

This publication features the results from MPSG sponsored trials

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The independent evaluation of soybean and pulse varieties across five different crop types (soybeans, edible beans, peas, faba beans and lentils) found within this publication are made possible with your continued support through your MPSG check-off. The objective of these trials is to provide the Manitoba soybean and pulse industry with independent, scientific information on variety performance and agronomic characteristics.

The evaluation of Roundup Ready soybeans was conducted at 12 locations in 2016, which are reported by eastern and western Manitoba. In eastern Manitoba, there are three categories – early, mid and late sites. *Long-season* sites include Morden and Rosebank, which test long- and mid-season varieties. *Mid-season* sites include Morris and St. Adolphe – these varieties are also called the *core* sites because they test all varieties. *Short-season*

sites include Arborg, Beausejour and Stonewall, which test early- and mid-season varieties. Western Manitoba sites include Boissevain, Carberry, Dauphin, Hamiota and Melita. Conventional (non-GM) soybeans were tested at select sites in eastern and western Manitoba.

The evaluation of dry beans is conducted under both wide row (≥ 60 cm) and narrow row (≤ 40 cm), which are reported separately. Wide row trials were conducted at three locations – Carman, Morden, and Winkler. Narrow row trials were conducted at two locations – Morden and Stonewall. Entries in the evaluation are separated into small- (navy, black), medium- (pinto, pink, yellow) and large-seeded (cranberry, light red kidney and Great Northern).

There are two main types of data tables – *Variety Description* and *Yield by Location*. Variety description tables include long-term maturity and yield

data, as well as agronomic characteristics. Yield by location tables report yield data from the current year for each location.

All trials are replicated three times and randomized to allow for statistical analysis. Statistical yield differences can be evaluated only using single-site year data, which is found in all *Yield by Location* tables. To compare yields, look at the LSD (Least Significant Difference). The LSD represents the yield quantity (in bu/ac or lbs/ac) that two varieties must differ before you can say with a 95% confidence that a true yield difference exists due to genetics.

We acknowledge the hard work of all the people who plant, maintain, take notes, harvest the plots, and are responsible for the data contained within this publication. We appreciate the hard work of the staff at Manitoba Agriculture, Agriculture and Agri-Food Canada, Cereal Research Centre, the WADO, PCDF, PESAI and CMCDC research facilities and the private research companies, without whom this publication would not have been possible.

NOTES FOR ALL SOYBEAN TABLES

Manitoba Variety Zone – Soybean varieties have been organized into four maturity zones – very early, early, mid and long season. These zones reflect the Manitoba Soybean Maturity Map, which displays soybean maturity zones based on long term heat unit and frost-free period data. Varieties fall into certain zones based on their average relative days to maturity. The zone indicates the longest variety zone that varieties should be selected from for each region.

Company Maturity Grouping – Maturity grouping is the ranking of maturity provided by seed suppliers.

Relative Days to Maturity (DTM) – This value is the number of days from seeding to plant maturity (R-8 or 95% of pods on the main stem have turned color) and is expressed as + or – days relative to the check variety. Actual days to maturity for the check variety is found in the grey box at the bottom of the table. Relative days to maturity is shown as an average of three previous years and by individual year. Maturity can vary by year which is why it is important to use long term data when making variety selection decisions.

Yield % Check – This value indicates the average yield across all site years that the variety has been tested relative to the check.

Site Years Tested – This value indicates the total number of individual site years that a variety has been tested at. For example, if a variety was tested at five sites in two years, the total site years would be 10. The higher the number, the more environments the variety has been tested in. Typically, a variety is tested at two to five sites per year.

Hilum Colour – Hilum colour be Clear (CL), Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF), Tan (TN) Imperfect Black (IB) or Black (BL). The hilum is the point of attachment on the soybean seed where it attaches to the pod. Hilum colour is a marketing factor.

Relative seeds/lb – This is the seed number/weight of the varieties as provided by the seed suppliers. Soybean seed size can vary greatly between varieties as well as between seed lots of the same variety. Seed number/weight for individual seed lots should be used when calculating seeding rates.

Lodging is rated at harvest; 1 = standing upright, 5 = flat on the ground.

Iron Deficiency Chlorosis (IDC) ratings are given to each variety based on the following scale: 1 = green leaves, 2 = yellowish leaves, 3 = green veins with yellow leaves, 4 = brown dead tissue between green veins, 5 = severe chlorosis and a stunted growing point. Ratings provided are the three-year average from a site near Winnipeg that is prone to iron chlorosis. Lower IDC ratings generally perform better on soils prone to iron chlorosis. Groupings are also provided based on the following scale: T = Tolerant, ST = Semi-Tolerant and S = Susceptible.

Coefficient of Variation (CV) is the statistical measure of random variation in a trial. CV less than 15% generally indicates a more uniform trial and conclusive data.

Least Significant Difference (LSD) is the numerical value that two varieties must differ before it can be said with a 95% chance of certainty that a true yield difference exists.





Manitoba Soybean Maturity Zones

(A guideline for choosing varieties)

Map Elements

-  Water Bodies
-  Rural Municipalities
-  Prov/Nat. Parks

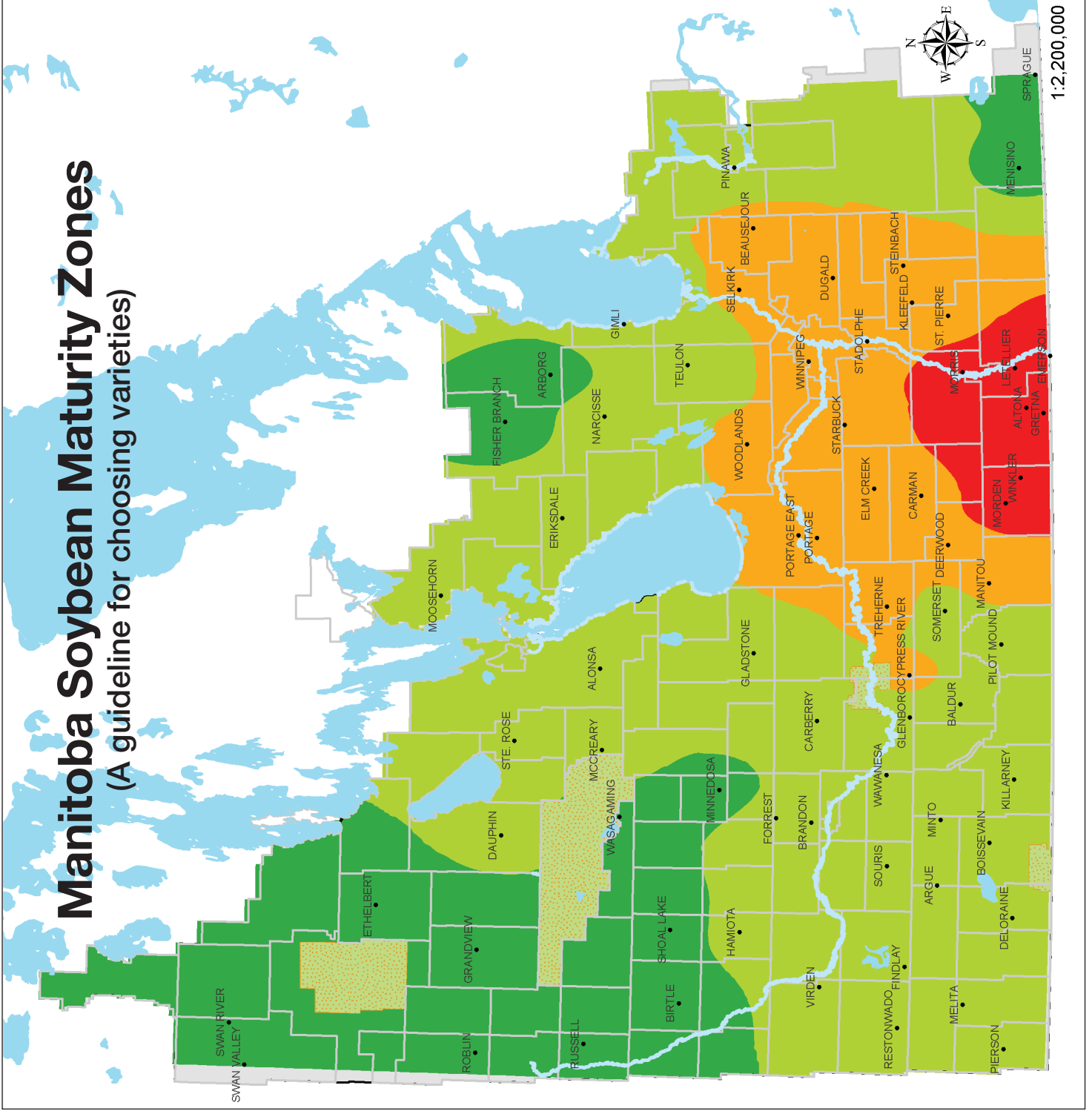
Maturity Zones

-  Very Early
-  Early
-  Mid
-  Long

| Maturity Zone | CHU | FFP (days) | Maturity Grouping |
|---------------|-----------|------------|-------------------|
| V Early | <2250 | <110 | <00.2 |
| Early | 2250-2400 | 110-118 | 00.2-00.3 |
| Mid | 2401-2550 | 119-125 | 00.4-00.6 |
| Long | >2550 | >125 | >00.6 |

This map is based on 1981-2010 Climate Normal Data for cumulative Corn Heat Units (CHU, May 15 - Sept 20) and average frost-free period (FFP, days $T_{min} > 0^{\circ}C$).

The map outlines the longest maturity suggested for each production area, but earlier varieties can also perform well. Use in conjunction with Soybean Variety Evaluation Guide, which outlines varieties according to maturity zones.



