n/a | F | G | L |
| Varieties that are being tested or proposed for registration | | | | | | | | | | | | | | | | |
| CDC 728-8 | 104 | (11) | 103 | 7 | 102 | 102 | 106 | 102 | 98 | 110 | VG | F | n/a | G | n/a | L |
| Green | | | | | | | | | | | | | | | | |
| BLUEBIRD | 89 | (10) | 93 | 6 | 91 | 96 | 95 | 88 | 84 | 105 | VG | F | n/a | n/a | n/a | M |
| Camry | 95 | (16) | 95 | 6 | 100 | 84 | 97 | 85 | 95 | 112 | VG | G | F | F | G | L |
| CDC Sage | 79 | (16) | 74 | 6 | 73 | 68 | 73 | 70 | 82 | 83 | VG | G | G | G | F | M |
| CDC Striker | 89 | (17) | 83 | 7 | 87 | 85 | 73 | 90 | 88 | 83 | P | G | G | VG | G | M |
| COOPER | 99 | (16) | 97 | 6 | 96 | 94 | 95 | 94 | 99 | 104 | VG | G | G | F | G | L |
| SW Sergeant | 86 | (6) | 86 | 6 | 82 | 84 | 85 | 89 | 87 | 89 | VG | G | G | G | F | S |
| TAMORA | 90 | (6) | 90 | 6 | 81 | 83 | 94 | 90 | 93 | 99 | VG | G | F | F | n/a | L |
| Other Pea Types | | | | | | | | | | | | | | | | |
| CDC 617-20 (Maple) | 84 | (6) | 84 | 6 | 78 | 79 | 84 | 83 | 87 | 95 | VG | F | n/a | n/a | G | M |
| CDC Dundurn (Dun) | 68 | (10) | 71 | 6 | 69 | 76 | 66 | 71 | 64 | 83 | n/a | n/a | n/a | n/a | n/a | n/a |
| CDC 1096-8 (Silage) | 88 | (6) | 88 | 6 | 80 | 96 | 75 | 81 | 106 | 102 | n/a | n/a | n/a | n/a | n/a | n/a |
| Yield – CDC Mozart (bu/acre) | | | 76 | | | 80 | 60 | 88 | 82 | 68 | 58 | | | | | |
| CV%*** | | | | | | 9.0 | 11.3 | 7.6 | 6.8 | 12.8 | 7.8 | | | | | |
| LSD%**** | | | | | | 15 | 19 | 11 | 11 | 21 | 13 | | | | | |

¹ CDC Mozart average yield 70 bu/acre (4724 kg/ha) over 36 site years.

² Long Term Average Yield is the best indicator of variety performance. Use single year site data with caution.

³ Rating P=poor, F=fair, G=good, VG= very good, n/a is not available.

⁴ Seed coat dimpling rating: VG = 0-5%; G = 6-20%; F = 21-50%

⁵ Rating S=small, M=medium, L=large; seed size from the same variety can vary greatly from year to year.

* Number in brackets is the actual number of site years in direct comparison to the check CDC Mozart. The more site years the more dependable the data.

** Some varieties were tested at 7 sites, data from the 7th site (CROP from Portage la Prairie) is not reported individually, but is included in the 2006 and long term average.

*** CV = Coefficient of Variation. A measure of random variation in a trial. A small CV is desirable.

****LSD = Least Significant Difference. Varieties must differ by this percentage to be considered significantly different.

2006 NARROW ROW VALLEY SCREENING TRIAL

Morden

| | Days to Maturity | Yield lb/acre | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Seed Quality 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------|------------------|---------------|----------|-----------------|------------|------------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | |
| AC Cruiser | 95 | 1482 | 1 | 92 | 158 | 3 | 2 | 2 | 0.0 | 0.0 |
| Envoy | 92 | 981 | 1 | 90 | 165 | 2 | 2 | 8 | 0.0 | 0.0 |
| Galley (HR 110) | 97 | 1038 | 2 | 90 | 196 | 3 | 2 | 2 | 0.0 | 0.0 |
| Kippen (HR 100) | 88 | 1151 | 1 | 82 | 142 | 3 | 3 | 10 | 0.0 | 0.0 |
| Morden003 | 87 | 949 | 1 | 88 | 160 | 3 | 2 | 2 | 0.0 | 0.0 |
| Mean | | 1120 | | | | | | | | |
| CV% | | 15.2 | | | | | | | | |
| LSD | | 370 | | | | | | | | |

BLACK

| | | | | | | | | | | |
|--------------------|-----------|-------------|----------|-----------|------------|----------|----------|----------|------------|------------|
| AC Harblack | 101 | 1017 | 3 | 87 | 185 | 3 | 2 | 2 | 0.0 | 0.0 |
| Black Violet | 98 | 1335 | 1 | 95 | 183 | 3 | 2 | 1 | 0.0 | 0.0 |
| CDC Jet | 92 | 1124 | 1 | 93 | 197 | 3 | 1 | 1 | 0.0 | 0.0 |
| Eclipse | 93 | 1401 | 1 | 93 | 184 | 2 | 2 | 5 | 0.0 | 0.0 |
| Harohawk (HR 123) | 97 | 1091 | 1 | 87 | 186 | 3 | 2 | 4 | 0.0 | 0.0 |
| Mean | | 1194 | | | | | | | | |
| CV% | | 10.3 | | | | | | | | |
| LSD | | 264 | | | | | | | | |

PINTO

| | | | | | | | | | | |
|-------------------|------------|------------|----------|-----------|------------|----------|----------|----------|------------|------------|
| AC Ole | 94 | 892 | 3 | 88 | 364 | 3 | 2 | 4 | 0.0 | 0.0 |
| AC Pintoba | 102 | 721 | 4 | 87 | 395 | 3 | 2 | 4 | 0.0 | 0.0 |
| CDC Pintium | 79 | 1230 | 1 | 88 | 288 | 4 | 2 | 2 | 0.3 | 0.0 |
| Maverick | 91 | 1205 | 3 | 83 | 351 | 2 | 2 | 4 | 0.0 | 0.0 |
| Pecos | 87 | 1204 | 1 | 83 | 294 | 4 | 2 | 2 | 0.0 | 0.0 |
| Pinata | 82 | 1016 | 2 | 75 | 337 | 3 | 2 | 4 | 0.0 | 0.0 |
| Mean | | 1109 | | | | | | | | |
| CV% | | 11.5 | | | | | | | | |
| LSD | | 249 | | | | | | | | |

