



Pulse Variety Evaluation in 2010

This publication features the results from MPGA sponsored trials.

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The evaluation of pulse varieties across five different pulse crop types (peas, lentils, fababeans, edible beans and soybeans) found within this publication are made possible with your continued support through your MPGA check-off levy. Financial assistance was also provided by the Agri-Food Research and Development Initiatives (ARDI) and the Agriculture and Agri-Food Canada (AAFC) Pulse Science Cluster fund.

Variety Evaluation Trial Notes

2010 was a year many Western Canadian farmers would prefer not to repeat – ever. It was also a tough year for the MPGA edible bean trials. Only one of the five regional Narrow Row Dry Bean trials (Thornhill site) was harvested; the rest were disced down. The Wide Row Dry Bean Screening trials fared a little better, with a full data set from Carman and most of the data from Winkler. Due to the excess moisture and damage to our Morden and Portage sites, we have decided not to publish the data.

Weather also was a factor in our other trials. The lentil and fababeans trials received excess water and resulted in only one trial of each plot being valid.

The Carman Roundup Ready Soybean trial was also lost due to white mould and the Arborg pea trial was lost due to excess water.

How to Interpret the Data Tables

In the edible bean tables, the check variety for each bean class is displayed in **bold type**, and the yields (for the current year only) are all shown in lbs/acre. The best way to determine the suitability of a variety in your area is to see it in pairs with the checks, and in as many different settings and even years as possible.

For all other pulse crops, the check is identified in the check variety box at the bottom of the table. The variety yield data is shown as % of the check and the site years tested column is located beside the yield. The actual yield of the check is indicated in the check variety box at the bottom of the trial data.

Is one variety better than another?

In order to tell if there truly is a difference between varieties in a small plot variety trial, you need to review the figures at the bottom of the table. First, look at the CV% (Coefficient of Variation). The Coefficient of Variation is expressed as a % and is a

common measurement to describe how reliable the data in the trial is. In general, the lower the CV% the better quality the data in the trial is. The second piece of information to take note of is the LSD (Least Significant Difference). This number represents the amount of yield (in lbs/acre) that two varieties have to differ before you can say with 95% confidence that the yield potential between the true varieties is truly different.

In the Carman wide row small bean trial (on page 4) the 5% trial CV indicates the trial was very uniform, the LSD means that two Navy Bean varieties have to vary by more than 123 lbs/acre before they can be considered different.

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 the Agriculture and Agri-Food Canada, Morden Research Station, the WADO, PCDF, PESAI and CMCDC research facilities and the private research companies, without whom this publication would not have been possible. 🌱

KEY – APPLICABLE TO ALL EDIBLE BEAN CHARTS

Agronomic Traits		Disease Traits
Yield	lb/acre	Field Rating:
Maturity	Number of days to when 90% of plants ready to combine	Bacterial Blight Severity (0-5)
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	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
Plant Height	Plant height in cm, rated at maturity	Bacterial Blight Incidence – % leaf tissue infected
Lodging (1-5)	Rated at maturity 1 = upright 5 = flat on the ground	Anthraxnose Incidence – % plant tissue infected
Pod Ht (> 5 cm)	% of pods above 5 cm from the ground	Rust Incidence – % plant tissue infected
Seed Weight	Grams per 1000 seeds	White Mould Incidence – % plant tissue infected
Seed Quality (1-5)	Based on size, shape, colour and wrinkle-free seed coat 1 = very good 5 = very poor	

KEY – APPLICABLE TO ALL CHARTS

CV	Coefficient of Variation. The statistical measure of random variation in a trial. CV less than 15% generally indicates more uniform trial and conclusive data.
LSD	Least Significant Difference. The amount that two varieties must differ before it can be said with a 95% chance of certainty that a true difference exists.

2010 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

Winkler

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Ht cm	Ldg 1-5	Pod Ht %>5cm	TKW g	Qual 1-5	CBB Sever 1-5	CBB Incid %	Rust %	Anth Incid %	WM Incid %
DARK KIDNEY												
ROG 802	1314	100	52	1.7	80	420	3.0	3	23	0	0	11.3
Cabernet	803	101	53	1.7	75	429	3.0	3	27	0	0	1.7
OAC Redstar	2091	106	55	2.0	77	468	3.0	3	27	0	0	5.0
Majesty	1294	106	50	1.7	67	514	4.0	3	28	0	0	7.0
Red Rover	1138	99	48	2.7	65	439	4.7	3	25	0	0	4.7
Mean	1328	102	51	2.0	73	454	4.0	3	26	0	0	6.0
LIGHT KIDNEY												
Foxfire	1402	101	52	2.0	73	485	3.7	3	30	0	0	2.3
AC Elk	1259	102	45	1.7	68	528	4.0	3	23	0	0	0.3
Clouseau	1631	104	48	2.0	73	535	3.7	3	30	0	0	0.7
Lyrík	1430	100	45	1.0	78	580	4.0	3	30	0	0	1.0
L945138.1	1460	103	51	1.0	75	509	4.0	3	28	0	0	2.7
Pink Panther	1769	101	53	2.0	70	533	3.7	3	30	0	0	4.3
Mean	1492	102	49	2.0	73	528	4.0	3	29	0	0	2.0
CRANBERRY												
Cran09	746	98	45	2.0	62	415	4.7	3	27	0	0	25.0
Etna	1468	98	55	1.7	70	508	4.0	3	30	0	0	6.7
Red Rider	1438	105	50	1.7	77	456	4.3	3	30	0	0	1.3
BRB-DJ09-1031	866	93	45	1.0	78	470	4.0	3	30	0	0	1.3
BRB-DJ09-1015	1761	106	63	1.7	80	483	4.0	3	22	0	0	12.3
Mean	1256	100	52	2.0	73	466	4.0	3	28	0	0	9.0
Overall Trial Mean	1366	101	51	1.8	73	485	3.9	3	28	0	0	5.5
CV%	7											
LSD	148											