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EASTERN MANITOBA ROUNDUP READY SOYBEAN TRIALS – YIELD BY LOCATION

| Manitoba Variety Zone | Company Maturity Grouping | Variety | 2016 Yield: % of 24-10RY | | | | | | | |
|---|---|----------------------|--------------------------|------------|-----------|------------|-------------|------------|----------|--------|
| | | | Early Sites | | | Core Sites | | Late Sites | | |
| | | | Arborg | Beausejour | Stonewall | Morris | St. Adolphe | Morden | Rosebank | |
| Very Early Season Zone | 000.6 | NSC LEROY RR2Y | 95 | 82 | 92 | 68 | 77 | – | – | |
| | 00.2 | P002T04R | 95 | 81 | 95 | 93 | 88 | – | – | |
| | 000.9 | 22-60RY | 96 | 89 | 102 | 84 | 83 | – | – | |
| | 000.9 | S0009-M2 | 91 | 91 | 90 | 83 | 86 | – | – | |
| | 000.8 | NSC Watson RR2Y | 81 | 78 | 93 | 88 | 87 | – | – | |
| Early Season Zone | 00.1 | NSC Reston RR2Y | 101 | 74 | 93 | 86 | 89 | – | – | |
| | 00.2 | LS Northwester | 99 | 71 | 89 | 83 | 89 | – | – | |
| | 00.2 | Bishop R2 | 98 | 96 | 89 | 85 | 85 | – | – | |
| | 000.9 | 23-11RY | 106 | 97 | 103 | 97 | 96 | – | – | |
| | 00.1 | Notus R2 | 102 | 91 | 104 | 85 | 91 | – | – | |
| | 00.3 | Mahony R2 | 100 | 102 | 105 | 100 | 91 | – | – | |
| | 00.1 | S001-B1 | 98 | 96 | 103 | 94 | 99 | – | – | |
| | 00.3 | McLeod R2 | 95 | 92 | 96 | 98 | 87 | – | – | |
| | 00.5 | S007-Y4 | 112 | 106 | 114 | 92 | 94 | – | – | |
| | 000 | Torro R2 PR1418113R2 | 96 | 99 | 97 | 84 | 88 | – | – | |
| | 00.2 | 23-60RY | 98 | 109 | 109 | 98 | 95 | – | – | |
| | 00.3 | S003-L3 | 96 | 101 | 103 | 96 | 96 | – | – | |
| | 00.6 | P006T78R | 101 | 88 | 105 | 95 | 107 | – | – | |
| | 00.3 | PS 0035 NR2 | 95 | 114 | 106 | 99 | 104 | – | – | |
| | 00.3 | NSC Austin RR2Y | 111 | 100 | 99 | 88 | 96 | – | – | |
| | 00.4 | TH 32004R2Y | 105 | 117 | 106 | 106 | 87 | – | – | |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | |
| | | 000 | CFS16.3.01R2 | 88 | 105 | 94 | 93 | 81 | – | – |
| | | 000.9 | EXP 000917R2 | 98 | – | 94 | 59 | 90 | – | – |
| | Mid Season Zone | 00.4 | PS 0055 R2 | 110 | 90 | 98 | 97 | 99 | – | – |
| 00.3 | | Akras R2 | 113 | 118 | 111 | 91 | 105 | – | – | |
| 00.3 | | NSC Gladstone RR2Y | 100 | 114 | 101 | 109 | 99 | – | – | |
| 00.2 | | TH 35002R2Y | 95 | 114 | 97 | 100 | 88 | – | – | |
| 00.2 | | LS 002R24N | 104 | 117 | 108 | 106 | 101 | – | – | |
| 00.6 | | P006T46R | 108 | 107 | 110 | 94 | 96 | – | – | |
| 00.6 | | Chadburn R2 | 108 | 107 | 110 | 106 | 94 | – | – | |
| 00.6 | | S006-W5 | – | – | – | 108 | 117 | 110 | 112 | |
| 00.3 | | LS 003R24N | – | – | – | 108 | 101 | 102 | 106 | |
| 00.5 | | Lono R2 | 108 | 114 | 112 | 89 | 102 | – | – | |
| 00.5 | | P005T13R | 92 | 84 | 99 | 86 | 95 | – | – | |
| 00.5 | | TH 33005R2Y | – | – | – | 98 | 98 | 102 | 104 | |
| 00.5 | | 24-10RY | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| 00.8 | | P008T70R | 104 | 80 | 102 | 88 | 87 | – | – | |
| 00.6 | | TH 34006R2Y | – | – | – | 116 | 99 | 107 | 104 | |
| 00.7 | | HS 007RY32 | – | – | – | 110 | 99 | 106 | 105 | |
| 00.5 | | Gray R2 | 98 | 110 | 110 | 113 | 108 | – | – | |
| 00.3 | | LS Maidan | – | – | – | 106 | 94 | 102 | 99 | |
| 00.4 | | NSC Tilston RR2Y | 108 | 108 | 99 | 93 | 97 | – | – | |
| 00.6 | | HS 006RYS24 | 103 | 105 | 99 | 106 | 101 | – | – | |
| 00.4 | | Hero R2 | 121 | 104 | 110 | 100 | 108 | – | – | |
| 00.8 | | P008T22R2 | 112 | 110 | 112 | 109 | 100 | – | – | |
| 000 | | Kosmo R2 | 98 | 88 | 94 | 75 | 88 | – | – | |
| 00.3 | | TH 33003R2Y | 111 | 107 | 108 | 105 | 98 | 95 | 96 | |
| 00.6 | | PRO 2525R2 | – | – | – | 106 | 98 | 99 | 103 | |
| 00.7 | NSC Richer RR2Y | – | – | – | 111 | 93 | 106 | 110 | | |
| 00.5 | 24-12RY | 98 | 99 | 104 | 117 | 96 | – | – | | |
| Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | | |
| | 00.4 | CW1410185 | 112 | 116 | 104 | 94 | 95 | – | – | |
| | 00.2 | LS SOLAIRE | 101 | 87 | 100 | 88 | 91 | – | – | |
| Long Season Zone | 00.5 | TAMULA R2 | 112 | 101 | 103 | 90 | 104 | – | – | |
| | 00.5 | LS 005R22 | – | – | – | 109 | 93 | 94 | 105 | |
| | 00.8 | Currie R2 | – | – | – | 107 | 100 | 104 | 100 | |
| | 00.6 | DS0067Z1 | 107 | 121 | 115 | 119 | 104 | – | – | |
| | 00.5 | LS Eclipse | – | – | – | 121 | 91 | 93 | 107 | |
| | 00.7 | PS 0074 R2 | – | – | – | 107 | 103 | 103 | 112 | |
| | 00.8 | Podaga R2 | – | – | – | 97 | 104 | 92 | 102 | |
| | 0.1 | HYDRA R2 | – | – | – | 109 | 101 | 101 | 99 | |
| | 00.8 | Astro R2 | – | – | – | 124 | 102 | 113 | 115 | |
| | 00.7 | TH 36007R2Y | – | – | – | 103 | 104 | 87 | 109 | |
| | 00.9 | PRO 2535R2 | – | – | – | 110 | 99 | 100 | 107 | |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | |
| | 00.4 | EXP TH 37004R2Y | 100 | 106 | 99 | 105 | 103 | – | – | |
| | 00.4 | LS MISTRAL | – | – | – | 109 | 110 | 115 | 117 | |
| | 00.7 | AR1215342 | – | – | – | 102 | 107 | 108 | 106 | |
| | 00.9 | NSC Jordan RR2Y | – | – | – | 93 | 114 | 108 | 105 | |
| CHECK CHARACTERISTICS | | | 24-10RY (bu/acre) | 63 | 52 | 59 | 62 | 59 | 58 | 53 |
| | | | CV% | 7 | 10 | 6 | 7 | 5 | 7 | 4 |
| | | | LSD | 11 | 17 | 10 | 11 | 8 | 12 | 7 |
| | | | Sign Dif | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | | Seeding Date | 24-May | 19-May | 24-May | 24-May | 17-May | 30-May | 24-May |
| | | | Harvest Date | 13-Oct | 14-Oct | 29-Sep | 13-Oct | 28-Sep | 03-Oct | 28-Sep |