Winkler

| | Days to Maturity | Yield lb/acre | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Seed Quality 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|-----------------|------------------|---------------|----------|-----------------|------------|------------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | |
| AC Cruiser | 103 | 3434 | 3 | 87 | 181 | 3 | 4 | 8 | 0.0 | 4.4 |
| Envoy | 101 | 3224 | 3 | 85 | 183 | 2 | 2 | 4 | 0.1 | 5.7 |
| Galley (HR 110) | 101 | 3147 | 3 | 85 | 184 | 4 | 3 | 22 | 3.4 | 7.7 |
| Kippen (HR 100) | 99 | 3220 | 3 | 90 | 165 | 3 | 2 | 10 | 0.0 | 20.0 |
| Morden003 | 97 | 3202 | 3 | 88 | 164 | 2 | 2 | 10 | 0.1 | 30.0 |
| Mean | | 3245 | | | | | | | | |
| CV% | | 9.2 | | | | | | | | |
| LSD | | 641 | | | | | | | | |

BLACK

| | | | | | | | | | | |
|--------------------|------------|-------------|----------|-----------|------------|----------|----------|-----------|------------|------------|
| AC Harblack | 104 | 2963 | 3 | 85 | 173 | 3 | 3 | 13 | 0.7 | 17.0 |
| Black Violet | 100 | 2182 | 3 | 85 | 184 | 2 | 3 | 11 | 1.7 | 22.0 |
| CDC Jet | 101 | 3116 | 2 | 90 | 189 | 2 | 3 | 15 | 0.1 | 4.3 |
| Eclipse | 101 | 3280 | 2 | 90 | 169 | 2 | 3 | 18 | 0.0 | 22.0 |
| Harohawk (HR 123) | 102 | 2840 | 2 | 88 | 174 | 2 | 3 | 7 | 0.1 | 8.4 |
| Mean | | 2876 | | | | | | | | |
| CV% | | 15.0 | | | | | | | | |
| LSD | | 924 | | | | | | | | |

PINTO

| | | | | | | | | | | |
|-------------------|------------|-------------|----------|-----------|------------|----------|----------|----------|------------|------------|
| AC Ole | 99 | 3126 | 4 | 85 | 340 | 3 | 3 | 4 | 0.0 | 28.0 |
| AC Pintoba | 102 | 3327 | 4 | 83 | 340 | 3 | 2 | 5 | 0.4 | 8.3 |
| CDC Pintium | 86 | 2403 | 2 | 90 | 333 | 4 | 2 | 8 | 0.1 | 18.0 |
| Maverick | 100 | 3252 | 4 | 83 | 349 | 3 | 2 | 4 | 0.7 | 22.0 |
| Pecos | 95 | 1996 | 3 | 88 | 308 | 3 | 2 | 8 | 0.0 | 30.0 |
| Pinata | 92 | 2372 | 5 | 73 | 357 | 3 | 2 | 6 | 0.0 | 28.0 |
| Mean | | 2746 | | | | | | | | |
| CV% | | 11.6 | | | | | | | | |
| LSD | | 660 | | | | | | | | |

Carman

| | Days to Maturity | Yield lb/acre | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Seed Quality 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|--------------------|------------------|---------------|----------|-----------------|------------|------------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | |
| AC Cruiser | 86 | 2896 | 1 | 87 | 191 | 2 | 3 | 20 | 0.0 | 0.0 |
| Envoy | 77 | 2300 | 1 | 95 | 159 | 2 | 3 | 30 | 0.7 | 3.4 |
| Galley (HR 110) | 85 | 2492 | 1 | 83 | 188 | 3 | 4 | 43 | 0.0 | 0.1 |
| Kippen (HR 100) | 84 | 2857 | 1 | 83 | 165 | 3 | 2 | 13 | 0.0 | 0.0 |
| Morden003 | 78 | 2827 | 1 | 93 | 170 | 2 | 3 | 25 | 0.0 | 0.0 |
| Mean | | 2674 | | | | | | | | |
| CV% | | 11.3 | | | | | | | | |
| LSD | | 637 | | | | | | | | |
| BLACK | | | | | | | | | | |
| AC Harblack | 86 | 2269 | 1 | 87 | 169 | 2 | 3 | 28 | 0.0 | 3.3 |
| Black Violet | 84 | 2152 | 1 | 87 | 178 | 3 | 3 | 27 | 0.0 | 5.0 |
| CDC Jet | 83 | 2370 | 1 | 90 | 187 | 2 | 3 | 30 | 0.0 | 3.4 |
| Eclipse | 86 | 2550 | 1 | 92 | 172 | 2 | 3 | 38 | 0.4 | 0.1 |
| Harohawk (HR 123) | 85 | 2417 | 1 | 90 | 180 | 2 | 2 | 20 | 0.0 | 0.0 |
| Mean | | 2352 | | | | | | | | |
| CV% | | 13.4 | | | | | | | | |
| LSD | | 675 | | | | | | | | |
| PINTO | | | | | | | | | | |
| AC Ole | 83 | 2016 | 3 | 88 | 351 | 3 | 2 | 22 | 0.4 | 0.0 |
| AC Pintoba | 85 | 2815 | 3 | 90 | 357 | 3 | 3 | 25 | 0.0 | 0.0 |
| CDC Pintium | 76 | 2099 | 1 | 92 | 325 | 3 | 3 | 17 | 0.1 | 0.3 |
| Maverick | 82 | 2307 | 3 | 87 | 330 | 2 | 3 | 23 | 0.0 | 3.7 |
| Pecos | 82 | 2239 | 1 | 78 | 290 | 3 | 3 | 18 | 0.0 | 0.7 |
| Pinata | 77 | 1401 | 2 | 77 | 347 | 3 | 3 | 20 | 0.0 | 1.7 |
| Mean | | 2012 | | | | | | | | |
| CV% | | 8.6 | | | | | | | | |
| LSD | | 381 | | | | | | | | |