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Ht cm	Ldg 1-5	Pod Ht %>5cm	TKW g	Qual 1-5	CBB Sever 1-5	CBB Incid %	Rust %	Anth Incid %	WM Incid %
DARK KIDNEY												
ROG 802	1285	100	50	1.3	75	428	3.0	3	27	0	0	0.3
Cabernet	613	99	37	2.7	68	392	4.0	3	20	0	0	0.3
OAC Redstar	1862	105	52	2.0	73	495	3.3	3	28	0	0	0.0
Majesty	1091	99	47	1.7	82	492	5.0	3	20	0	0	1.0
Red Rover	392	99	38	2.3	70	425	4.0	3	20	0	0	0.3
Mean	1049	100	45	2.0	74	446	4.0	3	23	0	0	0.0
LIGHT KIDNEY												
Foxfire	1445	100	48	1.3	75	484	4.0	3	25	0	0	0.3
AC Elk	1099	100	42	1.0	75	511	4.0	3	27	0	0	2.0
Clouseau	1531	102	50	1.7	72	540	4.0	3	28	0	0	0.7
Lyrík	1492	101	38	1.3	73	550	4.0	3	28	0	0	1.0
L945138.1	1119	101	45	1.0	78	487	3.7	3	27	0	0	0.0
Pink Panther	1287	103	47	1.3	75	543	4.0	3	30	0	0	1.0
Mean	1289	101	45	1.0	75	509	4.0	3	27	0	0	1.0
CRANBERRY												
Cran09	713	98	48	3.0	65	411	5.0	3	23	0	0	19.0
Etna	1058	98	40	1.7	77	493	4.0	3	27	0	0	0.0
Red Rider	1073	100	50	2.0	72	450	4.3	3	30	0	0	1.3
BRB-DJ09-1031	810	98	47	2.0	75	457	4.3	3	-	0	0	2.0
BRB-DJ09-1015	2071	107	48	1.7	77	503	3.3	3	23	0	0	0.0
Mean	1145	100	47	2.0	73	463	4.0	3	26	0	0	4.0
Overall Trial Mean	1182	101	45	1.7	74	479	4.0	3	25	0	0	1.7
CV%	8											
LSD	123											

2010 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

Winkler

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Ht cm	Ldg 1–5	Pod Ht %>5cm	TKW g	Qual 1–5	CBB Sever 1–5	CBB Incid %	Rust %	Anth Incid %	WM Incid %
PINTO												
Maverick	987	100	65	4.0	43	337	3.7	3	22	0	0	63.0
AC Ole	1329	100	68	3.0	53	334	3.7	3	25	0	0	58.0
AC Winmor	1029	99	83	4.0	43	347	3.7	3	20	0	0	67.0
La Paz	1478	102	60	3.0	52	332	4.0	3	22	0	0	53.0
Mariah	616	94	55	3.0	52	345	3.7	3	22	0	0	90.0
Pintoba	1704	100	67	3.7	52	318	3.7	3	22	0	0	47.0
Windbreaker	1432	100	80	3.7	42	318	4.0	3	22	0	0	60.0
CoB 2824-99	1283	100	88	4.0	45	309	4.0	3	27	0	0	72.0
GTS 907	1168	98	62	4.0	50	294	3.7	3	20	0	0	77.0
P7025615	706	94	52	3.0	50	355	4.0	3	23	0	0	85.0
P7025613	563	95	50	3.3	55	347	4.0	3	20	0	0	85.0
6187	940	102	80	3.3	50	330	3.7	3	22	0	0	63.0
Mean	1103	99	68	4.0	49	331	4.0	3	22	0	0	68.0
YELLOW												
CDC Sol 2253-4	1697	103	55	1.7	82	391	2.7	3	27	0	0	17.0
Overall Trial Mean	1145	99	67	3.4	51	335	3.8	3	23	0	0	64.6
CV%	9											
LSD	151											

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Ht cm	Ldg 1–5	Pod Ht %>5cm	TKW g	Qual 1–5	CBB Sever 1–5	CBB Incid %	Rust %	Anth Incid %	WM Incid %
PINTO												
Maverick	1631	99	48	3.0	65	336	3.7	3	22	0	0	7.3
AC Ole	1731	99	47	2.3	72	336	4.0	3	23	0	0	8.0
AC Winmor	1474	99	48	2.3	73	350	3.7	3	27	0	0	37.0
La Paz	2175	100	65	1.7	82	316	3.7	3	28	0	0	3.3
Mariah	1614	98	48	2.0	72	333	4.0	3	20	0	0	20.0
Pintoba	2104	98	55	3.0	68	322	3.3	3	25	0	0	4.3
Windbreaker	2283	102	63	2.3	73	322	4.0	3	20	0	0	7.3
CoB 2824-99	1911	99	52	3.0	68	313	3.7	3	22	0	0	13.3
GTS 907	1955	100	50	3.0	72	310	4.0	3	22	0	0	20.0
P7025615	1594	98	55	2.3	77	351	4.0	3	22	0	0	28.3
P7025613	1430	99	55	2.0	72	332	4.0	3	22	0	0	33.0
6187	1940	101	57	2.0	75	320	4.3	3	27	0	0	18.3
Mean	1820	99	54	2.0	72	328	4.0	3	23	0	0	17.0
YELLOW												
CDC Sol 2253-4	1645	99	43	1.0	80	384	3.0	3	22	0	0	0.3
Overall Trial Mean	1808	99	53	2.3	73	332	3.8	3	23	0	0	15.5
CV%	6											
LSD	144											