WESTERN MANITOBA ROUNDUP READY SOYBEAN TRIALS

In 2016, trials were located at Boissevain, Dauphin, Carberry, Hamiota, Melita

MATURITY & YIELD BY LOCATION

| Company Maturity Grouping | Variety | Yield % Check | Site Years Tested | Relative Days to Maturity ¹ + / - of Check | | | | 2016 Yield % of NSC Reston RR2Y | | | | |
|---|--------------------|---------------|-------------------|--|------|------|------|---------------------------------|----------|---------|---------|--------|
| | | | | Average | 2016 | 2015 | 2014 | Boissevain | Carberry | Dauphin | Hamiota | Melita |
| 000.6 | NSC LEROY RR2Y | 83 | 5 | -7 | -7 | - | - | 69 | 77 | 85 | 89 | 90 |
| 00.2 | P002T04R | 92 | 14 | -4 | -3 | -3 | -5 | 98 | 79 | 84 | 75 | 107 |
| 000.9 | S009-M2 | 101 | 10 | -3 | -1 | -5 | - | 67 | 80 | 108 | 98 | 119 |
| 000.8 | NSC Watson RR2Y | 99 | 10 | -2 | 0 | -4 | - | 98 | 82 | 105 | 103 | 126 |
| 000.9 | 22-60 RY | 96 | 14 | -1 | -1 | -1 | -1 | 65 | 86 | 97 | 91 | 110 |
| 00.1 | S001-B1 | 104 | 5 | -1 | -1 | - | - | 113 | 94 | 100 | 100 | 120 |
| 00.1 | NSC Reston RR2Y | 100 | 20 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 |
| 00.2 | LS NorthWester | 98 | 14 | 0 | 2 | 0 | -1 | 88 | 82 | 94 | 87 | 98 |
| 00.2 | 23-60RY | 105 | 19 | 1 | 4 | 2 | -4 | 108 | 97 | 99 | 98 | 119 |
| 000.9 | 23-11 RY | 99 | 14 | 2 | 1 | 1 | 3 | 89 | 90 | 100 | 94 | 109 |
| 00.3 | NSC AUSTIN RR2Y | 99 | 5 | 2 | 2 | - | - | 108 | 93 | 90 | 96 | 119 |
| 00.2 | Bishop R2 | 99 | 20 | 2 | 2 | 3 | 1 | 90 | 79 | 98 | 86 | 122 |
| 00.2 | 22-61RY | 95 | 5 | 3 | 3 | - | - | 99 | 77 | 97 | 102 | 101 |
| 00.2 | LS 002R24N | 107 | 19 | 3 | 6 | 3 | 0 | 96 | 102 | 99 | 101 | 131 |
| 00.3 | Mahony R2 | 108 | 14 | 3 | 3 | 3 | 3 | 85 | 93 | 101 | 107 | 124 |
| 00.6 | P006T78R | 107 | 10 | 3 | 4 | 2 | - | 103 | 99 | 99 | 92 | 144 |
| 00.3 | McLeod R2 | 107 | 20 | 3 | 4 | 3 | 2 | 108 | 104 | 95 | 89 | 130 |
| 00.4 | PS 0055 R2 | 98 | 5 | 3 | 3 | - | - | 89 | 90 | 100 | 103 | 107 |
| 00.5 | S007-Y4 | 112 | 14 | 4 | 6 | 3 | 2 | 102 | 104 | 99 | 101 | 143 |
| 00.2 | TH 35002R2Y | 99 | 14 | 4 | 4 | 4 | 3 | 107 | 112 | 86 | 90 | 141 |
| 00.4 | TH 32004R2Y | 111 | 20 | 4 | 6 | 4 | 1 | 106 | 89 | 93 | 94 | 167 |
| 00.3 | S003-L3 | 104 | 5 | 4 | 4 | - | - | 92 | 91 | 100 | 107 | 137 |
| 00.3 | Akras R2 | 107 | 14 | 4 | 4 | 5 | 3 | 87 | 100 | 106 | 99 | 136 |
| 00.3 | TH 33003R2Y | 104 | 20 | 4 | 7 | 5 | 1 | 106 | 86 | 96 | 93 | 140 |
| 00.3 | PS 0035 NR2 | 103 | 19 | 4 | 7 | 5 | 1 | 102 | 87 | 98 | 98 | 139 |
| 00.6 | S006-W5 | 109 | 5 | 4 | 4 | - | - | 111 | 112 | 102 | 98 | 132 |
| 00.3 | NSC Gladstone RR2Y | 106 | 19 | 5 | 7 | 6 | 2 | 102 | 98 | 93 | 91 | 146 |
| 00.4 | NSC Tilston RR2Y | 105 | 20 | 5 | 7 | 5 | 3 | 96 | 84 | 93 | 89 | 137 |
| 00.5 | Lono R2 | 109 | 14 | 6 | 7 | 5 | 5 | 108 | 106 | 108 | 110 | 130 |
| 00.4 | Hero R2 | 111 | 14 | 6 | 7 | 6 | 4 | 122 | 102 | 108 | 92 | 184 |
| 00.5 | TH 33005R2Y | 105 | 19 | 6 | 7 | 6 | 5 | 100 | 86 | 102 | 89 | 153 |
| 00.6 | P006T46R | 109 | 5 | 6 | 6 | - | - | 115 | 93 | 105 | 96 | 155 |
| 00.6 | HS 006RYS24 | 101 | 15 | 7 | 10 | 6 | 4 | 90 | 91 | 100 | 99 | 144 |
| 00.5 | P005T13R | 94 | 5 | 7 | 7 | - | - | 102 | 68 | 94 | 90 | 130 |
| 00.5 | TAMULA R2 | 107 | 5 | 8 | 8 | - | - | 94 | 107 | 102 | 108 | 132 |
| Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | | | | |
| 000 | CFS16.3.01R2 | 97 | 5 | 0 | 0 | - | - | 104 | 81 | 94 | 96 | 120 |
| 000.9 | EXP 000917 R2 | 92 | 5 | 0 | 0 | - | - | 88 | 75 | 102 | 93 | 98 |
| 00.4 | EXP TH 37004R2Y | 110 | 5 | 7 | 7 | - | - | 125 | 93 | 104 | 96 | 150 |
| 00.2 | LS SOLAIRE | 101 | 5 | 9 | 9 | - | - | 95 | 88 | 99 | 91 | 150 |

CHECK CHARACTERISTICS

| | | | | | | | | | | | | |
|-----------------|---------|------------|------------------|-----|-----|-----|---------------------|--------|--------|--------|--------|--------|
| NSC Reston RR2Y | 52 | 20 | 123 | 123 | 118 | 129 | 44 | 54 | 69 | 66 | 38 | |
| | bu/acre | site years | days to maturity | | | | | | | | | |
| | | | | | | | CV% | 7 | 10 | 5 | 7 | 7 |
| | | | | | | | LSD | 12 | 16 | 7 | 11 | 12 |
| | | | | | | | Sign Diff | Yes | Yes | Yes | Yes | Yes |
| | | | | | | | Seeding Date | 21-May | 17-May | 18-May | 20-May | 18-May |
| | | | | | | | Harvest Date | 15-Oct | 18-Oct | 19-Oct | 12-Oct | 27-Sep |

¹ Maturity based on data from Boissevain, Dauphin, Melita

ROUNDUP READY SOYBEANS

New varieties for 2017

| Variety | Previous Code | Distributor | Variety | Previous Code | Distributor |
|-----------------|---------------|-----------------------------|-----------------|-----------------|-----------------------------|
| HYDRA R2 | CFS13.3.01 R2 | Brett Young | NSC LEROY RR2Y | NSC LEROY RR2Y | Northstar Genetics Manitoba |
| TAMULA R2 | TAMULA R2 | Brett Young | NSC Watson RR2Y | NSC Watson RR2Y | Northstar Genetics Manitoba |
| DS0067Z1 | DS0067Z1 | Dow Seeds | S001-B1 | CW1410087 | Syngenta Canada |
| 24-12RY | 24-12RY | DEKALB | S003-L3 | AR1215503 | Syngenta Canada |
| P005T13R | P005T13R | DuPont Pioneer | S006-W5 | AR1210501 | Syngenta Canada |
| P006T46R | P006T46R | DuPont Pioneer | Torro R2 | PR1418113R2 | Quarry Seed Ltd. |
| NSC Austin RR2Y | AR1310870 | Northstar Genetics Manitoba | Kosmo R2 | PR9010RR2Y.43 | Quarry Seed Ltd. |

CONVENTIONAL SOYBEANS – VARIETY DESCRIPTIONS

| Manitoba Variety Zone | Company Maturity Grouping | Variety | Relative Days to Maturity ¹ + / - of Check | | | | Yield % Check | Site Years Tested | Hilum Colour | Relative Seeds/lb | Lodging ² | IDC ³ | | |
|-----------------------|---|-----------------|--|------|------|------|---------------|-------------------|--------------|-------------------|----------------------|------------------|----------|---|
| | | | Average | 2016 | 2015 | 2014 | | | | | | Rating (1-5) | Grouping | |
| Early Season Zone | 00.3 | AAC Edward | -3 | -4 | -1 | -4 | 103 | 22 | IY | 3122 | 1.3 | 1.8 | ST | |
| | 000.9 | AAC Halli | -2 | -1 | -1 | -3 | 99 | 15 | Y | 2340 | 2.4 | 2.5 | S | |
| | 00.2 | AAC Springfield | -1 | 0 | -1 | -2 | 90 | 15 | Y | 2930 | 1.8 | 1.8 | ST | |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | | | | - | - |
| | 000 | GS 1001 | -6 | -5 | -6 | - | 79 | 9 | CL | 2500 | 1.5 | 2.4 | S | |
| | 000 | SVX17T000S1 | -3 | -3 | - | - | 91 | 3 | IY | 2150 | 1.6 | - | - | |
| Mid-Long Season Zone | 00.3 | OAC Prudence | 0 | 0 | 0 | 0 | 100 | 108 | Y | 2515 | 2.9 | 1.6 | T | |
| | 00.3 | AAC Mandor | 4 | 4 | 2 | 4 | 109 | 35 | Y | 2250 | 1.9 | 2.3 | ST | |
| | 00.5 | OAC Morden | 4 | 4 | 2 | 5 | 106 | 30 | Y | 3077 | 1.5 | 2.0 | ST | |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | | | | | | | | - | - |
| | 00.2 | SVX17T00S13 | 1 | 1 | - | - | 105 | 3 | BF | 2500 | 3.4 | - | - | |
| | 00.5 | OT13-08 | 4 | 5 | 4 | 3 | 105 | 16 | IY | 2340 | 2.0 | 2.6 | S | |
| | 00.3 | SVX16T00S2 | 4 | 4 | 5 | - | 109 | 9 | IY | 2500 | 2.1 | 2.3 | S | |
| | 00.2 | SVX17T00S21 | 5 | 5 | - | - | 117 | 3 | BR | 2150 | 1.0 | - | - | |
| | 00.6 | Bravado | 7 | 7 | - | - | 121 | 4 | CL | 3600 | 2.3 | 2.4 | S | |
| | 00.6 | SR006HP | 7 | 7 | - | - | 103 | 4 | CL | 2650 | 1.8 | 3.3 | S | |
| | 0.1 | JARI | 8 | 10 | 7 | 8 | 108 | 16 | IY | 2236 | 2.1 | 2.2 | ST | |
| | 00.9 | OT13-04 | 9 | 10 | 8 | 9 | 107 | 16 | Y | 2735 | 2.6 | 2.9 | S | |
| | 00.8 | DH404 | 9 | 9 | - | - | 88 | 13 | IY | 2250 | 1.8 | - | - | |
| | 00.6 | DH863 | 9 | 9 | - | - | 92 | 13 | IY | 2250 | 1.9 | - | - | |
| | 00.7 | OAC 11-02C | 10 | 12 | - | 8 | 111 | 11 | Y | 2686 | 2.3 | - | - | |
| | 00.9 | OAC 13-05C | 10 | 10 | - | - | 126 | 7 | IY | 2225 | 1.9 | 3.5 | S | |
| | 0.1 | OT15-02 | 10 | 10 | - | - | 109 | 4 | IY | 1932 | 2.3 | 2.5 | S | |
| | 00.8 | SVX15T00S2 | 11 | 11 | - | - | 99 | 3 | IY | 2000 | 1.9 | - | - | |
| | 00.9 | EXPSR009G | 16 | 16 | - | - | 90 | 4 | CL | 4500 | 2.9 | 2.9 | S | |
| | CHECK CHARACTERISTICS | | | | | | | | | | | | | |
| OAC Prudence | | | 113 | 117 | 108 | 115 | 49 | 108 | | | | | | |
| | | | days to maturity | | | | bu/acre | site years | | | | | | |