Portage

| | Days to Maturity | Yield lb/acre | Ldg 1-5 | Pod Ht % > 5 cm | TKW (g) | Seed Quality 1-5 | CBB Sever 0-5 | CBB Incid % | Anth Incid % | WM Incid % |
|--------------------|------------------|---------------|----------|-----------------|------------|------------------|---------------|-------------|--------------|------------|
| NAVY | | | | | | | | | | |
| AC Cruiser | 97 | 2633 | - | - | 185 | 3 | 4 | 8 | 5.7 | 0.0 |
| Envoy | 99 | 2787 | - | - | 196 | 2 | 4 | 28 | 3.3 | 0.0 |
| Galley (HR 110) | 97 | 2907 | - | - | 200 | 2 | 4 | 13 | 3.7 | 0.0 |
| Kippen (HR 100) | 94 | 3010 | - | - | 172 | 2 | 4 | 18 | 6.7 | 0.0 |
| Morden003 | 98 | 2290 | - | - | 184 | 3 | 4 | 23 | 4.0 | 0.0 |
| Mean | | 2725 | | | | | | | | |
| CV% | | 10.7 | | | | | | | | |
| LSD | | 624 | | | | | | | | |
| BLACK | | | | | | | | | | |
| AC Harblack | 98 | 2835 | - | - | 186 | 2 | 4 | 12 | 6.7 | 0.0 |
| Black Violet | 98 | 3143 | - | - | 192 | 3 | 4 | 5 | 5.7 | 0.0 |
| CDC Jet | 95 | 2546 | - | - | 196 | 3 | 4 | 13 | 11.0 | 0.0 |
| Eclipse | 100 | 2840 | - | - | 196 | 2 | 4 | 13 | 5.0 | 0.0 |
| Harohawk (HR 123) | 98 | 2163 | - | - | 179 | 3 | 4 | 7 | 1.7 | 0.0 |
| Mean | | 2705 | | | | | | | | |
| CV% | | 16.5 | | | | | | | | |
| LSD | | 957 | | | | | | | | |
| PINTO | | | | | | | | | | |
| AC Ole | 96 | 3503 | - | - | 391 | 3 | 4 | 8 | 20.0 | 0.0 |
| AC Pintoba | 94 | 3126 | - | - | 364 | 3 | 4 | 18 | 6.7 | 0.0 |
| CDC Pintium | 84 | 2033 | - | - | 348 | 3 | 4 | 33 | 17.0 | 0.0 |
| Maverick | 93 | 3282 | - | - | 357 | 2 | 4 | 18 | 20.0 | 0.0 |
| Pecos | 98 | 2447 | - | - | 335 | 3 | 3 | 5 | 8.3 | 0.0 |
| Pinata | 91 | 2319 | - | - | 392 | 3 | 4 | 15 | 22.0 | 0.0 |
| Mean | | 2717 | | | | | | | | |
| CV% | | 15.2 | | | | | | | | |
| LSD | | 873 | | | | | | | | |

2006 WESTERN MANITOBA NARROW ROW EDIBLE BEAN TRIALS

Yield (lb/acre) by Individual Sites

| Type | Variety | Treherne | | Thornhill | | Arborg | |
|--------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 2006 | 2006/2003 | 2006 | 2006/2003 | 2006 | 2006/2003 |
| Navy | AC Cruiser | 2200 | 1938 | 2457 | 2277 | 1611 | 1533 |
| Navy | Cirrus | 2207 | 1753 | 2020 | 2059 | 1318 | 1404 |
| Navy | Envoy | 2110 | – | 1507 | 1542 | 1342 | 1583 |
| Navy | Kippen | 2016 | – | 2156 | – | 1304 | – |
| Navy | Morden003 | 1904 | 1794 | 1790 | 2206 | 1667 | 1680 |
| Navy | T9903 | 2206 | – | 2206 | – | 1414 | – |
| Black | AC Black Diamond | 1850 | – | 2655 | – | 1580 | – |
| Black | CDC Espresso | 1694 | 1562 | 1559 | 1409 | 1127 | 1206 |
| Black | CDC Jet | 1820 | 1655 | 2192 | 2066 | 1791 | 1796 |
| Black | 316-13 | 1986 | 1751 | 2257 | 2058 | 1728 | 1710 |
| SM Red | AC Redbond | 1899 | 1803 | 2379 | 2110 | 1456 | 1349 |
| Pinto | CDC Minto | 1958 | 1866 | 3007 | 2451 | 1584 | 1516 |
| Pinto | CDC Pintium | 1852 | 2070 | 2335 | 2418 | 1856 | 1964 |
| Pinto | Pecos | – | – | – | – | – | – |
| GNB | Maverick | 1853 | – | 2588 | – | 1852 | – |
| GNB | Resolute | 1787 | – | 2608 | – | 1761 | – |
| GNB | 1006S-1 | 1719 | – | 2357 | – | 1556 | – |

Long Term Yield Data – Western NR Trials 1999–2006

| | | | | | |
|------------------|------------|-------------|--------------------|------------|-------------|
| AC Cruiser | 120 | (12) | CDC Minto | 105 | (12) |
| Cirrus | 107 | (12) | CDC Pintium | 100 | (25) |
| Envoy | 100 | (25) | Pecos | 100 | (11) |
| Kippen | 112 | (11) | Maverick | 100 | (7) |
| Morden 003 | 110 | (7) | Resolute | 102 | (3) |
| T9903 | 115 | (4) | 1006S-1 | 93 | (3) |
| AC Black Diamond | 115 | (11) | | | |
| CDC Espresso | 94 | (25) | | | |
| CDC Jet | 109 | (15) | | | |
| 316-13 | 107 | (8) | | | |
| AC Redbond | 101 | (21) | | | |