2010 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Ht cm	Ldg 1-5	Pod Ht %>5cm	TKW g	Qual 1-5	CBB Sever 1-5	CBB Incid %	Rust %	Anth Incid %	WM Incid %
NAVY												
Envoy	664	100	38	2.3	68	175	3.7	3	27	0	0	30.0
AC Cruiser	2189	104	60	2.0	85	180	3.0	3	23	0	0	5.0
Cargo	985	104	42	2.7	70	171	3.0	3	25	0	0	18.3
Octane	1138	101	37	3.0	65	161	4.0	3	20	0	0	13.3
Galley	1511	104	58	1.0	87	184	3.7	3	18	0	0	1.3
Indi	1711	105	70	1.0	90	170	3.0	3	23	0	0	0.0
Lightning	1499	104	68	1.3	87	189	2.3	3	20	0	0	0.0
Skyline	670	97	33	2.7	63	162	4.3	3	17	0	0	28.3
H96048	2078	106	70	1.7	82	183	3.0	3	8	0	0	0.0
Portage	2272	103	68	1.3	85	178	3.0	3	10	0	0	0.7
HR 177	1907	102	52	1.0	93	175	3.0	3	25	0	0	1.3
HY 4181	2275	103	63	2.3	75	193	4.3	3	20	0	0	3.3
N5059541	1733	101	57	1.0	85	156	2.3	3	15	0	0	1.7
N5039540	1975	104	67	1.3	90	149	3.0	3	30	0	0	0.0
OAC 05-1	844	97	30	1.3	75	166	4.0	3	20	0	0	16.7
T9903	1839	102	55	2.0	80	194	3.0	3	23	0	0	0.7
T9905	1939	106	60	1.7	85	188	3.0	3	22	0	0	0.3
Mean	1602	103	55	1.7	80	175	3.3	3	20	0	0	7.1
BLACK												
CDC Jet	1600	102	55	1.0	85	188	2.0	3	22	0	0	0.0
Bandit	1472	105	53	1.7	85	190	2.3	3	30	0	0	0.0
Black Violet	1921	100	53	1.3	92	230	2.7	3	27	0	0	3.3
Black Velvet	2522	103	60	1.3	92	202	2.7	3	13	0	0	0.0
Eclipse	2036	101	60	1.0	87	198	2.3	3	20	0	0	0.3
Carman Black	1926	103	53	2.0	92	203	3.0	3	20	0	0	0.0
2007B-2	1329	104	47	1.0	83	202	3.0	3	7	0	0	0.0
6253	1465	101	53	1.0	85	185	3.0	3	20	0	0	0.3
Mean	1784	102	54	1.3	88	200	2.6	3	20	0	0	0.5
Overall Trial Mean	1658	102	54	1.6	83	183	3.1	3	20	0	0	5.1
CV%	5											
LSD	123											

2010 DRY BEAN REGIONAL NARROW ROW – THORNHILL

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Flowering Date (Days)	Ht cm	Ldg 1-5	Plant Type 1-3	Pod Ht %>5cm	TKW g	Qual 1-5	CBB Sever 1-5	CBB Incid %	Rust %	WM Incid %
NAVY													
Envoy	599	103	47	37	1.7	1a	83	187	2.7	3	33	0.3	0.0
Skyline	746	105	49	37	1.7	1a	80	180	3.3	3	33	0.0	0.0
Lightning	1258	110	49	40	2.0	2a	83	191	3.7	3	25	0.0	0.0
OAC 05-1	1089	103	51	33	1.0	1b	83	167	3.0	3	32	0.0	0.0
1190M-13	1190	103	50	45	1.7	1a	87	176	3.3	3	32	0.0	0.0
Mean	976	105	49	38	2.0	-	83	180	3.0	3	31	0.0	0.0
BLACK													
CDC Jet	2040	108	49	50	1.3	1b	85	201	3.0	3	27	0.0	0.0
Blackcomb	1603	106	47	38	1.0	1a	80	193	2.3	3	23	0.0	0.0
Carman Black	1572	109	49	43	1.3	1b	83	208	2.3	3	12	0.0	0.0
Mean	1739	108	48	44	1.0	-	83	201	3.0	3	21	0.0	0.0
PINTO													
CDC Pintium	918	101	48	35	1.0	1a	80	350	4.3	3	28	3.3	0.0
Island	1137	102	48	48	1.7	2a	75	345	3.3	3	37	0.0	0.0
Mariah	2176	106	48	45	1.7	1b	78	375	3.0	3	17	0.0	0.0
Ole	2302	106	50	63	2.0	2a	76	386	4.0	3	25	0.0	0.0
Winchester	1610	104	50	75	1.0	2a	78	356	4.3	3	27	0.7	0.0
Winmor	1966	105	49	52	2.0	2a	80	381	4.0	3	20	1.7	0.0
CDC WM-1	927	102	49	33	2.0	1b	78	343	4.0	3	23	0.0	0.0
CDC WM-2	1217	105	49	40	2.0	1b	75	371	3.0	3	30	0.0	0.0
Mean	1532	104	49	49	2.0	-	75	371	3.0	3	30	0.0	0.0
PINK													
2171-2	1098	104	49	32	1.7	1a	78	346	3.3	3	20	11.7	3.3
YELLOW													
CDC 2253-4	1767	107	-	38	2.0	1a	73	402	2.7	3	30	0.0	0.0
Overall Trial Mean	1388	105	49	43	1.6	-	80	281	3.3	3	26	-	-
CV%	7												
LSD	126												