¹ Maturity ratings for 2016 are average across Morris, St. Adolphe

² Lodging ratings are average across Morris and St. Adolphe sites

³ Iron Deficiency Chlorosis (IDC) Ratings – 1 = Green, 3 = Interveinal Chlorosis, Groupings – T = Tolerant, ST = Semi-Tolerant, S = Susceptible

EASTERN MANITOBA CONVENTIONAL SOYBEAN TRIALS – YIELD BY LOCATION

| Manitoba Variety Zone | Variety | 2016 Yield: % of OAC Prudence | | | | |
|------------------------|---|-------------------------------|--------|-------------|--------|------------|
| | | Early Sites | | Core Sites | | Late Sites |
| | | Beausejour | Morris | St. Adolphe | Morden | Rosebank |
| Early Season Zone | AAC Edward | 95 | 80 | 100 | - | - |
| | AAC Halli | 122 | 64 | 98 | - | - |
| | AAC Springfield | 96 | 85 | 94 | - | - |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | |
| | GS 1001 | 77 | 78 | 92 | - | - |
| | SVX17T000S1 | 104 | 71 | 101 | - | - |
| Mid-Long Season Zone | OAC Prudence | 100 | 100 | 100 | 100 | 100 |
| | AAC Mandor | 135 | 103 | 114 | - | - |
| | OAC Morden | - | 105 | 113 | 105 | 109 |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | |
| | SVX17T00S13 | 111 | 100 | 106 | - | - |
| | OT13-08 | - | 99 | 107 | 124 | 117 |
| | SVX16T00S2 | 119 | 99 | 105 | - | - |
| | SVX17T00S21 | 115 | 110 | 126 | - | - |
| | Bravado | - | 123 | 116 | 114 | 135 |
| | SR006HP | - | 95 | 109 | 97 | 113 |
| | JARI | - | 98 | 112 | 107 | 123 |
| | OT13-04 | - | 95 | 104 | 112 | 112 |
| | DH404 | 127 | 80 | 107 | - | - |
| | DH863 | 129 | 77 | 113 | - | - |
| | OAC 11-02C | 125 | 109 | 105 | - | - |
| | OAC 13-05C | - | 117 | 113 | 119 | 134 |
| | OT15-02 | - | 105 | 111 | 103 | 117 |
| | SVX15T00S2 | 126 | 68 | 108 | - | - |
| | EXPSR009G | - | 85 | 78 | 89 | 115 |
| | CHECK CHARACTERISTICS | | | | | |
| OAC Prudence (bu/acre) | | 49 | 57 | 54 | 50 | 42 |
| CV% | | 5 | 9 | 6 | 8 | 5 |
| LSD | | 9 | 14 | 9 | 13 | 8 |
| Sign Diff | | Yes | Yes | Yes | Yes | Yes |
| Seeding Date | | 20-May | 24-May | 17-May | 30-May | 24-May |
| Harvest Date | | 14-Oct | 13-Oct | 28-Sep | 03-Oct | 28-Sep |

WESTERN MANITOBA CONVENTIONAL SOYBEAN TRIALS

In 2016, trials were located at Melita

MATURITY & YIELD BY LOCATION

| Manitoba Variety Zone | Company Maturity Grouping | Variety | Hilum Colour | Relative Days to Maturity ¹ + / - of Check | | 2016 Yield % of OAC Prudence |
|------------------------------|---|--------------|--------------|--|-----------|------------------------------|
| | | | | 2016 | Melita | |
| Early Season Zone | 000.9 | AAC Halli | Y | -2 | | 120 |
| | 00.4 | AAC Edward | IY | -1 | | 129 |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | |
| | 000 | PR110530Z041 | IY | -7 | | 81 |
| | 000 | PR100530Z038 | IY | -4 | | 113 |
| Mid-Long Season Zone | 000 | GS1001 | CL | -2 | | 106 |
| | 000 | FJORD | IY | 0 | | 112 |
| | 00.3 | OAC Prudence | Y | 0 | | 100 |
| | 00.3 | AAC MANDOR | Y | 2 | | 156 |
| | 000 | ANSER | IY | 5 | | 128 |
| | 00 | KEBEK | Y | 6 | | 179 |
| | Experimental lines that are being tested / proposed for registration in Canada | | | | | |
| 000 | PR110524Z023 | IY | 2 | | 132 | |
| 000 | PR100370Z006 | IY | 4 | | 102 | |
| CHECK CHARACTERISTICS | | | | 107 | | 29 |
| OAC Prudence | | | | days to maturity | | bu/acre |
| | | | | | CV% | 13 |
| | | | | | LSD | 24 |
| | | | | | Sign Diff | Yes |
| | | | | Seeding Date | | 30-May |
| | | | | Harvest Date | | 01-Oct |

¹ Maturity based on data from Melita

MANITOBA Pulse & Soybean GROWERS

MPSG is proud to support the MCVET pulse and soybean post-registration variety trials.

Working for You

For more information visit www.manitobapulse.ca
or follow us on Twitter [@MBPulseGrowers](https://twitter.com/MBPulseGrowers)

NOTES FOR ALL DRY BEAN TABLES

Yield % Check – This value indicates the average yield across all site years has been tested relative to the check.

Yield (lbs/ac) – Indicates yield from the current year by site. The LSD can be used to compare statistical yield differences between varieties.

Site Years Tested – This value indicates the total number of individual site years that a variety has been tested at. For example, if a variety was tested at five sites in two years, the total site years would be 10. The higher the number, the more environments the variety has been tested in. Typically, a variety is tested in two to five sites per year.

Days to Maturity (DTM) – Number of days to when 90% of plants ready to combine. In Variety Description tables, it is reported as average +/- number of days relative to the check variety across all site years tested.

Plant Height (HT) – Plant height in cm, rated at flowering.

Lodging (LDG) is rated at maturity; 1 = upright, 5 = flat on the ground.

Pod Height (PD HT) is a visual estimated of the % of pods above 5 cm from the ground.

Seed Weight (TKW) – Grams per 1000 seeds.

Common Bacterial Blight Severity (CBB Sever) – Visual rating of individual plants:

- 0 = No observable lesions or other signs of infection
- 1 = < 5% of plant area (leaf and stem-hypocotyls) diseased
- 2 = 5–10% of plant area diseased
- 3 = 10–25% of plant area diseased
- 4 = 25–50% of plant area diseased
- 5 = 50–100% of plant area diseased or death of seedling

Common Bacterial Blight Incidence (CBB Incid) – Visual plot rating of % leaf tissue infected.

White Mould incidence (WM Incid) – Visual plot rating of % of plants affected by Sclerotinia white mould.

Coefficient of Variation (CV) is the statistical measure of random variation in a trial. A CV less than 15% generally indicates a uniform trial and conclusive data.

Least Significant Difference (LSD) is the numerical value that two varieties must differ before it can be said with 95% confidence that a true yield difference exists.

VARIETY RELEASE PROGRAM

The Variety Release Program (VRP) is a seed distribution program managed by the Saskatchewan Pulse Growers (SPG) where Select Status seed growers can access Breeder seed of new varieties developed by plant breeders at the Crop Development Centre (CDC) at the University of Saskatchewan.

The program's purpose is to facilitate rapid uptake and acceptance of new and improved pulse varieties. Any Canadian Seed Grower Association (CSGA) certified Select Status seed grower whose provincial pulse grower organization has an agreement with SPG is eligible to apply for Breeder seed through this program.

Manitoba Pulse and Soybean Growers (MPSG) will subscribe to the VRP in 2017.

Manitoba Select seed growers who are members in good standing with MPSG have the opportunity to purchase Breeder pea (yellow, green, maple, forage) and faba bean seed from CDC. Manitoba seed growers who request a refund of their levy submitted to MPSG are unable to participate in the VRP.

Applications will be sent to eligible CSGA Select Status seed growers for 2017 seed allocations in January.