Envoy yielded 1995 lb/acre with 25 site years

CDC Pintium yielded 2371 lb/acre with 25 site years

PLANT CHARACTERISTICS – AVERAGE OVER ALL LOCATIONS

| Type | Variety | Days to Maturity | | % pods > 5 cm above ground | | Lodging (1–5) | | 1000 Seed Wt grms (Treherne Site) | | White Mould % |
|--------------|--------------------|------------------|-----------|----------------------------|-----------|---------------|------------|-----------------------------------|------------|---------------|
| | | 2006 | 2006/2003 | 2006 | 2006/2003 | 2006 | 2006/2003 | 2006 | 2006/2003 | 2006 |
| Navy | Cirrus | 87 | 88 | 73 | 77 | 1.2 | 1.4 | 181 | 190 | 1.7 |
| Navy | Cruiser | 89 | 88 | 83 | 80 | 1.0 | 1.1 | 182 | 200 | 0.8 |
| Navy | Envoy | 89 | 89 | 81 | 82 | 1.7 | 1.8 | 184 | 196 | 0.8 |
| Navy | Kippen | 89 | – | 79 | – | 1.0 | – | 165 | 182 | 0.7 |
| Navy | Morden003 | 81 | 83 | 85 | 83 | 1.0 | 1.2 | 172 | – | 0.0 |
| Navy | T9903 | 89 | – | 81 | – | 1.2 | – | 220 | 221 | 3.8 |
| Black | AC Black Diamond | 86 | – | 87 | – | 1.5 | – | 257 | 293 | 0.0 |
| Black | CDC Espresso | 88 | 87 | 85 | 81 | 1.0 | 1.0 | 189 | 202 | 0.0 |
| Black | CDC Jet | 90 | 88 | 88 | 80 | 1.0 | 1.1 | 208 | 207 | 0.0 |
| Black | 316-13 | 85 | 86 | 82 | 82 | 1.5 | 1.3 | 196 | 212 | 0.8 |
| SM Red | AC Redbond | 87 | 87 | 84 | 78 | 1.7 | 1.4 | 274 | 320 | 0.5 |
| Pinto | CDC Minto | 83 | 85 | 82 | 76 | 2.5 | 2.2 | 406 | 454 | 1.2 |
| Pinto | CDC Pintium | 77 | 80 | 88 | 85 | 1.3 | 1.2 | 328 | 342 | 0.0 |
| Pinto | Maverick | 88 | – | 77 | – | 3.0 | – | 367 | – | 2.0 |
| GNB | Resolute | 84 | – | 85 | – | 2.0 | – | 331 | – | 1.7 |
| GNB | 1006S-1 | 87 | – | 60 | – | 4.0 | – | 357 | – | 1.2 |

ROUNDUP READY SOYBEANS

| Manitoba ¹ | | Relative Maturity ³ | | Rosebank ⁴ | | St. Adolphe* | | Portage* | | Arborg | | 1 Year Data Only ⁵ | | | IDC ⁶ | | |
|-----------------------|----------------------|--------------------------------|----------|-----------------------|------------|-----------------|------------|------------|------------|------------|------------|-------------------------------|------------|------------|------------------|------------|------------|
| Variety | Company ² | +/- days of 25-02R | | 2006– | | 2006– | | 2006– | | 2006– | | Homewood | Morris | Stonewall* | Score | | |
| Grouping | Heat Unit | Variety | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2006 | 2006 | (1–5) | |
| early season area | 2375 | Apollo RR | -7 | -10 | 91 | 89 | 84 | 88 | 71 | 71 | 96 | 96 | 99 | 86 | 80 | 2.0 | |
| | 2475 | NSC Tyndall RR | -6 | -8 | 94 | 99 | 86 | 91 | 79 | 92 | 92 | 101 | 108 | 81 | 97 | 2.7 | |
| | 2450 | RR Rosco | -6 | -9 | 99 | 93 | 74 | 84 | – | – | – | – | 102 | 96 | – | 2.9 | |
| | 2400 | 230RR | -5 | -8 | 88 | 88 | 72 | 81 | 79 | 90 | 85 | 87 | 94 | 91 | 62 | 2.5 | |
| | 2375 | Drako RR | -5 | -6 | 83 | 85 | 89 | 91 | 78 | 84 | 90 | 95 | 98 | 89 | 85 | 2.3 | |
| | 2425 | PS 26 RR | -5 | -6 | – | 82 | 85 | 87 | 88 | 88 | 90 | 90 | 97 | 89 | 80 | 2.2 | |
| mid season area | 2500 | RR Regis | -4 | -3 | 96 | 101 | 88 | 93 | 89 | 101 | 98 | 105 | 106 | 93 | 103 | 2.5 | |
| | 2425 | LS 0036RR | -3 | -1 | 104 | – | 96 | – | 98 | – | 110 | – | 116 | 102 | 111 | – | |
| | 2450 | 24-51R | -2 | – | 105 | 105 | 90 | 97 | 107 | 107 | 110 | 110 | 109 | 94 | 116 | 2.0 | |
| | 2450 | Montcalm | -2 | -6 | 84 | 91 | 88 | 88 | 90 | 97 | 101 | 108 | 98 | 80 | 81 | – | |
| | 2450 | LS 0045RR | 0 | 1 | 108 | 108 | 95 | 99 | 106 | 110 | 97 | 106 | 96 | 92 | 91 | – | |
| | 2500 | 25-02R | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3.0 |
| | 2550 | Odyssey | 0 | 1 | 94 | 96 | 85 | 91 | 85 | 85 | 93 | 93 | 97 | 87 | 101 | – | |
| | 2525 | NSC 2011 RR | 0 | 3 | 108 | 106 | 98 | 98 | 101 | 108 | 96 | 102 | 114 | 92 | 94 | – | |
| | 2550 | NSC 2007 RR | 0 | 4 | 103 | 102 | 98 | 99 | 93 | 101 | 99 | 106 | 109 | 94 | 105 | 2.1 | |
| | 2500 | PRO 2590R | 1 | -1 | 87 | 93 | 90 | 94 | – | – | – | – | 107 | 93 | – | – | |
| | 2575 | 90M01 | 1 | 2 | 102 | 110 | 92 | 99 | – | – | – | – | 107 | 102 | – | 2.2 | |
| | 2450 | LS 0065RR | 1 | 3 | 108 | 111 | 95 | 100 | 107 | 120 | 102 | 114 | 115 | 101 | 112 | 2.1 | |
| long season area | 2450 | 26005RR | 2 | 0 | 109 | 105 | 106 | 106 | 96 | 106 | 97 | 107 | 113 | 95 | 102 | – | |
| | 2450 | 26006RR | 3 | 2 | 102 | 104 | 95 | 97 | 100 | 106 | 96 | 112 | 106 | 91 | 96 | – | |
| | 2475 | OlexRR | 2 | 6 | 111 | 110 | 109 | 106 | 122 | 123 | 97 | 105 | 109 | 99 | 102 | 2.5 | |
| | 2475 | 23005RR | 3 | 5 | 100 | 98 | 97 | 96 | 102 | 104 | 93 | 98 | 111 | 90 | 97 | 2.2 | |
| | 2575 | PS 35 RR | 3 | – | – | – | 87 | – | 92 | – | 92 | – | 97 | 89 | 98 | – | |
| | 2600 | RR Regency | 3 | 10 | 93 | 100 | 87 | 90 | – | – | – | – | 94 | 95 | – | 2.5 | |
| | 2650 | PS 46 RR | 5 | – | 88 | – | – | – | – | – | – | – | 103 | 95 | – | – | |
| | 2650 | LynxRR | 7 | – | 114 | – | – | – | 101 | – | 102 | – | 108 | 101 | 90 | 2.8 | |
| 2550 | 25-52R | 8 | – | 103 | – | – | – | – | – | – | – | 111 | 101 | – | 2.3 | | |
| Check | | Days to Maturity | | | | Yield (bu/acre) | | | | | | | | | | | |
| Variety | | 25-02R | Average | 111 | 114 | 47.4 | 50.2 | 39.4 | 39.2 | 58.4 | 58.7 | 45.2 | 43.6 | 38.6 | 57.1 | 28.5 | |
| | | CV%* | | | | 7.8 | | 11.5 | | 12.9 | | 5.8 | | 7.3 | 6.6 | 11.1 | |
| | | LSD%** | | | | 8.4 | | 5.7 | | 5.0 | | 11.5 | | 9.1 | 10.1 | 5.7 | |