SUMMARY – 2010 LONG SEASON WIDE ROW DRY BEAN REGIONAL TRIALS

MARKET CLASS/Variety	Yield* lb/acre	Days to Maturity	Ht cm	Ldg 1–5	Pod Ht %>5cm	Plant Type 1–3	TKW g	Qual 1–5	CBB Sever 1–5	CBB Incid %	WM Incid %
NAVY											
Envoy	664	100	38	2.3	68	1a	175	3.7	3	27	30
AC Cruiser	2189	104	60	2.0	85	2a	180	3.0	3	23	5
Cargo	985	104	42	2.7	70	1a	171	3.0	3	25	18
Octane	1138	101	37	3.0	65	1a	161	4.0	3	20	13
Galley	1511	104	58	1.0	87	2a	184	3.7	3	18	1
Indi	1711	105	70	1.0	90	1a	170	3.0	3	23	0
Lightning	1499	104	68	1.3	87	2a	189	2.3	3	20	0
Skyline	670	97	33	2.7	63	1b	162	4.3	3	17	28
H96048	2078	106	70	1.7	82	1a	183	3.0	3	8	0
Portage	2272	103	68	1.3	85	1a	178	3.0	3	10	1
HR 177	1907	102	52	1.0	93	1a	175	3.0	3	25	1
HY 4181	2275	103	63	2.3	75	1b	193	4.3	3	20	3
N5059541	1733	101	57	1.0	85	1a	156	2.3	3	15	2
N5039540	1975	104	67	1.3	90	2a	149	3.0	3	30	0
OAC 05-1	844	97	30	1.3	75	1b	166	4.0	3	20	17
T9903	1839	102	55	2.0	80	1a	194	3.0	3	23	1
T9905	1939	106	60	1.7	85	2a	188	3.0	3	22	0
BLACK											
CDC Jet	1600	102	55	1.0	85	2a	188	2.0	3	22	0
Bandit	1472	105	53	1.7	85	2a	190	2.3	3	30	0
Black Violet	1921	100	53	1.3	92	2a	230	2.7	3	27	3
Black Velvet	2522	103	60	1.3	92	1b	202	2.7	3	13	0
Eclipse	2036	101	60	1.0	87	1a	198	2.3	3	20	0
Carman Black	1926	103	53	2.0	92	1b	203	3.0	3	20	0
2007B-2	1329	104	47	1.0	83	2a	202	3.0	3	7	0
6253	1465	101	53	1.0	85	2a	185	3.0	3	20	0
PINTO											
Maverick	1309	100	57	3.5	54	2a	337	3.7	3	22	35
AC Ole	1530	100	58	2.7	63	2b	335	3.9	3	24	33
AC Winmor	1252	99	66	3.2	58	2b	349	3.7	3	24	52
La Paz	1826	101	63	2.4	67	2b	324	3.9	3	25	28
Mariah	1115	96	52	2.5	62	2a	339	3.9	3	21	55
Pintoba	1904	99	61	3.4	60	2b	320	3.5	3	24	26
Windbreaker	1858	101	72	3.0	58	2a	320	4.0	3	21	34
CoB 2824-99	1597	100	70	3.5	57	1b	311	3.9	3	25	43
GTS 907	1562	99	56	3.5	61	2b	302	3.9	3	21	49
P7025615	1150	96	54	2.7	64	2a	353	4.0	3	23	57
P7025613	997	97	53	2.7	64	2a	340	4.0	3	21	59
6187	1440	102	69	2.7	63	2a	325	4.0	3	25	41
YELLOW											
CDC Sol 2253-4	1671	101	49	1.4	81	2a	388	2.9	3	25	9
DARK RED KIDNEY											
ROG 802	1299	100	51	1.5	78	1a	424	3.0	3	25	6
Cabernet	708	100	45	2.2	72	1a	411	3.5	3	24	1
OAC Redstar	1977	106	54	2.0	75	1a	482	3.2	3	28	3
Majesty	1192	103	49	1.7	75	1b	503	4.5	3	24	4
Red Rover	765	99	43	2.5	68	1b	432	4.4	3	23	3
LIGHT RED KIDNEY											
Foxfire	1423	101	50	1.7	74	1a	485	3.9	3	28	1
AC Elk	1179	101	44	1.4	72	1a	520	4.0	3	25	1
Clouseau	1581	103	49	1.9	73	1a	538	3.9	3	29	1
Lyrik	1461	101	42	1.2	76	1a	565	4.0	3	29	1
L945138.1	1290	102	48	1.0	77	1a	498	3.9	3	28	1
Pink Panther	1528	102	50	1.7	73	1a	538	3.9	3	30	3
CRANBERRY											
Cran09	730	98	47	2.5	64	2a	413	4.9	3	25	22
Etna	1263	98	48	1.7	74	1a	501	4.0	3	29	3
Red Rider	1255	103	50	1.9	75	1a	453	4.3	3	30	1
BRB-DJ09-1031	838	96	46	1.5	77	1a	464	4.2	3	30	2
BRB-DJ09-1015	1916	107	56	1.7	79	1a	493	3.7	3	23	6

* Average yield of Winkler and Carman sites; navy and black bean yield was from Carman site.

FIELD PEAS

New for 2011

Variety	Code	Type	Distributor	Seed Availability
Argus	MP 1846	Yellow	SeCan	2012
CDC Hornet	CDC 1749-8	Yellow	Saskatchewan Pulse Growers	2013
CDC Pluto	CDC 1996-216	Green	Saskatchewan Pulse Growers	2013
CDC Tetris	CDC 1812-5	Green	Saskatchewan Pulse Growers	2013
Hugo	MP 1838	Yellow	Alliance Seed Corporation	2013
Stella	ACY0301F	Forage	Alliance Seed Corporation	2013

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

VARIETY DESCRIPTIONS

Variety	Yield % Check	Site Years Tested	Maturity Rating	Vine Length	Seed Size	Resistance to								Seed Coat Breakage	Seed ³ Coat Dimpling
						Green ¹ Seed Coats	Lodging	Powdery Mildew	Mycosphaerella Blight	Fusarium ² Wilt	Bleaching				
YELLOW															
Agassiz	112	24	M	M	230	n/a	G	VG	F	F	n/a	G	n/a		
Argus	113	5	M	M	230	n/a	G	VG	F	F	n/a	F	n/a		
Canstar	105	18	E	M	240	n/a	G	VG	P	G	n/a	G	n/a		
CDC Bronco	91	26	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Centennial	107	16	E	M	270	F	F	VG	F	F	n/a	G	G		
CDC Golden	102	30	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Hornet	101	18	M	M	220	G	G	VG	F	F	n/a	F	G		
CDC Meadow	110	33	E	M	220	G	G	VG	F	F	n/a	G	G		
CDC Minuet	96	5	M	M	190	F	F	VG	F	F	n/a	F	G		
CDC Mozart	108	17	M	S	220	F	F	VG	F	F	n/a	G	G		
CDC Prosper	92	24	E	M	150	G	G	VG	F	G	n/a	G	F		
CDC Treasure	105	24	E	M	210	G	G	VG	F	G	n/a	F	F		
Cutlass	100	49	M	M	220	G	G	VG	F	F	n/a	F	F		
DS-Admiral	105	7	E	M	240	G	G	VG	F	F	n/a	G	G		
Eclipse	106	43	M	M	250	G	G	VG	F	F	n/a	G	F		
FUSION	99	18	M	M	245	n/a	G	VG	P	P	n/a	F	n/a		
Hugo	97	5	M	M	220	n/a	G	VG	F	G	n/a	G	n/a		
Noble	94	12	M	M	250	n/a	G	VG	F	F	n/a	F	n/a		
Polstead	104	29	M	S	280	n/a	G	VG	P	P	n/a	F	n/a		
Reward	103	18	M	M	240	n/a	G	VG	F	F	n/a	G	n/a		
SW Carousel	102	16	E	M	250	G	G	VG	F	F	n/a	F	G		
SW MIDAS	103	24	E	M	220	G	G	VG	F	F	n/a	G	G		
SW SALUTE	100	11	M	M	220	F	F	VG	F	P	n/a	F	F		
Sorento	104	19	M	M	260	n/a	F	VG	F	F	n/a	G	n/a		
Thunderbird	106	24	M	M	220	n/a	G	VG	F	F	n/a	G	n/a		
Tudor	101	16	M	M	270	F	G	VG	P	F	n/a	F	G		
GREEN															
BLUEBIRD	90	15	E	S	250	n/a	F	VG	P	P	n/a	n/a	n/a		
Camry	101	16	M	S	260	n/a	G	VG	F	F	F	F	G		
CDC Montero	104	4	L	M	230	n/a	F	VG	F	F	F	G	F		
CDC Patrick	102	23	M	M	190	n/a	G	VG	F	G	G	G	F		
CDC Pluto	105	5	M	M	160	n/a	F	VG	F	F	G	G	n/a		
CDC Sage	85	16	M	M	220	n/a	G	VG	F	G	G	G	F		
CDC Striker	95	46	M	M	230	n/a	G	P	F	G	G	VG	G		
CDC Tetris	107	11	L	M	210	n/a	G	VG	F	G	G	G	G		
COOPER	103	39	L	M	270	n/a	G	VG	F	F	G	F	G		
Nitouche	98	10	M	M	250	n/a	G	P	P	P	G	F	F		
Stratus	100	15	M	S	270	n/a	F	VG	F	P	P	G	G		
SW Sergeant	93	15	M	M	200	n/a	G	VG	F	F	G	G	F		
TAMORA	90	18	M	M	290	n/a	G	VG	F	P	F	F	n/a		
OTHER PEA TYPES															
CDC Rocket (Maple)	92	18	M	M	210	G	F	VG	F	n/a	n/a	n/a	G		
CDC Leroy (Silage)	89	19	M	M	150	F	G	VG	F	n/a	n/a	n/a	G		
CDC Tucker (Silage)	93	18	M	M	170	F	G	VG	F	n/a	n/a	n/a	G		
40-10 (Silage)	69	14	L	T	140	n/a	P	P	P	n/a	n/a	n/a	G		
Stella (silage)	93	5	L	M	220	n/a	G	VG	F	F	n/a	G	n/a		