-----► For more information, contact Laryssa Grenkow (MPSG) at laryssa@manitobapulse.ca or 204.745.6488 ext. 6



UNIVERSITY OF SASKACHWAN
Crop Development Centre
COLLEGE OF AGRICULTURE AND BIORESOURCES
AGBIO.USASK.CA



WIDE ROW DRY BEAN TRIALS – SMALL SEED SIZE – YIELD BY LOCATION

| MARKET CLASS/Variety | Days to Maturity | Yield (lbs/ac) | | |
|---------------------------|------------------|----------------|-------------|-------------|
| | | Carman | Morden | Winkler |
| BLACK | | | | |
| Eclipse | 92 | – | 2811 | 2403 |
| 13489 | 88 | – | 2862 | 2737 |
| CDC Blackstrap | 84 | – | 2178 | 1996 |
| CDC Jet | 89 | – | 2272 | 1643 |
| CDC SuperJet | 88 | – | 2399 | 1713 |
| Mean | 88 | – | 2504 | 2099 |
| NAVY | | | | |
| Envoy | 90 | – | 1323 | 1869 |
| DS105W0 | 95 | – | 2326 | 2053 |
| Fathom | 94 | – | 2594 | 2282 |
| GNS 2884-4 | 97 | – | 1904 | 1999 |
| Indi | 92 | – | 2457 | 2191 |
| Lightning | 90 | – | 1951 | 1650 |
| NA196 | 95 | – | 2628 | 2442 |
| Nautica | 94 | – | 2415 | 2286 |
| Portage | 90 | – | 2741 | 1194 |
| SV1893GH | 97 | – | 1672 | 1707 |
| T9903 | 94 | – | 3192 | 2533 |
| T9905 | 93 | – | 2310 | 2243 |
| Mean | 93 | – | 2293 | 2037 |
| Overall Trial Mean | 92 | – | 2355 | 2055 |
| CV% | | – | 8 | 13 |
| LSD | | – | 302 | 452 |
| Seeding Date | | | 30-May | 06-Jun |
| Harvest Date | | | 13-Sep | 23-Sep |

SMALL SEED SIZE – VARIETY DESCRIPTIONS

| MARKET CLASS/Variety | Yield | Site Years Tested | Days to Maturity | 3-Year Average | | | | | | |
|------------------------------|--------|---------------------|-------------------|----------------|-----------|--------------|-------|---------------|-------------|------------|
| | | | | HT cm | LDG (1–5) | PD HT % >5cm | TKW g | CBB Sever 0–5 | CBB Incid % | WM Incid % |
| BLACK | | % of Eclipse | +/-Eclipse | | | | | | | |
| Eclipse | 100 | 31 | 0 | 53 | 1 | 83 | 190 | 2 | 7 | 0 |
| 13489 | 107 | 2 | 1 | 48 | 2 | 85 | 204 | 2 | 6 | 2 |
| CDC Blackstrap | 81 | 5 | -5 | 44 | 1 | 86 | 211 | 2 | 4 | 1 |
| CDC Jet | 88 | 31 | -3 | 48 | 1 | 82 | 199 | 2 | 7 | 1 |
| CDC SuperJet | 86 | 19 | 0 | 46 | 1 | 81 | 195 | 2 | 7 | 1 |
| NAVY | | % of Envoy | +/-Envoy | | | | | | | |
| Envoy | 100 | 66 | 0 | 42 | 2 | 79 | 194 | 2 | 18 | 1 |
| DS105W0 | 134 | 5 | 6 | 52 | 2 | 76 | 204 | 2 | 20 | 0 |
| Fathom | 133 | 5 | 3 | 53 | 2 | 86 | 208 | 2 | 6 | 1 |
| GNS 2884-4 | 113 | 5 | 8 | 53 | 2 | 86 | 223 | 2 | 12 | 3 |
| Indi | 129 | 14 | 2 | 54 | 1 | 87 | 172 | 2 | 6 | 0 |
| Lightning | 119 | 26 | 1 | 51 | 1 | 76 | 194 | 2 | 14 | 0 |
| NA196 | 159 | 2 | 0 | 53 | 3 | 78 | 194 | 2 | 8 | 2 |
| Nautica | 124 | 6 | 4 | 49 | 1 | 87 | 165 | 2 | 9 | 0 |
| Portage | 120 | 22 | 1 | 44 | 1 | 81 | 193 | 2 | 10 | 0 |
| SV1893GH | 115 | 9 | 4 | 49 | 1 | 80 | 212 | 2 | 8 | 1 |
| T9903 | 119 | 42 | 1 | 52 | 1 | 81 | 210 | 2 | 9 | 0 |
| T9905 | 132 | 22 | 4 | 54 | 2 | 81 | 203 | 2 | 12 | 2 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Eclipse – Black | 2382 | 31 | 100 | | | | | | | |
| Envoy – Navy | 2008 | 66 | 100 | | | | | | | |
| | lbs/ac | site years | days to maturity | | | | | | | |

WIDE ROW DRY BEAN TRIALS – MEDIUM SEED SIZE – YIELD BY LOCATION

| MARKET CLASS/Variety | Days to Maturity | Yield (lbs/ac) | | |
|---------------------------|------------------|----------------|-------------|-------------|
| | | Carman | Morden | Winkler |
| PINK | | | | |
| GNS 13-796 | 95 | 2769 | 2319 | 2726 |
| Pink Floyd | 91 | 1929 | 2151 | 3217 |
| Rosetta | 98 | 3348 | 2835 | 2463 |
| Mean | 95 | 2682 | 2435 | 2802 |
| PINTO | | | | |
| 11278 | 93 | 3548 | 2614 | 3238 |
| CDC WM-2 | 95 | 1852 | 1839 | 2129 |
| DCL-2016 | 91 | 3317 | 2775 | 2707 |
| El-Diablo FU | 91 | 2759 | – | 2845 |
| GNS 1173-1 | 93 | 2228 | 2173 | 2361 |
| GNS 12-11 | 97 | 1965 | 1372 | 2177 |
| GNS 12-441 | 90 | 2419 | 1943 | 2333 |
| GNS 1259-60 | 94 | 1829 | 1216 | 2092 |
| GTS 907 | 90 | 3240 | – | 2607 |
| Monterrey | 95 | 3577 | 2720 | 3092 |
| Radiant 12324 | 91 | 3104 | 2353 | 3053 |
| SV6139GR | 90 | 3404 | 2790 | 2711 |
| Torreon | 93 | 3111 | 2737 | 2779 |
| Vibrant | 93 | 3145 | 2616 | 2773 |
| Windbreaker | 92 | 3303 | 2803 | 2854 |
| Mean | 92 | 2853 | 2304 | 2650 |
| YELLOW | | | | |
| CDC Sol | 89 | 1482 | 1228 | 1595 |
| Overall Trial Mean | 93 | 2754 | 2264 | 2619 |
| CV% | | 9 | 9 | 7 |
| LSD | | 415 | 346 | 322 |
| Seeding Date | | 30-May | 30-May | 06-Jun |
| Harvest Date | | 28-Sep | 13-Sep | 23-Sep |

MEDIUM SEED SIZE – VARIETY DESCRIPTIONS

| MARKET CLASS/Variety | Yield | Site Years Tested | Days to Maturity | 3-Year Average | | | | | | |
|------------------------------|-------------|-------------------|---------------------|----------------|-----------|--------------|-------|---------------|-------------|------------|
| | | | | HT cm | LDG (1–5) | PD HT % >5cm | TKW g | CBB Sever 0–5 | CBB Incid % | WM Incid % |
| PINK | | % of Windbreaker | +/-Windbreaker | | | | | | | |
| GNS 13-796 | 86 | 6 | 3 | 59 | 2.7 | 81 | 360 | 2 | 7 | 1 |
| Pink Floyd | 91 | 19 | -4 | 48 | 2.7 | 78 | 343 | 3 | 17 | 7 |
| Rosetta | 104 | 7 | 6 | 54 | 1.7 | 78 | 346 | 2 | 8 | 1 |
| PINTO | | % of Windbreaker | +/-Windbreaker | | | | | | | |
| Windbreaker | 100 | 45 | 0 | 52 | 2.7 | 66 | 272 | 2 | 10 | 1 |
| 11278 | 104 | 6 | -1 | 64 | 2.7 | 73 | 362 | 2 | 11 | 3 |
| CDC WM-2 | 80 | 15 | -2 | 51 | 2.3 | 74 | 365 | 2 | 11 | 3 |
| DCL-2016 | 98 | 3 | 1 | 56 | 2.7 | 80 | 399 | 2 | 9 | 5 |
| El-Diablo FU | 92 | 5 | -1 | 50 | 2.0 | 86 | 389 | 2 | 4 | 0 |
| GNS 1173-1 | 79 | 6 | 0 | 54 | 2.3 | 76 | 424 | 2 | 12 | 1 |
| GNS 12-11 | 62 | 3 | -8 | 44 | 3.0 | 79 | 399 | 3 | 18 | 4 |
| GNS 12-441 | 80 | 6 | 1 | 52 | 2.5 | 75 | 372 | 2 | 13 | 4 |
| GNS 1259-60 | 67 | 6 | -3 | 48 | 3.0 | 71 | 396 | 2 | 16 | 4 |
| GTS 907 | 100 | 15 | 0 | 54 | 1.0 | 89 | 385 | 2 | 9 | 1 |
| Monterrey | 104 | 10 | 2 | 52 | 2.0 | 82 | 361 | 2 | 9 | 4 |
| Radiant 12324 | 95 | 3 | -3 | 57 | 2.7 | 85 | 347 | 2 | 13 | 13 |
| SV6139GR | 100 | 15 | -3 | 54 | 1.3 | 78 | 341 | 2 | 11 | 2 |
| Torreon | 96 | 6 | 0 | 55 | 2.2 | 79 | 355 | 2 | 9 | 2 |
| Vibrant | 99 | 6 | -1 | 60 | 2.2 | 83 | 357 | 2 | 11 | 6 |
| YELLOW | | % of Windbreaker | +/-Windbreaker | | | | | | | |
| CDC Sol | 74 | 21 | 2 | 43 | 1.7 | 72 | 409 | 2 | 16 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Windbreaker – Pinto | 2645 lbs/ac | 45 site years | 97 days to maturity | | | | | | | |

WIDE ROW DRY BEAN TRIALS – LARGE SEED SIZE – YIELD BY LOCATION

| MARKET CLASS/Variety | Days to Maturity | Yield (lbs/ac) | | |
|---------------------------|------------------|----------------|-------------|-------------|
| | | Carman | Morden | Winkler |
| CRANBERRY | | | | |
| Cran 09 | 90 | – | 736 | 1035 |
| CR312-8 | 93 | – | 1340 | 1047 |
| CR318-6 | 98 | – | 1369 | 1582 |
| Etna | 93 | – | 842 | 974 |
| Krimson | 97 | – | 1326 | 1191 |
| Mean | 87 | | 1123 | 1166 |
| LIGHT RED KIDNEY | | | | |
| Pink Panther | 96 | – | 1606 | 1140 |
| 09357 | 88 | – | 1524 | 1254 |
| 09363 | 89 | – | 1494 | 903 |
| 09378 | 94 | – | 1650 | 1305 |
| Big Red | 94 | – | 1639 | 1102 |
| Clouseau | 96 | – | 1513 | 967 |
| Mean | 93 | – | 1571 | 1112 |
| GREAT NORTHERN | | | | |
| Aries | 97 | – | 2389 | 2340 |
| Overall Trial Mean | 92 | – | 1452 | 1237 |
| CV% | | – | 13 | 12 |
| LSD | | – | 322 | 264 |
| Seeding Date | | | 30-May | 06-Jun |
| Harvest Date | | | 13-Sep | 23-Sep |