- ¹ Manitoba Variety Grouping is a way of grouping varieties of similar maturities together using a combination of Heat Units and Days to Maturity. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety. In general, higher Heat Unit Groupings require more heat/days to mature the variety. Varieties within each grouping are ranked from earliest to latest.
- ² Each company assigns a Heat Unit (HU) rating to each of their varieties that describes the maturity of their variety across Canada. Experience has shown that Company assigned Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.
- ³ Days to Maturity (DTM) are an important criteria when evaluating the maturity of a soybean variety. Days to maturity is the number of days from seeding to maturity (95% of the pods on the plant have achieved their mature brown or grey colour and seeds rattle in the pod when shaken.) Due to different weather conditions each year, the actual number of days it takes a variety to fully mature varies from year to year. This year the data is shown + or - the number of days that the variety matured relative to the check variety – 25-02R. It is hoped that this way of presenting the data will cause less confusion than the actual number of days. Remember, choosing a variety that needs a longer growing season than your farm has, increases your risk of frost damage and lower returns.
- ⁴ Yield data from Arborg, Rosebank and St. Adolphe are presented in 1 and 2 year rolling averages wherever possible. Data was not collected from Morris, Portage or Stonewall in 2005. No soybean data was collected in 2004.
- ⁵ Long term yield of 25-02R is 54 bu/acre (3207 kg/ha) over 19 station years.
- ⁶ IDC Score is a visual rating for Iron Deficiency Chlorosis. These ratings are from 1 site in 2006 and generally show the trend observed in the field for tolerance, but differences of 0.2 cannot be deemed significant until more data is collected. The varieties are grown in a known chlorosis field (typically has high free carbonates and soluble salts) and are visually rated for the amount of yellowing at the top of the plant after a period of stress. More tolerant varieties (varieties with lower IDC scores) have been shown to perform better on soils prone to Iron Deficiency Chlorosis.
- * NOTE: Shattering at these 3 sites (Stonewall, Portage and St. Adolphe) was an issue primarily for the early season soybean varieties. Due to standard plot management practices, the soybeans are seeded at one time and harvested at one time. For this reason, the early season soybeans were mature for a long time before they were combined and occurred shattering losses. At the time of harvest, many of the beans from the early season varieties were testing at 6% moisture.
- ** CV = Coefficient of Variation. A measure of the variation within a trial. A small CV is desirable.
- *** LSD = Least Significant Difference. Varieties must differ by this percentage to be considered significantly different.