CHECK CHARACTERISTICS

Cutlass	71	49	99	34	220 (g)
	bu/	site	days	inches	per 1000
	acre	years			seeds

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%

YIELD BY LOCATION – FIELD PEAS

Manitoba Variety	2010 Average Yield	Site Years Tested	2010 Yield: % of Cutlass				
			Boissevain	Dauphin	Hanniota	Melita	Morden
YELLOW							
Agassiz	118	5	101	152	140	110	105
Argus	113	5	102	121	130	117	108
CDC Bronco	86	5	86	81	102	96	78
CDC Golden	107	5	95	107	122	123	100
CDC Hornet	103	5	99	103	98	126	97
CDC Meadow	114	5	96	108	159	145	95
CDC Prosper	95	5	91	80	113	125	83
CDC Treasure	107	5	96	121	126	90	108
Cutlass	100	5	100	100	100	100	100
Eclipse	108	5	94	106	134	127	100
Hugo	97	5	99	91	103	123	83
Polstead	107	5	97	114	126	118	98
Sorento	112	5	105	120	134	117	101
Thunderbird	107	5	97	99	116	128	107
GREEN							
CDC Patrick	109	5	95	132	122	106	103
CDC Pluto	105	5	97	121	104	116	95
CDC Striker	110	5	98	111	153	130	90
CDC Tetris	111	5	101	122	150	118	93
COOPER	110	5	101	114	138	121	96
OTHER							
Stella	93	5	81	94	111	100	91
CHECK YIELD	Cutlass (bu/acre)		76	59	42	50	95
	CV%		6.6	9.5	9.0	13.2	11.6
	LSD%		10	15	14	22	18
	Sign Diff		Yes	Yes	Yes	Yes	Yes

FABABEANS

Variety	Yield % Check	Site Years Tested	Type ¹	Seed Size TKW (g)	2010 Yield: % of CDC Fatima	
					Roblin	
CDC Blitz	100	22	Tannin	–	–	–
CDC Fatima	100	27	Tannin	523	100	100
Florent	103	5	Tannin	523	105	105
Snowbird	95	5	Zero Tannin	502	98	98
Taboar	89	7	Tannin	471	–	–
Varieties that are being tested or proposed for registration						
NPZ 4-7520	92	5	Zero Tannin	554	99	99
CHECK CHARACTERISTICS				CDC Fatima (lb/acre)		7712
CDC Fatima	3606 lb/acre	27 site years		CV%	5.4	5.4
				LSD%	9	9
				Sign Diff	Yes	Yes

¹ Traditional tannin fababeans have tan coloured seed coats that contain tannins and can't be fed directly to livestock. Zero tannin fababeans have white seed coats and can be fed directly to livestock.

LENTILS

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

Market Class	Variety	Yield % Check	Site Years Tested	Maturity Rating ¹	Resistance to		Seed Weight (TKW)	Cotyledon Colour	2010 Yield: % of CDC Milestone	
					Ascochyta Blight	Anthracnose Race 1			Roblin	
Small green	CDC Invincible CL	94	8	Early	G	G	35	Yellow		107
	CDC Milestone	100	26	Early	G	VP	37	Yellow		100
	Eston	99	23	Early	VP	VP	33	Yellow		98
Medium green	CDC Imigreen CL	79	8	Medium	G	F	63	Yellow		96
	CDC Impress CL	85	10	Medium	G	P	52	Yellow		97
	CDC Richlea	106	23	Medium	VP	VP	51	Yellow		89
Large green	CDC Greenland	85	14	Med/Late	G	VP	64	Yellow		85
	CDC Impower CL	77	5	Medium	G	P	74	Yellow		97
	CDC Improve CL	89	13	Medium	F	VP	67	Yellow		96
	CDC Plato	95	23	Med/Late	G	P	62	Yellow		94
	Laird	83	23	Very Late	VP	VP	67	Yellow		86
French green	CDC Peridot CL	100	8	Early	G	P	40	Yellow		104
Extra small red	CDC Robin	102	26	Early	G	G	30	Red		106
	CDC Impala CL	102	10	Early	G	G	31	Red		106
	CDC Imperial CL	95	14	Early	G	G	30	Red		105
	CDC Redbow	108	8	Early/Med	G	G	42	Red		126
	CDC Rosebud	111	8	Early	G	G	29	Red		115
	CDC Rosetown	107	14	Early	G	G	31	Red		104
Small red	CDC Imax CL	103	8	Medium	G	G	50	Red		102
	CDC Impact CL	94	14	Early	G	P	34	Red		113
	CDC Maxim CL	125	10	Early/Med	G	G	40	Red		130
	CDC Red Rider	91	5	Early/Med	G	F	45	Red		–
	CDC Redberry	113	17	Early/Med	G	G	42	Red		113
	CDC Redcoat	101	8	Early	G	G	40	Red		108
Large red	CDC KR-1	98	9	Medium	G	G	56	Red		101

CHECK CHARACTERISTICS		CDC Milestone (lb/acre)						4120
CDC Milestone	2322 lb/acre	26 site years					CV%	8.3
							LSD%	14
							Sign Diff	Yes

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

NATTO SOYBEANS

OAC Prudence is **not a natto type soybean**; it is used as a check to determine the yield potential of natto type soybeans compared to conventional soybeans.

VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Heat Unit	Variety	Relative Days to Maturity + / - of Check				Yield % Check	Site Years Tested	Lodging*	Seeds/lb	IDC Rating (1–5)	2010 Yield: % of OAC Prudence							
			Average	2010	2009	2008						Arborg	Stonewall	Carman	Portage	St. Adolphe	Morris	Rosebank	Morden
short season	2375	QGC 10N	-9	-9	-8	-8	80	36	2.5	5600	1.9	89	88	78	86	84	94	–	–
	2375	QGC 12N	-9	-9	-8	-9	78	36	2.8	5200	2.3	81	85	81	82	78	84	–	–
mid season	2475	OAC Prudence	0	0	0	0	100	38	2.3	2300	1.6	100	100	100	100	100	100	100	100

Experimental lines that have been supported for registration in Canada

		OT 08-05	0	3	-3	100	107	6	1.9	4300	–	–	91	107	112	103	114	110
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CHECK CHARACTERISTICS		OAC Prudence (bu/acre)						29	62	52	83	35	46	57	81
OAC Prudence	124 days to maturity	125	125	122	51 bu/acre	38 site years	CV%	12.4	4.3	9.1	6.2	10.0	4.1	6.0	2.7
							LSD%	32	9	15	10	17	7	10	5
							Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

* Lodging ratings (1–5) were averaged across Arborg, Morris, Portage and Stonewall sites.

WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

Soybeans do not qualify for MASC Production Insurance at Roblin or Hamiota.

VARIETY DESCRIPTIONS

Variety	Company Heat Unit	Relative Days* to Maturity + / - of Check	Yield % Check	Site Years Tested	Lodging** 1-5	2010 Yield: % RR Rosco						
						Boissevain	Carberry	Hamiota	Melita	Roblin	Wawanesa	
NSC Warren RR	2350	-2	102	17	1	98	95	104	102	110	83	
RR Rosco	2450	0	100	37	3	100	100	100	100	100	100	
S00-W3	2450	2	89	6	1	92	76	108	90	89	83	
IsisRR	2400	2	98	17	1	91	103	103	92	92	98	
LS 0028	2375	3	97	17	1	104	94	111	96	88	86	
LS 0036	2425	4	98	17	1	105	104	104	99	89	90	
900Y71	2400	5	96	6	1	109	85	108	105	88	81	
PS 0027 RR***	2425	nfm	98	6	1	99	107	101	92	98	93	
NSC Argyle RR***	2450	nfm	95	17	1	91	66	101	89	89	71	
24-60RY***^	2475	nfm	91	6	3	111	87	96	89	80	84	
CHECK CHARACTERISTICS						RR Rosco (bu/acre)	70	70	45	74	62	61
RR Rosco		123 days to maturity	43 bu/acre	37 site years	CV%	4.0	4.9	8.0	7.9	6.1	12.4	
					LSD%	7	8	-	-	10	-	
					Sign Diff	Yes	Yes	No	No	Yes	No	

* Maturity ratings from Boissevain, Wawanesa and Melita sites.

** Lodging ratings from Boissevain.

*** Varieties did not fully mature at Carberry, Hamiota and Roblin. No varieties fully matured at Roblin.

^ Indicates Genuity Roundup Ready 2 Yield™ soybean variety.

NOTES – APPLICABLE TO ROUNDUP READY AND CONVENTIONAL SOYBEAN CHARTS ONLY

MATURITY NOTES – always use more than one criteria to gauge maturity

- 1 Soybean varieties have been organized into three maturity zones – short-, mid- and long-season areas. Although there are no variety restrictions, the **short-season** grouping is meant to be a starting point for new growers in the outer production areas. The **long-season** group is targeted for southern Manitoba generally south of highway 23, with the **mid-season** grouping making up the bulk of the production area between the short- and long-season area.
- 2 Company Crop Heat Unit ratings are assigned to assist growers in selecting varieties suitable for their area. Unfortunately Company Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just one criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.
- 3 Relative days to maturity (DTM) is the number of days from seeding to plant maturity (95% of the pods on the plant are mature with seeds rattling in the pods when plant is shaken) and is expressed as + or - days from the check. The DTM have been calculated from four common sites (Portage, St. Adolphe, Morris) unless otherwise stated. Actual days to maturity for the check is found in the grey check box at the bottom of the table.

GENERAL NOTES

- 1 Roundup Ready, Conventional and soybean varieties are evaluated separately from Roundup Ready type varieties, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 plants/acre.
- 2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF) or Black (BL) and is solely a

marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.

- 3 Relative Seeds/lb – these were the seed numbers of the varieties entered into the trial. Soybean seed size can vary greatly between varieties and even from seed lot to seed lot of the same variety. Growers should use the seed size for their seed lot when calculating seeding rates.
- 4 Lodging is rated at harvest; 1=standing upright, 5=flat along the ground. A rating of 3 or more can promote white mould within the crop canopy.
- 5 Iron Deficiency Chlorosis (IDC) rating scores 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 were taken from four sites prone to iron chlorosis over the last two years. IDC tolerant varieties are varieties with lower IDC scores and perform better on soils prone to iron deficiency chlorosis.
- 6 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings, which are close but are in different groupings, will show similar symptoms. Both numerical and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves when yellow then turned green, Susceptible=leaves went chlorotic and had dead patches on their leaves and were often stunted.
- 7 Soybeans are not eligible for MASC Production Insurance in all parts of the province – consult your local agent for more details.