LARGE SEED SIZE – VARIETY DESCRIPTIONS

| MARKET CLASS/Variety | Yield | Site Years Tested | Days to Maturity | 3-Year Average | | | | | | |
|---------------------------------|--------|-------------------|------------------|----------------|-----------|--------------|-------|---------------|-------------|------------|
| | | | | HT cm | LDG (1–5) | PD HT % >5cm | TKW g | CBB Sever 0–5 | CBB Incid % | WM Incid % |
| CRANBERRY | | % of Cran 09 | +/-Cran 09 | | | | | | | |
| Cran 09 | 100 | 55 | 0 | 45 | 2 | 71 | 455 | 2 | 43 | 1 |
| CR312-8 | 135 | 2 | 3 | 44 | 1 | 74 | 492 | 2 | 32 | 1 |
| CR318-6 | 112 | 6 | 5 | 47 | 1 | 76 | 502 | 2 | 24 | 0 |
| Etna | 99 | 47 | 2 | 45 | 1 | 73 | 490 | 3 | 40 | 0 |
| Krimson | 91 | 10 | 4 | 47 | 1 | 66 | 523 | 2 | 27 | 1 |
| LIGHT RED KIDNEY | | % of Pink Panther | +/-Pink Panther | | | | | | | |
| Pink Panther | 100 | 45 | 0 | 47 | 1 | 72 | 524 | 2 | 38 | 0 |
| 09357 | 100 | 9 | -4 | 47 | 1 | 73 | 526 | 2 | 37 | 1 |
| 09363 | 87 | 2 | -2 | 45 | 1 | 76 | 505 | 3 | 30 | 1 |
| 09378 | 95 | 9 | -3 | 45 | 1 | 66 | 539 | 2 | 35 | 0 |
| Big Red | 101 | 13 | -2 | 46 | 1 | 73 | 510 | 2 | 28 | 1 |
| Clouseau | 98 | 14 | 0 | 48 | 1 | 73 | 515 | 2 | 40 | 1 |
| GREAT NORTHERN | | % of Pink Panther | +/-Pink Panther | | | | | | | |
| Aries | 139 | 8 | 1 | 56 | 2 | 77 | 354 | 2 | 25 | 1 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Cran 09 – Cranberry | 1853 | 55 | 99 | | | | | | | |
| Pink Panther – Light Red Kidney | 1946 | 45 | 100 | | | | | | | |
| | lbs/ac | site years | days to maturity | | | | | | | |

NARROW ROW DRY BEAN TRIALS – VARIETY DESCRIPTIONS & YIELD BY LOCATION

| Variety | Bean Class | Yield | Site Years Tested | Days to Maturity ¹ | Plant Type ² | 3-Year Average | | Morden | Stonewall | |
|--|------------|---------------|-------------------|-------------------------------|-------------------------|-----------------|------------|---------------------------|-------------|-------------|
| | | | | | | PD HT % >5cm | LDG 1-5 | Yield (lbs/ac) | | |
| SMALL SEEDED TYPES | | % Envoy | | +/- Envoy | | | | | | |
| Envoy | Navy | 100 | 46 | 0 | I | 47 | 2 | 3146 | 1705 | |
| 3458-7 | Navy | 106 | 10 | -2 | II | 44 | 1 | 3571 | 1805 | |
| 2918-25 | Navy | 122 | 11 | -3 | II | 60 | 1 | 3661 | 2518 | |
| Bolt | Navy | 104 | 4 | 2 | II | 53 | 2 | 3736 | 2091 | |
| Lightning | Navy | 106 | 12 | 2 | II | 56 | 1 | 3004 | 1876 | |
| Portage | Navy | 94 | 13 | 3 | II | 44 | 1 | 3780 | 2076 | |
| DS105W0 | Navy | 98 | 2 | 7 | II | 52 | 2 | 3475 | 1632 | |
| SV1893GH | Navy | 113 | 2 | 9 | II | 42 | 2 | 3110 | 2788 | |
| Fathom | Navy | 114 | 2 | 6 | II | 47 | 1 | 3951 | 2009 | |
| Nautica | Navy | 118 | 2 | 9 | II | 65 | 1 | 4157 | 2022 | |
| T9905 | Navy | 98 | 2 | 6 | II | 53 | 2 | 3539 | 1594 | |
| T9903 | Navy | 108 | 9 | 3 | II | 42 | 2 | 3984 | 2637 | |
| NA6-27-2 | Navy | 113 | 2 | 5 | II | 52 | 1 | 4094 | 1803 | |
| | | | | | | | | Mean | 3631 | 2043 |
| CDC Blackstrap | Black | 119 | 13 | 1 | II | 46 | 1 | 2946 | 2174 | |
| CDC Jet | Black | 107 | 37 | 2 | II | 57 | 1 | 3539 | 1654 | |
| CDC SuperJet | Black | 114 | 16 | 1 | II | 55 | 1 | 3986 | 2410 | |
| | | | | | | | | Mean | 3491 | 2079 |
| LARGE SEEDED TYPES | | % CDC Pintium | | +/- CDC Pintium | | | | | | |
| CDC Pintium | Pinto | 100 | 46 | 0 | I | 52 | 1 | 2275 | 2095 | |
| AC Island | Pinto | 118 | 10 | 2 | II | 46 | 2 | 3907 | 1857 | |
| CDC Marmot | Pinto | 113 | 16 | 1 | I | 45 | 2 | 2837 | 1655 | |
| CDC WM-2 | Pinto | 119 | 18 | 4 | II | 40 | 2 | 3961 | 2013 | |
| Medicine Hat | Pinto | 110 | 10 | 5 | II | 49 | 1 | 3636 | 2121 | |
| SV6139GR | Pinto | 176 | 2 | 1 | II | 60 | 1 | – | 3039 | |
| SV6533GR | Pinto | 159 | 2 | 0 | II | 48 | 1 | – | 3132 | |
| | | | | | | | | Overall Trial Mean | 3538 | 2118 |
| | | | | | | | | CV% | 8 | 14 |
| | | | | | | | | LSD | 463 | 474 |
| | | | | | | | | Sign Diff | Yes | Yes |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Envoy – <i>small seeded type</i> | | 1961 | 46 | 100 | | | | | | |
| CDD Pintium – <i>large seeded type</i> | | 2075 | 46 | 96 | | | | | | |
| | | lbs/ac | site years | days to maturity | | | | | | |

¹ Maturity data provided to compare relative differences among varieties – actual maturity will vary depending on seasonal growing conditions.

² Growth Habit: I – determinate bush, II – indeterminate bush, III – indeterminate vine

LENTILS

The lentil variety trial is coordinated with the Saskatchewan Regional Variety testing program, therefore the seed source is the same as used in Saskatchewan trials.

The lentil variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse & Soybean Growers.

Clearfield lentils are tolerant to the herbicide Odyssey. These varieties are easily identified by the "CL" designation at the end of the name.

VARIETY DESCRIPTIONS & YIELD BY LOCATION

| MARKET CLASS/Variety | Yield % Check | Site Years Tested | Maturity Rating ¹ | Resistance Level | | Seed Wt (TKW) | Cotyledon Colour | 2016 Yield: % of CDC Maxim | |
|------------------------------|---------------|-------------------|------------------------------|------------------|----------------------|---------------|--------------------|----------------------------|--|
| | | | | Ascochyta Blight | Anthraco-nose Race 1 | | | Hamiota | |
| SMALL GREEN | | | | | | | | | |
| CDC Asterix | 91 | 6 | Early | G | F | 26 | Yellow | 74 | |
| CDC Invincible Cl | 80 | 15 | Early | G | G | 35 | Yellow | 99 | |
| CDC Milestone | 80 | 10 | Early | G | VP | 37 | Yellow | - | |
| Eston | 82 | 7 | Early | VP | VP | 33 | Yellow | - | |
| MEDIUM GREEN | | | | | | | | | |
| CDC Imigreen CL | 63 | 11 | Medium | G | F | 63 | Yellow | - | |
| CDC Impress CL | 68 | 11 | Medium | G | P | 52 | Yellow | - | |
| CDC Richlea | 76 | 7 | Medium | VP | VP | 51 | Yellow | - | |
| LARGE GREEN | | | | | | | | | |
| CDC Greenland | 63 | 10 | Med/Late | G | VP | 64 | Yellow | - | |
| CDC Greenstar | 88 | 4 | Med/Late | G | F | 73 | Yellow | 58 | |
| CDC Impower Cl | 65 | 9 | Medium | G | P | 74 | Yellow | 50 | |
| CDC Improve CL | 70 | 11 | Medium | F | VP | 67 | Yellow | - | |
| CDC Plato | 61 | 11 | Med/Late | G | P | 62 | Yellow | - | |
| Laird | 54 | 7 | Very Late | VP | VP | 67 | Yellow | - | |
| FRENCH GREEN | | | | | | | | | |
| CDC Peridot CL | 78 | 11 | Early | G | P | 40 | Yellow | - | |
| CDC Marble | 105 | 6 | Early/Med | F | G | 32 | Yellow | 67 | |
| CDC QG-2 | 80 | 4 | Early/Med | F | G | 33 | Yellow | 59 | |
| EXTRA SMALL RED | | | | | | | | | |
| CDC Robin | 78 | 10 | Early | G | G | 30 | Red | - | |
| CDC Impala CL | 81 | 11 | Early | G | G | 31 | Red | - | |
| CDC Imperial CL | 77 | 11 | Early | G | G | 30 | Red | - | |
| CDC Redbow | 84 | 8 | Early/Med | G | G | 42 | Red | - | |
| CDC Rosebud | 87 | 10 | Early | G | G | 29 | Red | - | |
| CDC Rosie | 87 | 6 | Early/Med | G | G | 30 | Red | 74 | |
| CDC Rosetown | 88 | 11 | Early | G | G | 31 | Red | - | |
| CDC Ruby | 92 | 2 | Early | G | G | 29 | Red | - | |
| SMALL RED | | | | | | | | | |
| CDC Dazil | 96 | 7 | Early/Med | G | F | 35 | Red | 72 | |
| CDC Imax CL | 82 | 15 | Medium | G | G | 50 | Red | 82 | |
| CDC Impact CL | 78 | 10 | Early | G | P | 34 | Red | - | |
| CDC Maxim CL | 100 | 17 | Early/Med | G | G | 40 | Red | 100 | |
| CDC Red Rider | 83 | 2 | Early/Med | G | F | 45 | Red | - | |
| CDC Redberry | 97 | 11 | Early/Med | G | G | 42 | Red | - | |
| CDC Redcoat | 78 | 8 | Early | G | G | 40 | Red | - | |
| CDC Proclaim CL | 81 | 1 | Early/Med | G | G | 40 | Red | 81 | |
| CDC Redmoon | 112 | 1 | Early/Med | G | G | 41 | Red | 112 | |
| CDC Scarlet | 104 | 6 | Early/Med | G | F | 36 | Red | 97 | |
| LARGE RED | | | | | | | | | |
| CDC-KR I | 79 | 12 | Medium | G | G | 56 | Red | 71 | |
| CHECK CHARACTERISTICS | | | | | | | CDC Maxim (lbs/ac) | | |
| CDC Maxim | 3177 lbs/ac | 17 site years | | | | | CV% | 1997 | |
| | | | | | | | LSD | 14 | |
| | | | | | | | Sign Diff | 24 | |
| | | | | | | | | Yes | |