CONVENTIONAL SOYBEANS

| Manitoba ¹ Variety Grouping | Company ² Heat Unit Variety | | Relative Maturity ³ +/- days of PRUDENCE | | Arborg ⁴ | | Rosebank | | Rosebank | | 1 Year Data Only ⁵ | | | | |
|--|--|---------------------|--|----------|---------------------|------------|---------------|------------|---------------|------------|-------------------------------|------------|--------|---------|-----------|
| | | | | | 2006– 2005 | | 2006– 2005 | | 2006– 2005 | | 2006– 2005 | | Morris | Portage | Stonewall |
| | | | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2005 | 2006 | 2006 | 2006 |
| short season area | 90A01 | | -6 | -7 | 103 | 97 | 99 | 97 | 108 | 102 | 90 | 68 | 71 | | |
| | Tundra | | -4 | – | 106 | – | 87 | – | 103 | – | 112 | 104 | 89 | | |
| | Experimental lines are being tested/proposed for registration in Canada | | | | | | | | | | | | | | |
| PR432622 | | -4 | – | 98 | – | 79 | 86 | 93 | 90 | 84 | 105 | 90 | | | |
| mid season area | 2450 | Accord~ | 1 | 7 | – | – | – | – | – | – | – | – | | | |
| | 2450 | OAC PRUDENCE | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| | 2500 | 90A07 | 2 | 2 | – | – | 0 | 113 | 117 | 109 | 100 | 0 | 0 | | |
| | 2450 | Jim | 2 | 1 | – | – | 98 | 102 | 121 | 107 | 105 | 0 | 0 | | |
| | | OAC Carman | 3 | – | 126 | – | 103 | 104 | 125 | 115 | 117 | 99 | 96 | | |
| | 2575 | Dolly | 4 | 6 | 111 | 107 | 100 | 105 | 116 | 104 | 92 | 97 | 80 | | |
| | 2575 | OAC Erin | 5 | 5 | – | – | 123 | 128 | 115 | 109 | 125 | 0 | 0 | | |
| | Experimental lines are being tested/proposed for registration in Canada | | | | | | | | | | | | | | |
| | PR634155 | | 1 | – | 102 | – | 0 | – | 112 | – | 108 | 98 | 96 | | |
| | SeCan 02-05 | | 3 | – | 113 | 114 | 107 | 106 | 120 | 114 | 109 | 97 | 93 | | |
| | OT05-20 | | 4 | – | – | – | 92 | – | 109 | – | 97 | 0 | 0 | | |
| | OT05-21 | | 4 | – | – | – | 93 | – | 92 | – | 92 | 0 | 0 | | |
| | PR421213 | | 4 | – | 109 | – | 97 | – | 110 | – | 101 | 98 | 94 | | |
| PR634197 | | 4 | – | 109 | – | 0 | – | 130 | – | 104 | 106 | 101 | | | |
| 99SS9.08 | | 4 | – | 105 | – | 104 | 109 | 112 | – | 93 | 86 | 73 | | | |
| 99SS9.26 | | 5 | – | 105 | – | 107 | 108 | 114 | – | 96 | 101 | 81 | | | |
| OAC 05-02 | | 5 | – | 127 | – | 114 | – | 121 | – | 108 | 112 | 89 | | | |
| long season area | OAC Ayton | | 6 | 16 | 119 | 113 | 111 | 124 | 123 | 116 | 98 | 89 | 100 | | |
| | OAC Gretna | | 7 | 14 | 128 | – | 114 | 114 | 125 | 111 | 105 | 113 | 89 | | |
| | Experimental lines are being tested/proposed for registration in Canada | | | | | | | | | | | | | | |
| | SeCan 05-06 | | 6 | – | 97 | – | 98 | – | 121 | – | 98 | 98 | 101 | | |
| | T0404 | | 8 | – | – | – | 107 | – | 121 | – | 115 | 0 | 0 | | |
| | SeCan 05-05 | | 8 | – | 126 | – | 105 | – | 121 | – | 110 | 106 | 116 | | |

| Check Variety | Days to Maturity | | | | Yield (bu/acre) | | | | | | | | |
|------------------|------------------|---|---|---|-----------------|----|-----|----|------|----|------|-----|------|
| | OAC PRUDENCE | | | | 35 | 42 | 52 | 53 | 31 | 39 | 54 | 52 | 28 |
| CV%* | – | – | – | – | 7.6 | – | 6.4 | – | 13.1 | – | 10.7 | 9.1 | 14.2 |
| LSD%** | – | – | – | – | 4 | – | 5 | – | 6 | – | 6 | 7 | 4 |

- ¹ Manitoba Variety Grouping is a way of grouping varieties of similar maturities together using a combination of Heat Units and Days to Maturity. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety. In general, higher Heat Unit Groupings require more heat/days to mature the variety. Varieties within each Grouping are ranked from earliest to latest.
 - ² Each company assigns a Heat Unit (HU) rating to each of their varieties that describes the maturity of their variety across Canada. Experience has shown that Company assigned Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.
 - ³ Days to Maturity (DTM) are an important criteria when evaluating the maturity of a soybean variety. Days to maturity is the number of days from seeding to maturity (95% of the pods on the plant have achieved their mature brown or grey colour and seeds rattle in the pod when shaken.) Due to different weather conditions each year, the actual number of days it takes a variety to fully mature varies from year to year. This year the data is shown + or - the number of days that the variety matured relative to the check variety – OAC PRUDENCE. It is hoped that this way of presenting the data will cause less confusion than the actual number of days. Remember, choosing a variety that needs a longer growing season than your farm has, increases your risk of frost damage and lower returns.
 - ⁴ Yield data from Arborg, Rosebank and St. Adolphe are presented in 1 and 2 year rolling averages wherever possible. Data was not collected from Morris, Portage or Stonewall in 2005. No soybean data was collected in 2004.
 - ⁵ Long term yield of OAC Prudence is 49 bu/acre (3287 kg/ha) over 40 station years.
- * CV = Coefficient of Variation. A measure of the variation within a trial. A small CV is desirable.
- ** LSD = Least Significant Difference. Varieties must differ by this percentage to be considered significantly different.

SOYBEAN IN NON-TRADITIONAL AREAS TEST

| Manitoba ² Grouping | Company ² Heat Unit | Variety | Yield (bu/acre) | | | | | | | | |
|-----------------------------------|-----------------------------------|----------------|--------------------|----------|-------|----------------|--------|----------|-------------|----------|--------------|
| | | | Dryland Production | | | | | | | | Irrigated |
| | | | Saskatchewan Sites | | | Manitoba Sites | | | | | Ontario Site |
| | | | Saskatoon | Rosthern | Oxbow | Hamiota | Roblin | Carberry | Thunder Bay | Carberry | |
| Early | 2350 | Gaillard | 34 | 23 | 8 | 23 | 54 | 22 | 31 | 50 | |
| Early | 2350 | 90A01 | 27 | 26 | 11 | 23 | 66 | 20 | 36 | 59 | |
| Early | 2350 | OAC Vision | 24 | 18 | 6 | 20 | 57 | 16 | 29 | 39 | |
| Early | 2375 | Apollo RR | 36 | 25 | 8 | 25 | 58 | 20 | 32 | 54 | |
| Early | 2475 | NSC Tyndall RR | 35 | 23 | 7 | 17 | 60 | 24 | 35 | 53 | |
| Mid | 2450 | RR Rosco | 33 | 23 | 7 | 17 | 55 | 19 | 32 | 46 | |
| Mid | 2450 | OAC Prudence | 39 | 26 | 5 | 24 | 62 | 21 | 40 | 56 | |
| Mid | 2450 | 24-51R | 37 | 31 | 9 | 23 | 65 | 25 | 40 | 55 | |
| Late | 2575 | 90M01 | 40 | 21 | 3 | 18 | 0 | 21 | 33 | 50 | |
| CV% | | | 9.8 | 11.0 | 18.5 | 15.2 | 3.8 | 22.3 | 10.8 | 11.0 | |
| LSD (bu/acre) | | | 3 | 2 | 1 | 6 | 4 | 8 | 6 | 10 | |

FABABEANS

Comments: Fababeans were not tested in 2006, they were last tested in 2005.
Fababeans will be tested in 2007, with a focus on small seeded, white seed coat, zero tannin types.

| Variety Descriptions ¹ | Long Term ² Average Yield | | 2005 Yield by Test Location ³ % of CDC Fatima | | Seed Size |
|---|---|-------|---|--|-----------|
| | % of CDC Fatima | | Arborg | | |
| CDC Blitz | 100 | (22)* | 101 | | Medium |
| CDC Fatima | 100 | (22) | 100 | | Medium |
| Compass | 98 | (5) | 110 | | Large |
| Quattro | 100 | (5) | – | | Medium |
| Scirocco | 95 | (8) | – | | Large |
| Taboar | 96 | (3) | 112 | | Medium |
| Varieties that are registered in the United States or being tested/proposed for registration in Canada | | | | | |
| Ceb 02926 | 101 | (2) | 94 | | n/a |
| CMB-00 | 77 | (2) | – | | n/a |
| MFB-75 | 118 | (2) | – | | n/a |
| UM214 | 55 | (2) | – | | n/a |
| Yield of CDC Fatima (lb/acre) | | | 3297 | | |
| CV%** | | | 9.2 | | |
| LSD%*** | | | 19.8 | | |

¹ Except for the Yield data, the information was obtained from the Co-operative Registration Trials. This information should be used as a general guide only.

² CDC Fatima average yield 3107 lb/acre (3491 kg/ha) over 22 site years.

³ Long Term Average Yield is the best indicator of variety performance. Use single year site data with caution.

* Number in brackets is the actual number of site years in direct comparison to the check CDC Fatima. The more site years the more dependable the data.

* CV = Coefficient of Variation. A measure of random variation in a trial. A small CV is desirable.

** LSD = Least Significant Difference. Varieties must differ by this percentage to be considered significantly different.

n/a = data not available

LENTILS

| Market Class | Variety | Long Term ¹ | | 2006 Average Yield | Yield by Test Location ² – % of Laird | | |
|---|---------------|-----------------------------|--------|-----------------------|--|---------|--------|
| | | Manitoba Yield – % of Laird | | | Boissevain | Hamiota | Roblin |
| Large Green | CDC Grandora | 95 | (16) * | 106 | 121 | 111 | 92 |
| | CDC Plato | 118 | (13) | 126 | 130 | 147 | 109 |
| | CDC Sedley | 101 | (14) | 111 | 128 | 124 | 90 |
| | CDC Sovereign | 106 | (16) | 110 | 121 | 125 | 91 |
| | Laird | 100 | (39) | 100 | 100 | 100 | 100 |
| | 1196D-5 | 109 | (4) | 114 | 123 | 139 | 91 |
| Medium Green | CDC Meteor | 113 | (9) | 120 | 130 | 148 | 93 |
| | CDC Richlea | 127 | (23) | 134 | 150 | 164 | 102 |
| Small Green | CDC Milestone | 104 | (16) | 127 | 130 | 170 | 94 |
| | CDC Viceroy | 113 | (9) | 125 | 126 | 165 | 96 |
| | Eston | 129 | (39) | 115 | 133 | 147 | 80 |
| Small Red | CDC Blaze | 91 | (14) | 98 | 93 | 127 | 82 |
| | CDC Redberry | 113 | (7) | 117 | 155 | 128 | 83 |
| | CDC Rouleau | 113 | (4) | 127 | 137 | 159 | 97 |
| Small Red – HT | CDC Impact | 95 | (4) | 104 | 114 | 128 | 81 |
| | CDC Imperial | 101 | (4) | 106 | 117 | 136 | 78 |
| Extra Small Red | CDC Robin | 110 | (16) | 113 | 114 | 148 | 87 |
| | CDC Rosetown | 113 | (4) | 121 | 129 | 155 | 92 |
| Varieties that are being tested or proposed for registration | | | | | | | |
| Large Yellow – HT | LGBC | 111 | (3) | 111 | 124 | 126 | 92 |
| Medium Green | 1269s-20 | 140 | (3) | 140 | 162 | 162 | 108 |
| Medium Green | 1267m-88 | 122 | (3) | 122 | 125 | 144 | 105 |
| Large Red | Red Chief | 104 | (3) | 104 | 130 | 120 | 73 |
| Medium Red | 1308m-7 | 116 | (3) | 116 | 125 | 147 | 89 |
| Small Red | 1283d-10 | 139 | (3) | 139 | 166 | 162 | 103 |
| | | Yield of Laird (lb/acre) | | 2654 | 2326 | 2326 | 3308 |
| | | CV%** | | | 10.9 | 8.3 | 9.4 |
| | | LSD%*** | | | 6 | 7 | 6 |

¹ Long Term Manitoba Yield is compiled from trials in Western Manitoba where Laird yielded 1483 lb/acre over 39 site-years. No yield data was collected in 2004.

² Long term average yield is best indicator of variety performance. Use single year site data with caution.

* Number in brackets is actual number of site-years in direct comparison to Laird, the more site-years the more dependable the data.

** CV = Coefficient of Variation. A measure of random variation in a trial. A small CV is desirable.

*** LSD = Least Significant Difference. Varieties must differ by this percentage to be considered significantly different.