ROUNDUP READY SOYBEANS

New for 2011

Variety	Previous Code	Distributor	Seed Availability
29004RR	29009RR	Quarry Grain Commodities Inc.	2011
NSC Argyle RR	NSC 2707	Northstar Genetics Manitoba	2011
900Y71	PH09005	Pioneer Hi Bred Ltd.	2011

VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Heat Unit	Variety	Relative Days to Maturity + / - of Check				Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/ lb	Lodging* 1-5	IDC		
			Average	2010	2009	2008						Rating 1-5	Grouping	
short season zone	2350	NSC Warren RR	-7	-10	-5	-6	91	29	BR	3062	2.7	1.6	Tolerant	
	2375	29002RR	-5	-7	-3	-4	87	16	GR	3200	1.3	2.6	Susceptible	
	2450	RR Rosco	-4	-5	-4	-3	90	26	IY	2800	4.1	2.2	Semi Tolerant	
	2375	Drako RR	-4	-4	-2	-5	87	28	BR	2702	3.3	2.3	Semi Tolerant	
	2450	S00-W3	-3	-6	-1	-2	96	16	GR	3100	2.3	2.0	Semi Tolerant	
	2400	IsisRR	-3	-5	-2	-3	96	29	BR	2830	2.5	2.1	Semi Tolerant	
mid season zone	2400	900Y71	-3	-4	-2	-	102	9	IY	2316	2.5	1.6	Tolerant	
	2400	LS 0028RR	-2	-3	-2	-2	98	16	BR	3600	2.2	2.0	Semi Tolerant	
	2425	LS 0036RR	-1	-2	-1	-1	97	32	BR	3600	2.3	1.5	Tolerant	
	2550	RR Russell	-1	-1	-1	-2	94	25	BR	2900	4.1	2.0	Semi Tolerant	
	2475	NSC Argyle RR	-1	0	-2	0	99	22	BR	2298	3.3	2.3	Semi Tolerant	
	2525	S00-H7	-1	0	-1	0	93	15	GR	3000	3.0	2.3	Semi Tolerant	
	2450	25-04R	0	-1	0	1	100	28	BR	2768	2.8	1.8	Semi Tolerant	
	2425	PS 0027 RR	0	-2	2	-	111	10	BL	2860	3.6	1.8	Semi Tolerant	
	2450	27005RR	0	-2	1	1	97	27	BR	3400	2.2	1.7	Tolerant	
	2500	NSC Portage RR	0	0	0	0	100	37	BR	3895	2.8	1.8	Semi Tolerant	
	2450	NSC Carey RR	0	0	2	-1	96	15	BR	3114	1.4	2.4	Susceptible	
	2525	26006RR	1	1	1	1	95	28	BR	3200	1.6	1.6	Tolerant	
	2450	90A06	1	-1	3	2	96	30	BU	2450	3.7	1.6	Tolerant	
	2450	29004RR	2	2	-	1	95	11	BR	4000	3.8	1.7	Tolerant	
	2500	PRO 2515R	2	1	2	-	104	9	IB	2647	3.6	2.8	Susceptible	
	2475	LS 0065RR	2	1	1	2	101	28	BL	3400	4.0	1.7	Tolerant	
	2500	HS 005R04	3	1	4	-	95	15	BR	3300	2.2	-	-	
	2550	NSC Coulee RR	3	2	4	2	100	28	BR	3078	3.3	1.9	Semi Tolerant	
Experimental lines that have been supported for registration in Canada														
		LS 006R21^	0	0	-	-	106	7	BL	2441	3.1	-	-	
		NSC Osbourne RR2Y^	2	2	-	-	113	7	BL	2250	3.4	-	-	
		NSC Gretna RR2Y^	3	3	-	-	110	7	BL	2750	3.4	-	-	
long season zone	2500	90M01	4	3	6	5	97	25	Y	2655	3.0	1.7	Tolerant	
	2525	30005RR	5	4	6	6	105	15	GR	3000	2.9	2.4	Susceptible	
	2500	29006RR	6	4	9	6	99	15	BL	3200	3.5	1.9	Semi Tolerant	
	2550	29008RR	7	4	9	8	104	15	BL	3000	3.5	2.3	Susceptible	
	2575	HS 02R28**	7	nfm	8	6	99	15	BR	2900	4.0	2.4	Susceptible	
	Experimental lines that have been supported for registration in Canada													
			LS 008R21^	4	4	-	-	117	7	BL	2481	3.7	-	-
			25-61RY^	4	4	-	-	108	7	BL	2730	3.1	-	-
			24-60RY^	4	4	-	-	102	7	BL	3210	3.3	-	-
			25-10RY^	5	5	-	-	108	7	BL	2630	2.8	-	-
			25-60RY^	5	5	-	-	106	7	BL	2430	3.3	-	-
		HXR2Y11**^	nfm	nfm	-	-	104	7	BL	3000	4.5	-	-	

CHECK CHARACTERISTICS

NSC Portage RR	123	127	122	121	54	37	BR	3895
	days to maturity				bu/acre	site years	Hilum	seeds/lb

* Lodging ratings are averaged across Morris and Carman 2010 locations.