¹ Ratings determined in Saskatchewan and may not be accurate under wetter growing conditions present in Manitoba.

Seeding Date 09-May
Harvest Date 16-Sep

FIELD PEAS

The Field Pea variety trial is coordinated with the Saskatchewan Regional Variety testing program, therefore the seed source is the same as used in Saskatchewan trials.

New varieties for 2017

| Variety | Code | Breeder | Distributor | Seed Availability |
|------------|--------|--------------|----------------|-------------------|
| AAC Carver | MP1920 | AAFC Lacombe | Canterra Seeds | 2016 |

VARIETY DESCRIPTIONS

| MARKET CLASS/Variety | Site Years Tested | Yield (bu/acre) | Relative Maturity | Relative Vine Length | Seed Size (TSW) | Resistance Level | | | | | | | |
|------------------------|-------------------|-----------------|-------------------|----------------------|-----------------|-------------------------------|---------|----------------|-----------------------|----------------------------|-----------|--------------------|---------------------------------|
| | | | | | | Green Seed Coats ¹ | Lodging | Powdery Mildew | Mycosphaerella blight | Fusarium Wilt ² | Bleaching | Seed Coat Breakage | Seed Coat Dimpling ³ |
| YELLOW | | | | | | | | | | | | | |
| AAC Ardill | 10 | 70 | M | M | 240 | n/a | G | VG | F | G | n/a | G | n/a |
| AAC Carver | 4 | 73 | M | L | 240 | n/a | G | VG | F | F | n/a | G | n/a |
| AAC Lacombe | 8 | 71 | M | L | 270 | F | G | VG | F | F | n/a | G | G |
| Abarth | 10 | 72 | E | M | 280 | G | VG | VG | F | F | n/a | F | G |
| AC Earllystar | 6 | 71 | E | M | 210 | G | G | VG | F | F | n/a | F | G |
| Agassiz | 47 | 73 | M | M | 230 | G | G | VG | F | F | n/a | G | F |
| Argus | 14 | 68 | M | M | 230 | G | G | VG | F | F | n/a | F | F |
| CDC Amarillo | 10 | 73 | M | M | 230 | G | VG | VG | F | G | n/a | F | F |
| CDC Centennial | 20 | 72 | E | S | 270 | F | F | VG | F | F | n/a | G | G |
| CDC Golden | 52 | 67 | M | M | 230 | G | G | VG | F | F | n/a | G | G |
| CDC Hornet | 30 | 69 | M | M | 220 | G | G | VG | F | F | n/a | F | G |
| CDC Inca | 8 | 75 | M | L | 230 | F | G | VG | F | F | n/a | G | G |
| CDC Meadow | 60 | 72 | E | M | 220 | G | G | VG | F | F | n/a | G | G |
| CDC Saffron | 24 | 72 | M | M | 250 | G | G | VG | F | F | n/a | G | F |
| CDC Treasure | 37 | 69 | E | M | 210 | G | G | VG | F | G | n/a | F | F |
| Cutlass | 65 | 67 | M* | M* | 220 | G | G | VG | F | F | n/a | F | F |
| Polstead | 35 | 69 | M | M | 280 | F | G | VG | P | P | n/a | F | F |
| Reward | 20 | 70 | M | L | 240 | F | G | VG | F | F | n/a | G | G |
| SW MIDAS | 29 | 69 | E | M | 220 | G | G | VG | F | F | n/a | G | G |
| GREEN | | | | | | | | | | | | | |
| AAC Radius | 10 | 61 | M | M | 230 | n/a | G | VG | F | G | VG | VG | G |
| AAC Royce | 8 | 69 | M | M | 250 | n/a | F | VG | F | F | G | G | n/a |
| CDC Greenwater | 10 | 71 | L | M | 220 | n/a | G | VG | F | G | G | VG | G |
| CDC Limerick | 10 | 70 | L | M | 210 | n/a | VG | VG | F | F | G | VG | G |
| CDC Patrick | 46 | 66 | M | M | 190 | n/a | G | VG | F | G | G | G | G |
| CDC Raezer | 11 | 66 | M | M | 220 | n/a | VG | VG | F | G | G | G | G |
| CDC Striker | 65 | 65 | M | M | 230 | n/a | VG | P | F | G | G | VG | G |
| CDC Tetris | 25 | 68 | L | M | 210 | n/a | G | VG | F | G | G | G | G |
| COOPER | 47 | 68 | L | M | 270 | n/a | G | VG | F | F | G | F | G |
| OTHER PEA TYPES | | | | | | | | | | | | | |
| CDC Dakota (Dun) | 19 | 75 | M | M | 205 | n/a | VG | VG | F | n/a | n/a | G | VG |
| CDC Horizon (Silage) | 17 | 62 | M | L | 170 | G | G | VG | F | n/a | n/a | G | G |
| CDC Leroy (Silage) | 20 | 61 | M | L | 150 | G | F | VG | F | n/a | n/a | G | G |
| CDC Mosaic (Maple) | 17 | 59 | L | M | 180 | n/a | G | VG | F | n/a | n/a | G | VG |
| CDC Rocket (Maple) | 19 | 63 | M | M | 210 | n/a | F | VG | F | n/a | n/a | G | VG |
| CDC Tucker (Silage) | 21 | 63 | M | L | 170 | F | G | VG | F | n/a | n/a | G | G |
| Stella (Silage) | 14 | 57 | L | L | 220 | n/a | G | VG | F | n/a | n/a | G | n/a |
| Overall Mean | 64 | | | | | | | | | | | | |
| LSD | 4 | | | | | | | | | | | | |

¹ Green seed coats: G = 0–10%; F = 11–25%

² Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains.

³ Seed coat dimpling rating: VG = 0–5%; G = 6–20%; F = 21–50%

*The relative maturity of the variety Cutlass is 99 days (Medium). Please add 3–4 days for each rating beyond Medium. The relative vine length for Cutlass is 34 inches (Medium).

YIELD BY LOCATION – FIELD PEAS

2016 Yield (bu/acre)

| MARKET CLASS/Variety | Arborg | Hamiota | Melita | Morden |
|-------------------------------|-----------|-----------|-----------|-----------|
| YELLOW | | | | |
| AAC Ardill | 41 | 42 | 69 | 47 |
| AAC Carver 91 | 41 | 46 | 74 | 50 |
| AAC Lacombe | 35 | 42 | 68 | 56 |
| Abarth | 38 | 54 | 69 | 51 |
| Agassiz | 43 | 46 | 60 | 46 |
| CDC Amarillo | 42 | 44 | 64 | 47 |
| CDC Golden | 38 | 35 | 57 | 48 |
| CDC Inca | 42 | 48 | 58 | 58 |
| CDC Meadow | 39 | 43 | 65 | 43 |
| CDC Saffron | 46 | 43 | 68 | 51 |
| GREEN | | | | |
| AAC Radius | 36 | 44 | 45 | 36 |
| AAC Royce | 42 | 45 | 64 | 44 |
| CDC Greenwater | 41 | 34 | 61 | 50 |
| CDC Limerick | 40 | 37 | 59 | 52 |
| CDC Patrick | 39 | 35 | 52 | 41 |
| CDC Striker | 34 | 48 | 68 | 48 |
| Overall Mean (bu/acre) | 40 | 43 | 63 | 48 |
| CV% | 11 | 9 | 6 | 8 |
| LSD | 8 | 6 | 9 | 7 |
| Sign Diff | No | Yes | Yes | Yes |
| Seeding Date | 10-May | 09-May | 02-May | 02-May |
| Harvest Date | 18-Aug | 31-Aug | 10-Aug | 17-Aug |

FABA BEANS

The faba bean variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse & Soybean Growers.

Traditionally, tannin faba bean with tan-coloured seed coats and coloured flowers contain tannins and can't be fed directly to livestock. Zero tannin faba beans have white seed coats and flowers and can be fed directly to livestock.

VARIETY DESCRIPTIONS & YIELD BY LOCATION

| MARKET CLASS/Variety | Yield (lbs/ac) | Site Years Tested | Seed Size TKW (g) | Maturity* (days) | 2016 Yield% Check Variety | |
|-----------------------------------|----------------|-------------------|----------------------|------------------|---------------------------|--------|
| | | | | | Arborg | |
| Coloured Flower (Tannins) | | | | | | |
| CDC Fatima | 4032 | 34 | 520 | 105 | 100 | – |
| CDC SSNS-1 | 5579 | 11 | 335 | 105 | – | – |
| Florent | 5196 | 8 | 660 | 107 | – | – |
| Taboar | 4689 | 13 | 480 | 107 | – | – |
| Fabelle | 5118 | 1 | 533 | 105 | 107 | – |
| CHECK CHARACTERISTICS | | | | | | |
| CDC Fatima (tannin) | 4032 | 34 | | | CDC Fatima (lbs/ac) | 4779 |
| | | | | | CV% | 6 |
| | | | | | LSD | 10 |
| | | | | | Sign Diff | Yes |
| White Flower (Zero Tannin) | | | | | | |
| Snowbird | 5246 | 13 | 495 | 104 | 100 | 100 |
| CDC Snowdrop | 5028 | 10 | 335 | 104 | 81 | 95 |
| Tabasco | 5152 | 8 | 530 | 106 | – | 96 |
| CHECK CHARACTERISTICS | | | | | | |
| Snowbird (zero Tannin) | 5028 | 10 | | | Snowbird (lbs/ac) | 4033 |
| | | | | | CV% | 9 |
| | | | | | LSD | 15 |
| | | | | | Sign Diff | Yes |
| | | | | | Seeding Date | 10-May |
| | | | | | Harvest Date | 16-Sep |

* Maturity ratings are based on days until swathing, but will vary depending on seeding date

MANITOBA PULSE & SOYBEAN BUYER LIST – NOVEMBER 2016

| COMPANY | EDIBLE BEANS | FABA BEANS | LENTILS | PEAS | SOYBEANS | PHONE | LOCATION | CGC REGULATED |
|---|--------------|------------|---------|------|----------|---|------------------------|---------------|
| Agassiz Global Trading | ✓ | | | | ✓ | 204-745-6655 | Homewood, MB | |
| Agri-Tel Grain Ltd. | | | | ✓ | ✓ | 204-268-1415 | Beausejour, MB | ✓ |
| AGT Foods | ✓ | | ✓ | ✓ | ✓ | 306-525-4490 | Regina, SK | ✓ |
| • SaskCan Pulse Trading – Parent Division | ✓ | | ✓ | ✓ | ✓ | 204-737-2625 | St. Joseph, MB | ✓ |
| All Commodities | | | ✓ | ✓ | | 204-339-8001 | Winnipeg, MB | ✓ |
| B.P. & Sons Grain and Storage Inc. | | | | | ✓ | 204-822-4815 | Morden, MB | ✓ |
| Belle Pulses Ltd. | | | | ✓ | | 306-423-5202 | Bellevue, SK | ✓ |
| Besco Grain Ltd. | ✓ | ✓ | ✓ | ✓ | ✓ | 204-745-3662 | Carman, MB | ✓ |
| Best Cooking Pulses Inc. | | | ✓ | ✓ | | 204-857-4451 | Portage la Prairie, MB | ✓ |
| Brett-Young Seeds | | | | ✓ | ✓ | 204-261-7932 | Winnipeg, MB | |
| BroadGrain Commodities Inc. | ✓ | ✓ | ✓ | ✓ | ✓ | 416-504-0070 | Toronto, ON | ✓ |
| C.B. Constantini | | | | ✓ | | 604-669-1212 | Vancouver, BC | ✓ |
| Canadian Grain Inc. | ✓ | ✓ | ✓ | ✓ | ✓ | 905-257-6200 | Oakville, ON | ✓ |
| Cargill Ltd. | | | | ✓ | ✓ | 204-947-6219 | Winnipeg, MB | ✓ |
| Delmar Commodities | | | | ✓ | ✓ | 204-331-3696 | Winkler, MB | ✓ |
| Farmer Direct Co-operative Ltd. | ✓ | ✓ | ✓ | ✓ | | 306-352-2444 | Regina, SK | |
| Fill-More Seeds Inc. | | | ✓ | ✓ | | 306-722-3353 | Filmore, SK | ✓ |
| G3 Canada Limited | | | | ✓ | | 204-983-0239 | Winnipeg, MB | ✓ |
| Gavilon Grain LLC | | | | | ✓ | 816-584-2210 | Omaha, NB | ✓ |
| Global Grain Canada | ✓ | | | | | 204-829-3641 | Plum Coulee, MB | ✓ |
| Hensall District Co-op | ✓ | | | | | 204-295-3938 | Winnipeg, MB | ✓ |
| Horizon Agro | | | | | ✓ | 204-746-2026 | Morris, MB | |
| ILTA Grain Inc. | ✓ | ✓ | ✓ | ✓ | ✓ | 604-597-5060 | Surrey, BC | ✓ |
| J.K. Milling Canada Ltd. | | | | ✓ | | 306-586-6111 | Regina, SK | ✓ |
| Knight Seeds | | | ✓ | ✓ | | 204-764-2450 | Hamiota, MB | |
| Kalshea Commodities Inc. | | | | ✓ | | 204-272-3773 | Winnipeg, MB | ✓ |
| Lansing Olam Canada Commodities ULC | | | | | ✓ | 877-747-7599 | Chatum, ON | ✓ |
| Linear Grain | ✓ | | | ✓ | ✓ | 204-745-6747 | Carman, MB | ✓ |
| Louis Dreyfus Company Canada ULC | | | | | ✓ | 403-205-3322 | Calgary, AB | ✓ |
| Masterfeeds | | | | ✓ | | 403-327-2555 | Lethbridge, AB | |
| Maviga NA., Inc. | | ✓ | ✓ | ✓ | | 306-721-8900 | Regina, SK | ✓ |
| Monsanto | | | | | ✓ | – | Winnipeg, MB | |
| Natural Proteins | | | | | ✓ | 204-355-5040 | Blumenort, MB | ✓ |
| North American Food Ingredients | | | | | ✓ | 204-272-5510 | Winnipeg, MB | ✓ |
| Nutri-Pea Ltd. | | | | ✓ | | 204-239-5995 | Portage la Prairie, MB | |
| Nu-Vision Commodities | ✓ | | | | | 204-758-3401 | St. Jean Baptiste, MB | |
| Parrish & Heimbecker Ltd. | | | | | ✓ | 204-987-4320 | Winnipeg, MB | ✓ |
| Paterson Grain | | | | ✓ | ✓ | 204-956-2090 | Winnipeg, MB | ✓ |
| • FeedMax Corp. | | | | ✓ | ✓ | 204-523-0682 | Killarney, MB | ✓ |
| Providence Grain Group | ✓ | ✓ | ✓ | ✓ | ✓ | 780-997-0211 | Fort Saskatchewan, AB | ✓ |
| Quarry Seed | | | | | ✓ | 204-467-8877 | Stonewall, MB | |
| Remillard Seed Farm | | | | | ✓ | 204-737-2376 | St. Joseph, MB | |
| Richardson International | | | | ✓ | | 204-934-5627 | Winnipeg, MB | ✓ |
| • Richardson Pioneer Ltd. | | | | ✓ | ✓ | 204-934-5627 | Winnipeg, MB | ✓ |
| • Tri Lake Agri | | | | ✓ | | 204-523-5380 | Killarney, MB | ✓ |
| S.S. Johnson Seeds | ✓ | | | ✓ | | 204-376-5228 | Arborg, MB | ✓ |
| Seed-Ex Inc. | | | | | ✓ | 204-737-2000 | Letellier, MB | ✓ |
| Scouler Canada Ltd. | ✓ | ✓ | ✓ | ✓ | ✓ | 403-720-9050 | Calgary, AB | ✓ |
| Shafer Commodities | | | | | ✓ | 204-822-6275 | Morden, MB | ✓ |
| Simpson Seeds | | | ✓ | | | 306-693-2132 | Moose Jaw, SK | ✓ |
| Southland Pulse | | | | ✓ | | 306-634-8008 | Estevan, SK | ✓ |
| Sunrich LLC | | | | | ✓ | 507-446-5642 | Hope, MN | |
| Thompsons Limited | ✓ | | ✓ | ✓ | | 519-676-5411 | Blenheim, ON | ✓ |
| Vanderveen Commodity Services | | | | | ✓ | 204-745-6444 | Carman, MB | ✓ |
| Viterra Inc. | ✓ | ✓ | ✓ | ✓ | ✓ | Contact your local Viterra sales representative | | ✓ |
| Walhalla Bean Co. (Canada Ltd.) | ✓ | | | | | 701-549-3721 | Walhalla, ND | ✓ |
| • Winkler Receiving | ✓ | | | | | 204-325-0767 | Winkler, MB | ✓ |
| Wilbur Ellis | ✓ | | ✓ | ✓ | | 204-867-8163 | Minnedosa, MB | ✓ |
| Zeghers Seeds Inc. | | | ✓ | ✓ | | 204-526-2145 | Holland, MB | ✓ |

The Canada Grain Act requires some elevators and grain dealers to have a Canadian Grain Commission (CGC) license and post-security to cover their liabilities – what they owe to farmers. Grain dealers and operators of primary, terminal and process elevators in Western Canada are licensed by the CGC. Seed cleaning plants that do not purchase grain and feed mills do not have to be licensed. The pulse and soybean crop buyers listing includes only companies that are licensed and secured by the CGC (or exempted by regulation), and who are registered to submit check-off to MPSG. **It is the responsibility of the farmer to ensure the company they are dealing with is reliable.** Questions regarding licensing and security should be directed to the CGC at 1-800-853-6705 or 204-983-2770. To be included on MPSG's pulse and soybean crop buyers list, contact the MPSG office at 204-745-6488 for the buyers registration package.