MANITOBA PULSE BUYER LIST – NOVEMBER 2006

B–Beans, F–Fababeans, L–Lentils, P–Peas, S–Soybeans

| Company | Commodity | Phone | City/Town | CGC Registered |
|--------------------------------|---------------|--------------|------------------------|----------------|
| AgPro/Saskatchewan Wheat Pool | P, L | 306-569-5488 | Regina, SK | Y |
| Agassiz Feeds | P | 204-638-5840 | Dauphin, MB | N |
| Agassiz Seed Farm Ltd. | B, S | 204-745-6655 | Homewood, MB | N |
| Agricore United | P, S | 204-954-1528 | Winnipeg, MB | Y |
| Agricore United Special Crops | B, F, L, P | 204-745-6711 | Carman, MB | Y |
| • Receiving Station | B | 204-856-6373 | Portage la Prairie, MB | Y |
| • Plum Coulee | B | 204-829-2364 | Plum Coulee, MB | Y |
| • Prairie Mountain Agri Ltd. | P | 204-937-6370 | Roblin, MB | Y |
| AgriTel Grain Ltd. | P, S | 204-268-1415 | Beausejour, MB | N |
| B. B. F. Enterprises Ltd. | S | 204-737-2245 | Lettellier, MB | N |
| B & R Seeds Ltd. | S | 204-379-2582 | St. Claude, MB | N |
| Belle Pulses Ltd. | P | 306-423-5202 | Bellevue, SK | Y |
| Best Cooking Pulses, Inc. | P, L | 204-857-4451 | Portage la Prairie, MB | Y |
| Cargill Ltd. | P | 204-947-6219 | Winnipeg, MB | Y |
| Central Grain Company | B | 204-233-4977 | Winnipeg, MB | N |
| EXP Feeds Inc. | B, F, P | 204-759-3000 | Shoal Lake, MB | N |
| Global Grain Canada | B | 204-829-3641 | Plum Coulee, MB | N |
| H & W Seed Service | B | 204-325-7440 | Winkler, MB | N |
| Hensall District Co-op | B | 204-295-3938 | Winnipeg, MB | Y |
| Horizon Agro | P, L, S | 204-746-2026 | Morris, MB | Y |
| James Richardson International | P | 204-934-5621 | Winnipeg, MB | Y |
| • Pioneer Grain | P | 204-934-5961 | Winnipeg, MB | Y |
| • Tri Lake Agri Limited | P | 204-523-5380 | Killarney, MB | Y |
| Jordan Mills | S | 204-331-3696 | Winkler, MB | Y |
| • Delmar Commodities | S, P | 204-331-3696 | Winkler, MB | Y |
| Linear Grain | B, S, P | 204-745-6747 | Carman, MB | Y |
| • Portage Bean Station | B | 204-274-2223 | Macdonald, MB | Y |
| Louis Dreyfus Canada Ltd | | | | |
| • Rathwell Station | P | 204-749-2211 | Rathwell, MB | Y |
| • Virden Station | P | 204-748-6282 | Virden, MB | Y |
| Masterfeeds | F, P | 204-638-5840 | Dauphin, MB | N |
| Parent Seeds Ltd. | B, P, L, S | 204-737-2625 | St. Joseph, MB | Y |
| • Adrian Bean Station | B | 204-274-2720 | Macdonald, MB | Y |
| Parrish & Heimbecker Ltd | P | 204-987-4320 | Winnipeg, MB | Y |
| • Nutri-Pea Limited | P | 204-239-5995 | Portage la Prairie, MB | N |
| Paterson & Sons Limited, N. M. | P, S | 204-956-2090 | Winnipeg, MB | Y |
| Prairieland Grain Co. Ltd. | B, P, L | 204-483-3636 | Hartney, MB | N |
| R. T. Stow Ltd. | B | 204-745-3252 | Carman, MB | Y |
| Roy Legumex | B, F, L, P, S | 204-758-3597 | St. Jean Baptiste, MB | Y |
| • Fisher Seeds Ltd. | F | 204-622-8800 | Dauphin, MB | Y |
| • Duncan Seeds | B | 204-822-6629 | Morden, MB | Y |
| S. S. Johnson Seeds | P, B | 204-376-5228 | Arborg, MB | Y |
| Saskatchewan Wheat Pool | P | 306-569-4200 | Regina, SK | Y |
| Seed-Ex Inc. | S | 204-737-2000 | Lettellier, MB | Y |
| The Puratone Corporation | P | 204-376-5060 | Arborg, MB | N |
| Thompsons Limited | B, P, L | 519-676-5411 | Blenheim, ON | Y |
| • Keystone Grain | B, S | 204-325-9555 | Winkler, MB | Y |
| • Circle T Agri Services | B | 204-723-2164 | Treherne, MB | Y |
| • Y2K Farms | B | 204-252-2132 | Edwin, MB | Y |
| TransGlobal Commodities | B, P, S, L | 204-975-0803 | Winnipeg, MB | N |
| Vanderveen Commodity Services | S | 204-745-6444 | Carman, MB | Y |
| Walhalla Bean Co. (Canada Ltd) | B | 701-549-3721 | Walhalla, ND | Y |
| • Winkler Receiving | B | 204-325-0767 | Winkler, MB | Y |
| Walker Seeds Ltd. | P | 306-873-3777 | Tisdale, SK | Y |
| West Can Agra | B, S | 204-829-3230 | Plum Coulee, MB | N |
| Western Grain Trade Ltd. | P | 306-445-4022 | North Battleford, SK | N |

To be included on our Manitoba Buyers List, companies should contact the MPGA office at 204-745-6488 to register.

Note: These companies are authorized to deduct and remit levy to MPGA. This list is provided by MPGA as a convenience to our members. MPGA accepts no responsibility or liability for the accuracy of the completeness of the information provided. It is your personal responsibility to satisfy yourself that any company you deal with is financially sound. Questions regarding licensing and security should be directed to the Canadian Grain Commission at 1-800-853-6705 or 1-204-983-2770.