** Variety did not fully mature at 1 or more sites

^ Indicates Genuity Roundup Ready 2 Yield™ soybean variety

YIELD BY LOCATION – ROUNDUP READY SOYBEANS

Manitoba Variety Zone	Variety	2010 Average Yield	Site Years Tested	2010 Yield: % of NSC Portage RR								
				Beausejour	Arborg	Stonewall	Portage	St. Adolphe	Morris	Rosebank	Morden	
short season zone	NSC Warren RR	95	6	100	97	92	90	105	97	-	-	
	29002RR	90	6	95	91	88	86	92	100	-	-	
	RR Rosco	98	6	100	109	93	87	113	105	-	-	
	Drako RR	90	5	-	91	93	78	100	104	-	-	
	900Y71	101	5	-	101	100	100	108	101	-	-	
	S00-W3	94	6	98	98	96	83	104	96	-	-	
	IsisRR	102	6	111	102	101	97	107	108	-	-	
	LS 0028RR	102	6	113	102	96	93	114	115	-	-	
mid season zone	LS 0036RR	98	6	118	100	92	91	93	111	-	-	
	RR Russell	96	5	-	-	-	94	94	106	105	90	
	NSC Argyle RR	92	6	97	81	87	88	98	110	-	-	
	S00-H7	96	5	-	-	-	88	102	103	108	92	
	25-04R	103	8	114	100	108	98	110	120	116	81	
	PS 0027 RR	110	6	111	103	114	105	117	114	-	-	
	27005RR	99	5	-	-	-	97	113	100	105	92	
	NSC Portage RR	100	8	100	100	100	100	100	100	100	100	
	NSC Carey RR	95	5	-	-	-	99	97	91	95	90	
	26006RR	96	5	-	-	-	104	99	98	103	76	
	90A06	96	6	88	102	97	93	100	99	-	-	
	29004RR	95	5	-	-	-	91	102	93	101	94	
	PRO 2515R	103	5	-	-	-	93	113	112	115	97	
	LS 0065RR	101	5	-	-	-	105	101	100	116	87	
	HS 005R04	95	5	-	-	-	92	84	102	115	87	
	NSC Coulee RR	101	5	-	-	-	95	110	115	108	92	
	Experimental lines that have been supported for registration in Canada											
		LS 006R21^	106	7	-	104	110	99	112	112	124	95
	NSC Osbourne RR2Y^	113	7	-	112	109	108	120	112	129	112	
	NSC Gretna RR2Y^	110	7	-	109	110	105	129	117	112	101	
long season zone	90M01	100	5	-	-	-	98	107	103	110	89	
	30005RR	102	5	-	-	-	91	114	111	132	86	
	29006RR	101	5	-	-	-	95	107	111	112	95	
	29008RR	105	5	-	-	-	109	126	112	108	83	
	HS 02R28	101	5	-	-	-	98	106	106	113	92	
	Experimental lines that have been supported for registration in Canada											
		LS 008R21^	117	7	-	111	121	111	112	116	131	116
		25-61RY^	108	7	-	96	113	107	111	105	115	102
		24-60RY^	102	7	-	104	104	112	103	112	98	85
		25-10RY^	108	7	-	109	115	86	114	119	130	106
		25-60RY^	106	7	-	98	107	108	94	119	119	95
	HXR2Y11***^	104	7	-	84	96	109	117	104	106	108	
CHECK YIELD		NSC Portage RR (bu/acre)		38	41	59	82	45	43	53	83	
		CV%		7.29	5.99	5.7	9.7	5.4	4.4	6.7	4.4	
		LSD%		13	10	9	16	9	7	11	7	
		Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

CONVENTIONAL SOYBEANS

New for 2011

Variety	Previous Code	Distributor	Seed Availability
TOMA	-	Program	2011

VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Heat Unit	Variety	Relative Days to Maturity + / - of Check			Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/ lb	Seed ¹ Protein	Lodging* 1-5	IDC	
			Average	2010	2009							Rating 1-5	Grouping
short season		Experimental lines are being tested/proposed for registration in Canada											
		OT09-02	-4	-6	-3	93	6	Y	3152	Normal	2.0	-	-
	2450	OAC Prudence	0	0	0	100	70	Y	2300	Normal	2.7	1.6	Tolerant
	2550	TOMA	4	4	-	101	6	IY	2272	Normal	1.6	-	-
mid season zone		Experimental lines are being tested/proposed for registration in Canada											
		CFS 09.3.02	1	1	-	87	11		2340	-	1.6	-	-
		OAC 06-03	3	3	-	98	6	Gr	2062	-	1.4	-	-
		OAC 07-04C	3	3	-	104	6	BR	2004	-	1.3	-	-
		OT09-03	3	3	-	102	6	Y	2536	Normal	2.4	-	-
		Secan 07-01C	3	4	2	105	11	IY	2084	Medium	2.0	-	-
		OAC 07-03C	4	4	3	99	11	IY	2181	Medium	2.5	-	-
	2575	QGC 16T	5	7	3	92	23	Y	2500	High	2.8	2.5	Susceptible
long season zone		Experimental lines are being tested/proposed for registration in Canada											
		CFS 08.3.00	4	5	3	107	11	IY	2215	Normal	2.3	-	-
		OT06-08	5	6	4	107	11	Y	2026	Medium	3.0	-	-
		OT05-18	5	7	2	100	23	IY	2389	Normal	1.9	-	-
		Secan 08-01C	6	5	6	109	23	IY	2019	Normal	2.0	-	-

CHECK CHARACTERISTICS

OAC Prudence	125	125	125	51	70	Y	2300	Normal	2.7
	days to maturity			bu/acre	site years		seeds/lb		

* Lodging rating averaged across Morris and Portage 2010 sites.

¹ On a whole seed content, Seed Protein in normal soybeans can range from 36% to 42%. Lower protein is usually an indication of poor nodulation during the growing season. Normal type soybeans (most Conventional and Roundup Ready soybeans grown in Manitoba) have a whole seed protein around 40%, mid-level types around 42.5% and high protein types around 45%.

YIELD BY LOCATION – CONVENTIONAL SOYBEANS

Manitoba Variety Zone	Variety	2010 Average Yield	Site Years Tested	2010 Yield: % of OAC Prudence							
				Arborg	Stonewall	Carman	Portage	St. Adolphe	Morris	Rosebank	Morden
short season	Experimental lines are being tested/proposed for registration in Canada										
	OT09-02	93	6	41	89	116	95	110	90	-	-
	OAC Prudence	100	8	100	100	100	100	100	100	100	100
	TOMA	101	6	-	-	110	96	110	94	105	99
mid season zone	Experimental lines are being tested/proposed for registration in Canada										
	CFS 09.3.02	97	6	-	-	122	91	97	90	95	94
	OAC 06-03	98	6	-	-	100	94	97	96	101	98
	OAC 07-04C	104	6	-	-	113	102	112	91	102	109
	OT09-03	102	6	-	-	98	99	118	96	101	107
	OAC 07-03C	112	6	-	-	114	108	109	106	121	115
	Secan 07-01C	97	6	-	-	97	98	93	99	92	103
	QGC 16T	88	6	-	-	80	86	99	89	85	95
long season zone	Experimental lines are being tested/proposed for registration in Canada										
	CFS 08.3.00	105	6	-	-	112	105	110	99	104	102
	OT06-08	96	6	-	-	89	93	92	91	105	102
	OT05-18	107	6	-	-	91	107	112	103	110	114
	Secan 08-01C	104	6	-	-	99	107	107	94	110	98
CHECK YIELD		OAC Prudence (bu/acre)		29	62	52	83	35	46	57	81
			CV%	12.4	4.3	9.1	6.2	10.0	4.1	6.0	2.7
			LSD%	32	9	15	10	17	7	10	5
			Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes