



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, faba beans, edible beans and soybeans) found within this publication is made possible by your continued support through your MPGA check-off levy. Financial assistance was also received from the Agri-Food Research and Development Initiatives (ARDI) and the Agriculture and Agri-food Canada (AAFC) Pulse Science Cluster fund.

TRIAL LOCATION AND DESIGN

The evaluation of dry beans was conducted at three locations (Morden, Carman and Portage la Prairie), under wide row (60 cm) conditions. At each location, the cultivars were repeated three times. There were 39 entries in the evaluation, separated into small- (navy, black), medium- (pinto, yellow) and large-seeded (cranberry, light red and dark red kidney).

IS ONE VARIETY BETTER THAN ANOTHER?

Look at the CV (Coefficient of Variation) and LSD (Least Significant Difference) that are printed within each trial. Coefficient of Variation is a measurement describing the amount of variation caused by factors unrelated to cultivars, such as non-uniform field spots, loss of plants, various water and fertilizer conditions, human errors, etc. Lower CVs (less than 15%) indicate a more uniform trial that will demonstrate the true differences between varieties. For all wide row edible bean trials the LSD represents the amount of beans (in lb/acre) that two varieties must differ before you can say with 95% certainty that a difference exists for those varieties in the same trial. For example, let's say an edible bean trial has an overall mean yield of 2944 lb/acre, a CV of 6%, and LSD of 301 lb/acre, the low CV indicates the trial has very few experimental errors and the LSD indicates variety yields varying by more than 301 lb/acre are truly different. You will notice that in the 2013 trials, yields

for the various sites are listed in one table. You will also note yield was not reported for each location and for each type. Due to the trial CV being greater than 15% and in some cases closer to 20%, it was determined that the yield data was too variable to publish. As stated previously, data with low CV's are preferred because a low CV indicates the trial has very few experimental errors.


In each table, **check varieties are bolded** for easier comparison with other varieties. The best way to determine the suitability of a variety in your area is to see how it pairs with the checks, and in as many different settings and years as possible. Some new cultivars or advanced breeding lines are included in the 2013 evaluation, but most entries have been tested in multiple years.

SOYBEAN VARIETY DESCRIPTION TABLE

You will note there are two new columns added to the soybean tables in 2013. The first is Maturity Grouping. Going forward, we will be using these ratings instead of Company heat units. This grouping is still a company rating but follows what is being done in other areas such as North Dakota and Ontario. The following is a brief explanation of how it works:

In Manitoba, we are growing varieties that range from 000 to 00.9 (triple-zero or double-zero varieties). Triple-zero would be the earliest and 00.9 would

be the latest you would want to grow in Manitoba, and only in long-season areas. A 00.4, 00.5, 00.6 would be best suited for mid-season zones, a 000, 00.1, 00.2, 00.3 would be suited for short-season regions and varieties from 00.7 to 00.9 would be suited to longer-season regions of Manitoba. If you are looking at varieties from a different area with a rating of 0.1, then that variety would be longer maturity than the latest variety that should be grown in Manitoba at 00.9. Keep in mind these are still companies' ratings. Relative days are taken every year and compared to a known check. These ratings are a reflection of the current season's growing conditions and can vary from year to year.

There is also a column for notes that is located in the soybean variety description table. These notes will indicate if a variety has any special features, such as Soybean Cyst Nematode resistance or Race resistance to Phytophthora root rot. These columns will continue to develop as more information is gathered. 

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 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.

SEED AND HARVEST DATES – EDIBLE BEAN TRIALS

	Seeding Date	Harvest Date
Wide Row Edible Bean – Morden	June 11	September 25
Wide Row Edible Bean – Carman	May 29	October 1
Wide Row Edible Bean – Portage	June 6	October 16
Narrow Row Edible Bean – Carberry	May 22	October 7
Narrow Row Edible Bean – Thornhill	June 11	October 9
Narrow Row Edible Bean – Roblin	May 29	September 17

SOYBEAN DATES ARE LISTED WITHIN TABLES

KEY – APPLICABLE TO ALL EDIBLE BEAN CHARTS

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

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.

2013 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

Carman

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
NAVY												
Envoy	99	3	30	0	0	5	47	50	3.0	47	208	3.0
Bolt	102	4	30	0	0	0	53	93	1.7	73	214	3.3
Cargo	100	3	33	0	0	1	47	54	3.0	50	206	3.3
Indi	101	3	22	0	0	0	52	88	1.3	85	177	3.0
ISB 1815-2	101	3	20	0	0	0	54	74	2.7	73	171	2.7
ISB 1816	101	3	20	0	0	3	54	79	2.7	75	166	2.7
Lightning	101	3	27	0	0	0	51	74	1.3	82	202	3.3
Nautica	107	3	17	0	0	4	55	71	1.7	87	171	3.0
NAVC6V1200	103	3	10	0	0	0	55	83	2.3	83	204	3.0
OAC Spark	94	4	30	0	0	0	47	53	2.3	73	187	3.0
Portage	102	3	3	0	0	0	55	64	2.0	73	181	3.2
T9903	99	3	15	0	0	3	52	67	3.0	57	207	3.3
T9905	103	3	25	0	0	3	52	85	2.7	63	191	3.0
Mean	101	3	22	0	0	1	52	72	2	71	191	3
BLACK												
Eclipse	97	3	33	0	0	2	53	65	1.7	88	181	3.0
BKBC6V 1312	99	3	18	0	0	5	55	76	1.3	88	170	3.0
Blackjack	103	3	23	0	0	5	54	70	3.0	57	180	3.0
Carman	100	3	30	0	0	1	52	64	1.0	90	212	3.5
CDC Jet	101	3	13	0	0	1	53	68	1.7	85	201	3.2
CDC Superjet	100	3	23	0	0	2	54	58	2.0	77	196	3.3
cob 2159-00	108	3	8	0	0	6	55	86	3.0	70	227	3.3
GTS 1103	102	3	18	0	0	1	55	71	2.7	70	183	3.2
Mean	101	3	21	0	0	3	54	70	2.0	78	194	3
Overall Trial Mean	101	3	21	0	0	2	53	71	2	74	192	3

Morden

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
NAVY												
Envoy	91	4	40	0	0	7	40	51	2.3	58	189	2.8
Bolt	98	4	27	0	0	3	45	90	1.3	78	220	2.8
Cargo	92	4	22	0	0	1	40	60	2.7	63	188	3.2
Indi	96	4	10	0	0	0	48	80	1.3	88	173	2.7
ISB 1815-2	95	4	50	0	0	0	47	82	2.3	87	161	2.7
ISB 1816	96	4	53	0	0	1	49	83	2.0	73	160	2.7
Lightning	97	3	12	0	0	0	46	81	1.7	83	188	3.0
Nautica	98	3	8	0	0	0	50	67	1.7	82	167	2.7
NAVC6V1200	99	4	15	0	0	2	50	82	1.7	73	206	2.5
OAC Spark	84	4	50	0	0	0	40	63	1.7	85	173	2.8
Portage	96	3	1	0	0	3	46	57	2.3	68	186	2.8
T9903	97	3	10	0	0	5	45	87	2.0	70	206	2.8
T9905	99	3	3	0	0	0	48	77	2.0	68	201	2.8
Mean	95	4	23	0	0	2	46	74	2	75	186	3
BLACK												
Eclipse	90	4	8	0	0	8	45	74	2.0	82	178	3.2
BKBC6V 1312	96	3	3	0	0	0	50	71	1.3	83	185	3.0
Blackjack	95	4	20	0	0	1	49	78	3.0	53	175	2.3
Carman	89	3	3	0	0	0	48	70	2.0	87	185	2.5
CDC Jet	92	3	5	0	0	1	47	73	2.0	90	181	3.2
CDC Superjet	93	3	3	0	0	3	46	70	2.7	60	183	3.2
cob 2159-00	101	4	2	0	0	8	50	98	3.7	33	228	2.3
GTS 1103	98	3	3	0	0	1	49	80	2.3	63	204	3.0
Mean	94	3	6	0	0	3	48	77	2.4	69	190	2.8
Overall Trial Mean	95	3	17	0	0	2	47	75	2	73	187	3

Portage

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
NAVY												
Envoy	103	3	10	0	8	32	54	55	3.0	97	180	2.5
Bolt	109	4	7	0	1	23	60	77	2.0	100	201	2.7
Cargo	105	4	3	0	2	22	56	61	3.3	98	182	2.3
Indi	107	3	3	0	0	7	58	81	2.0	98	155	2.5
ISB 1815-2	110	4	17	0	0	60	61	78	3.0	97	140	2.5
ISB 1816	109	4	12	0	0	53	60	75	2.7	100	143	2.3
Lightning	109	3	2	0	1	11	60	76	2.7	92	178	2.5
Nautica	111	3	2	0	0	13	59	72	3.0	93	151	2.5
NAVC6V1200	110	3	2	0	0	23	61	70	2.7	97	170	2.5
OAC Spark	101	3	2	0	5	60	52	64	4.0	90	157	2.5
Portage	104	3	1	0	0	10	55	61	3.0	97	162	2.5
T9903	102	3	4	0	0	21	53	68	3.0	100	166	2.5
T9905	105	3	4	0	0	23	56	77	3.3	95	175	2.7
Mean	107	3	5	0	1	28	57	70	3	96	166	3
BLACK												
Eclipse	103	3	2	0	0	17	54	73	3.0	100	156	2.0
BKBC6V 1312	101	3	3	0	0	16	49	74	3.0	100	153	1.8
Blackjack	108	3	7	0	0	22	55	73	3.3	90	154	1.8
Carman	105	3	3	0	0	10	56	72	2.7	100	190	2.5
CDC Jet	99	3	1	0	3	19	50	74	3.0	100	169	2.2
CDC Superjet	99	4	3	0	0	28	50	71	3.3	93	174	2.2
cob 2159-00	109	3	1	0	3	17	54	77	3.0	75	184	2.0
GTS 1103	110	4	2	0	0	12	61	66	3.3	92	159	2.3
Mean	104	3	3	0	1	17	54	72	3.1	94	167	2.1
Overall Trial Mean	106	3	4	0	1	24	56	71	3	95	167	2

2013 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

Carman

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0–5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1–5	PD HT % >5cm	TKW g	Qual 1–5
PINTO												
Windbreaker	100	3	13	0	0	0	51	63	2.0	57	363	3.8
DJ09-1012	98	3	27	0	0	0	48	87	1.3	73	330	3.7
Mariah	98	3	15	0	0	12	52	85	2.3	63	307	2.7
Maverick	97	3	12	0	0	10	48	84	2.3	58	339	2.8
Max	95	3	20	0	0	2	48	87	3.0	40	407	3.8
Medicine Hat	96	3	10	0	0	2	50	81	2.3	47	396	2.8
ND-307	101	3	7	0	0	20	52	92	3.0	58	346	3.2
Sequoia	99	3	30	0	0	5	51	78	2.3	62	337	3.3
Stampede	99	3	10	0	0	1	52	77	1.0	90	321	3.8
WM-II	97	3	13	0	0	2	48	63	2.0	60	405	3.3
Mean	98	3	16	0	0	5	50	80	2	61	355	3
YELLOW												
CDC Sol	103	3	22	0	0	0	48	50	2.0	57	491	2.8
Overall Trial Mean	99	3	16	0	0	5	50	77	2	60	367	3

Morden

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0–5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1–5	PD HT % >5cm	TKW g	Qual 1–5
PINTO												
Windbreaker	94	3	2	0	0	0	46	68	2.3	57	339	3.3
DJ09-1012	89	4	15	0	0	0	45	75	1.7	83	295	3.2
Mariah	88	4	17	0	0	0	48	73	2.0	73	286	3.2
Maverick	93	4	25	0	0	0	46	90	3.0	40	302	3.5
Max	86	4	42	0	0	10	45	74	3.3	47	350	3.2
Medicine Hat	86	4	38	0	0	0	47	78	1.7	77	308	3.2
ND-307	95	3	7	0	0	0	46	72	1.7	70	346	3.5
Sequoia	88	4	42	0	0	2	46	87	2.0	73	307	3.3
Stampede	94	3	7	0	0	0	47	70	2.0	63	305	3.3
WM-II	87	4	20	0	0	0	41	67	2.0	70	323	3.2
Mean	90	4	21	0	0	1	46	75	2	65	316	3
YELLOW												
CDC Sol	96	4	25	0	0	0	41	62	1.3	63	419	2.8
Overall Trial Mean	91	4	22	0	0	1	45	74	2	65	325	3

Portage

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
PINTO												
Windbreaker	100	3	1	0	0	32	48	63	3.3	87	290	2.5
DJ09-1012	100	3	1	0	1	37	48	61	3.0	93	291	2.3
Mariah	105	4	3	0	0	47	48	66	3.3	82	283	2.2
Maverick	108	3	4	0	6	33	48	61	3.7	47	310	2.5
Max	97	4	5	0	12	57	48	68	3.3	58	322	2.5
Medicine Hat	97	3	5	0	4	47	48	62	3.0	73	310	2.5
ND-307	106	3	1	0	2	45	48	68	3.3	87	318	2.5
Sequoia	107	3	1	0	6	25	48	67	3.3	97	310	2.5
Stampede	109	3	1	0	0	37	50	65	3.0	87	283	2.5
WM-II	104	3	3	0	1	42	48	67	3.3	88	306	2.5
Mean	103	3	3	0	3	40	48	65	3	80	302	3
YELLOW												
CDC Sol	109	4	6	0	0	17	48	65	3.0	93	464	2.5
Overall Trial Mean	104	3	3	0	3	38	48	65	3	81	317	3

2013 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

Carman

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
LIGHT RED KIDNEY												
Pink Panther	105	4	43	0	0	0	49	61	2.0	70	655	3.2
Clouseau	106	4	43	0	0	0	49	67	2.0	70	708	3.2
Mean	106	4	43	0	0	0	49	64	2	70	681	3
DARK RED KIDNEY												
1013	105	4	22	0	0	0	48	65	2.0	68	545	3.0
1030	105	4	40	0	0	0	48	61	2.3	67	572	2.7
Mean	105	4	31	0	0	0	48	63	2	68	559	3
CRANBERRY												
Cran 09	97	3	27	0	0	4	47	60	2.0	55	565	2.5
1031	102	4	25	0	0	3	48	56	1.7	43	652	3.3
Etna	102	4	42	0	0	0	48	52	2.0	37	664	2.2
Krimson	102	4	37	0	0	0	48	57	2.7	30	672	2.3
Mean	101	4	33	0	0	2	48	56	2	41	638	3
Overall Trial Mean	103	4	35	0	0	1	48	60	2	55	629	3

LARGE SEED SIZE continued

Morden

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
LIGHT RED KIDNEY												
Pink Panther	100	4	15	0	0	0	42	64	1.3	50	591	2.5
Clouseau	100	4	16	0	0	0	42	69	1.7	50	635	2.5
Mean	100	4	15	0	0	0	42	67	2	50	613	3
DARK RED KIDNEY												
1013	101	4	13	0	0	1	43	71	2.3	33	530	2.3
1030	101	4	37	0	0	0	43	66	2.3	37	504	1.8
Mean	101	4	25	0	0	0	43	69	2	35	517	2
CRANBERRY												
Cran 09	109	4	35	0	0	0	41	62	2.0	60	444	2.0
1031	94	4	28	0	0	0	42	63	1.3	67	494	2.2
Etna	94	4	35	0	0	0	43	64	1.0	67	548	2.2
Krimson	100	4	7	0	0	0	42	62	2.3	33	556	2.2
Mean	99	4	26	0	0	0	42	63	2	57	510	2
Overall Trial Mean	100	4	23	0	0	0	42	65	2	50	538	2

Portage

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	TKW g	Qual 1-5
LIGHT RED KIDNEY												
Pink Panther	111	4	7	0	0	17	49	74	3.3	85	575	1.7
Clouseau	111	4	10	0	0	20	49	77	3.7	77	595	1.7
Mean	111	4	8	0	0	18	49	76	4	81	585	2
DARK RED KIDNEY												
1013	111	3	3	0	0	20	51	73	4.0	78	487	1.5
1030	111	3	17	0	0	10	52	74	3.7	68	503	1.7
Mean	111	3	10	0	0	15	52	74	4	73	495	2
CRANBERRY												
Cran 09	109	3	5	0	0	35	49	70	3.0	95	466	1.5
1031	110	4	8	0	0	5	49	67	3.3	85	557	1.5
Etna	111	4	12	0	0	17	49	78	2.7	98	547	1.5
Krimson	111	3	4	0	0	3	49	75	3.7	80	512	1.5
Mean	110	4	7	0	0	15	49	73	3.2	90	520	2
Overall Trial Mean	111	4	8	0	0	16	50	74	3	83	530	2

2013 WIDE ROW SCREENING TRIAL – YIELDS

Yield was not reported for each location and for each type. Due to the trial CV being greater than 15% and in some cases closer to 20%, it was determined that the yield data was too variable to publish.

SMALL SEED SIZE				MEDIUM SEED SIZE		LARGE SEED SIZE		
Morden				Morden		Portage		
		Yield (lb/acre)			Yield (lb/acre)			Yield (lb/acre)
NAVY BEANS			BLACK BEANS			PINTO		
Envoy	2120		Eclipse	2819	Windbreaker	2674	Pink Panther	2054
Bolt	2334		Blackjack	2773	DJ09-1012	2546	Clouseau	2014
Cargo	2256		CDC Jet	2100	Mariah	2012		
Indi	3115		CDC Superjet	2136	Maverick	2189		
ISB 1815-2	2427		Carman	2052	Max	1569	DARK RED KIDNEY	
ISB 1816	2235		BKBC6V 1312	2341	Medicine Hat	2394	1013	1385
Lightning	2397		GTS 1103	2614	ND-307	2400	1030	1831
Nautica	2509		cob 2159-00	2761	Sequoia	2217		
NAVC6V1200	2735				Stampede	2327	CRANBERRY	
OAC Spark	2354				WM-II	2207	Cran 09	2257
Portage	2065						1031	2658
T9903	2213				YELLOW		Etna	2310
T9905	2746				CDC Sol	2301	Krimson	1731
Overall Trial Mean	2424		2424		2258		2030	
CV%	14.3		CV%	14.3	CV%	11.1	CV%	12.8
LSD	571		LSD	571	LSD	427	LSD	456



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

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SUMMARY – 2013 LONG SEASON WIDE ROW DRY BEAN REGIONAL TRIALS

MARKET CLASS/Variety	Days to Maturity	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	Days to Flower	HT cm	LDG 1-5	PD HT % >5cm	Plant Type	TKW g	Qual 1-5
NAVY													
Envoy	98	4	27	0	3	14	47	52	3	67	1	192	3
Bolt	103	4	21	0	0	9	53	87	2	84	2	212	3
Cargo	99	4	19	0	1	8	48	58	3	71	1	192	3
Indi	101	3	11	0	0	2	53	83	2	91	2	168	3
ISB 1815-2	102	4	29	0	0	20	54	78	3	86	2	157	3
ISB 1816	102	4	29	0	0	19	54	79	2	83	2	157	3
Lightning	102	3	13	0	0	4	52	77	2	86	2	189	3
Nautica	105	3	9	0	0	6	55	70	2	87	2	163	3
NAVC6V1200	104	4	9	0	0	8	56	78	2	84	2	193	3
OAC Spark	93	4	27	0	2	20	46	60	3	83	1	172	3
Portage	101	3	2	0	0	4	52	61	2	79	2	176	3
T9903	99	3	10	0	0	10	50	74	3	76	2	193	3
T9905	102	3	11	0	0	9	52	80	3	76	2	189	3
BLACK													
Eclipse	97	3	15	0	0	9	51	71	2	90	2	172	3
BKBC6V 1312	99	3	8	0	0	7	52	74	2	91	2	170	3
Blackjack	102	3	17	0	0	9	53	74	3	67	2	169	2
Carman	98	3	12	0	0	4	52	68	2	92	2	196	3
CDC Jet	97	3	7	0	1	7	50	72	2	92	2	184	3
CDC Superjet	97	3	10	0	0	11	50	66	3	77	2	185	3
cob 2159-00	106	3	4	0	1	10	53	87	3	59	2	213	3
GTS 1103	103	3	8	0	0	4	55	72	3	75	2	182	3
PINTO													
Windbreaker	98	3	5	0	0	11	48	65	3	67	2	331	2
DJ09-1012	96	3	14	0	0	12	47	74	2	83	2	305	2
Mariah	97	4	12	0	0	19	49	75	3	73	2	292	2
Maverick	100	3	14	0	2	14	47	78	3	48	2	317	2
Max	93	4	22	0	4	23	47	76	3	48	2	360	2
Medicine Hat	93	3	18	0	1	16	48	74	2	66	2	338	2
ND-307	101	3	5	0	1	22	49	77	3	72	2	337	2
Sequoia	98	3	24	0	2	11	48	77	3	77	2	318	2
Stampede	101	3	6	0	0	12	49	71	2	80	2	303	2
WM-II	96	4	12	0	0	15	46	66	2	73	2	345	2
YELLOW													
CDC Sol	103	4	17	0	0	6	45	59	2	71	1	458	2
LIGHT RED KIDNEY													
Pink Panther	106	4	22	0	0	6	47	67	2	68	1	607	2
Clouseau	106	4	23	0	0	7	47	71	2	66	1	646	2
DARK RED KIDNEY													
1013	106	4	13	0	0	7	47	70	3	60	1	521	2
1030	106	4	31	0	0	3	48	67	3	57	1	527	2
CRANBERRY													
Cran 09	105	4	22	0	0	13	46	64	2	70	1	491	2
1031	102	4	21	0	0	3	46	62	2	65	1	568	2
Etna	102	4	29	0	0	6	47	65	2	67	1	586	2
Krimson	104	4	16	0	0	1	46	64	3	48	1	580	2

2013 DRY BEAN REGIONAL NARROW ROW

MARKET CLASS/Variety	Yield lb/acre			Thornhill				Roblin	
	Thornhill	Carberry	Roblin	Days to Maturity	Plant Ht cm	LDG 1-5	Pod Ht >5cm	Days to Flower	Plant Ht cm
NAVY									
Envoy	2680	2876	3900	104	59	3.7	35	54	42
1190m-13	3428	2903	4435	103	78	2.7	53	62	53
2918-25	4555	3300	3753	99	57	1.3	82	55	45
Lightning	3579	2737	3975	106	84	1.7	70	65	59
OAC Spark	2528	2398	3586	94	60	2.3	73	57	38
Portage	2465	2291	2637	106	58	2.0	52	65	50
BLACK									
2921-14	4301	3547	5322	97	63	1.3	67	55	43
Carman Black	4173	3375	3877	106	65	2.0	62	60	50
CDC Blackcomb	3541	3395	4591	103	55	1.7	60	56	45
CDC Jet	3253	3269	3956	105	63	2.3	63	60	51
CDC Superjet	4068	3189	5102	104	69	3.3	37	59	51
Mean	3506	3025	4103	102	65	2.2	59	59	48
PINTO									
CDC Pintium	2465	2041	2692	87	62	2.0	83	50	41
CDC Marmot (2537-12)	3115	2523	4062	93	49	2.7	60	49	35
CDC WM-2	3838	3012	3787	102	82	2.7	47	54	67
Island	3155	2447	4182	102	85	2.7	57	58	75
Mariah	4035	2628	4226	101	76	2.7	60	65	62
Winchester	2681	2738	3944	100	82	2.0	67	51	64
Winmor	2967	2332	3936	102	92	2.3	53	65	66
Mean	3179	2532	3833	98	75	2.4	61	56	59
Overall Trial Mean	3379	2833	3998	101	69	2	60	58	52
CV%	10	9	10						
LSD	584	424	649						

NATTO SOYBEANS – REPRINT FROM 2012

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)	2012 Yield: % of OAC Prudence										
			Average	2012	2011	2010						Carman	St. Adolphe	Morris	Rosebank	Morden						
Short Season	2375	AG QGC 12N	-8	-	-7	-9	77	40	2.8	5200	2.3	-	-	-	-	-						
Mid Season	2475	OAC Prudence	0	0	0	0	100	49	1.7	2300	1.6	100	100	100	100	100						
Experimental lines that have been supported for registration in Canada																						
		Colibri	3	-	3	-	81	22	1.2	7350	-	-	-	-	-	-						
		OT 08-05	2	1	1	3	91	20	2.3	4300	-	106	104	92	86	89						
CHECK CHARACTERISTICS											OAC Prudence (bu/acre)	48.17	35.74	38.4	74.6	73.9						
OAC Prudence											115	114	106	125	49	49	CV%	3.9	4.8	6.1	6.5	6.9
											days to maturity				bu/acre	site years	LSD%	7.7	9.04	10.4	10.2	12.2
																	Sign Diff	Yes	Yes	Yes	Yes	Yes

*Lodging ratings (1-5) were averaged across Morris, St. Adolphe and Carman sites.

Seeding Date	14-May	09-May	12-May	17-May	16-May
Harvest Date	24-Sep	18-Sep	24-Sep	27-Sep	19-Sep

WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

In 2013, trials were located at Carberry, Hamiota, Melita, and Roblin

VARIETY DESCRIPTIONS

Variety	Company Heat Units	Yield % Check	Site Years Tested	Days to Maturity ¹ +/- Check	2013 Yield % of 23-10RY				
					Carberry	Melita	Hamiota	Roblin	
P001T34R	2300	82	4	-7	83	96	65	105	
29002RR	2375	87	9	-6	104	54	77	93	
NSC Anola RR2Y	2350	109	4	-2	113	94	107	120	
TH 33003R2Y	2400	106	5	-2	113	108	93	130	
NSC Moosomin RR2Y	2300	100	4	-2	101	91	78	130	
23-10RY	2325	100	10	0	100	100	100	100	
Bishop R2	2450	98	5	0	107	112	82	107	
McLeod R2	2375	112	5	0	125	102	110	129	
NSC Tilston RR2Y	2375	110	5	0	122	107	106	130	
LS 002R23	2375	111	5	1	130	96	108	127	
Pekko R2	2325	95	10	1	93	100	99	47	
900Y71	2450	103	10	1	119	143	90	102	
TH 32004R2Y	2425	115	10	1	131	121	114	127	
NSC Libau RR2Y	2375	101	5	2	109	133	99	79	
NSC Reston RR2Y	2325	99	5	2	103	116	106	83	
900Y61	2425	101	10	2	112	127	98	107	
Vito R2	2350	101	5	2	110	103	83	110	
PRO 2525R2	2450	120	4	3	127	115	128	110	
Sampsa R2	2425	96	10	5	93	111	79	79	
Experimental lines that have been supported for registration in Canada									
LS002R24N		113	4	0	109	101	123	121	
NSC Gladstone RR2Y		113	4	0	116	119	103	113	
EXP00313R2		105	4	1	111	98	103	105	
TH 33005R2Y		116	4	3	121	101	126	113	
FLZ612A4		107	4	5	98	121	99	116	
CHECK CHARACTERISTICS				23-10RY (bu/acre)	58	37	47	42	
23-10 RY		48	10	135	CV%	7.7	14.2	9.3	6.5
		bu/ acre	site years	days to maturity	LSD%	13	23	15	11
				Sign Diff	Yes	yes	Yes	Yes	
				Seeding Date	16-May	16-May	26-May	22-May	
				Harvest Date	18-Oct	10-Oct	15-Oct	17-Oct	

¹ Maturity based on data from Carberry and Melita.

Not all varieties reached 95% brown pod in Roblin and Hamiota before first frost.

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 Maturity grouping is a ranking of maturity provided by seed suppliers. These rankings are assigned to varieties to assist growers to select varieties suited for their area. For future years, maturity grouping will be used instead of CHU Ranking.
- 4 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. Growers need to be cautious when using only one-year data when evaluating maturity and yield. Using multiple-year maturity data when available will give you a better indication on how a variety will mature with different growing seasons. 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 Clear (CL), Yellow (Y), Imperfect Yellow (IY), Grey (GR), Brown (BR), Light Brown (LBR), Buff (BF), Imperfect Buff (IB) 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 one site 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.

CONVENTIONAL SOYBEANS

Manitoba Variety Zone	Company Heat Unit	Variety	Relative Days to Maturity ¹ + / - of Check			Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/lb	Lodging ²	
			Average	2013	2012					Clay	Loam
Mid Season Zone	2450	OAC Prudence	0	0	0	100	82	Y	2691	1.1	1.8
		AAC Mandor (OT09-03)	2	3	1	109	23	Y	2465	1.0	2.3
		Experimental lines are being tested/proposed for registration in Canada									
		OT11-01	-4	-2	-5	112	10	IY	3106	1.1	1.3
		OAC 11-02C	5	6	4	111	11	Y	2408	1.1	1.7
Long Season Zone	Experimental lines are being tested/proposed for registration in Canada										
	OT11-03	5	5	5	116	11	Y	2223	1.0	1.3	
	SeCan 11-05C	2	5	0	110	17	Y	2364	1.0	2.1	
	OT12-02	8	8	-	117	6	Y	2699	1.1	2.2	
CHECK CHARACTERISTICS											
OAC Prudence			114	114	114	50	82				
			days to maturity			bu/acre	site years				

¹ Maturity ratings for 2013 are average across Carman, Morris, St. Adolphe, Portage

² Lodging ratings are average across Loams (Portage and Carman) and Clays (St. Adolphe, Morris)

YIELD BY LOCATION – CONVENTIONAL SOYBEANS

Manitoba Variety Zone	Variety	2013 Average Yield	Site Years Tested	2013 Yield: % of OAC Prudence						
				Core Sites				Late Sites		
				Carman	Morris	Portage	St. Adolphe	Rosebank	Morden	
	OAC Prudence	100	6	100	100	100	100	100	100	
	AAC Mandor (OT09-03)	119	6	123	121	105	118	125	127	
Mid Season Zone	Experimental lines are being tested/proposed for registration in Canada									
	OT11-01	110	6	111	108	103	108	136	97	
	OAC 11-02C	112	6	110	119	105	115	116	110	
Lon Season Zone	Experimental lines are being tested/proposed for registration in Canada									
	OT11-03	117	6	110	123	112	98	130	126	
	SeCan 11-05C	118	6	107	120	111	118	135	116	
	OT12-02	117	6	117	119	122	114	117	115	
CHECK CHARACTERISTICS		OAC Prudence (bu/acre)		47	37	71	48	60	64	
		CV%		5.1	4.6	3.9	3.7	6.1	6.0	
		LSD%		9	8	7	6	10	10	
		Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes	
				Seeding Date	17-May	24-May	17-May	16-May	24-May	16-May
				Harvest Date	04-Oct	25-Sep	05-Oct	02-Oct	17-Oct	04-Oct

ROUNDUP READY SOYBEANS

New for 2014

Variety	Previous Code	Distributor	Seed Availability	Variety	Previous Code	Distributor	Seed Availability
00703	DAS 007R3	Hyland Seeds	2014	NSC Niverville RR2Y	NSM EXP 1209N R2	Northstar Genetics Manitoba	2013
24-61RY	24-61RY	DEKALB	2014	NSC Reston RR2Y	NSM EXP 1225 R2	Northstar Genetics Manitoba	2013
Gray R2	SC2450R2	Secan	2013	NSC Tilston RR2Y	NSMR2-EXP G10	Northstar Genetics Manitoba	2013
HS 007RY32	HX 007RY32	Hyland Seeds	2014	P001T34R	PH12004	DuPont Pioneer	2014
LS 002R23	LS 002R23	Delmar Commodities	2013	S007-Y4	AR1111955	Syngenta Canada	2014
McLeod R2	SC2375R2	Secan	2013	S00-T9	X2R00922	Syngenta Canada	2013
NSC Moosomin RR2Y	NSC Moosomin RR2Y	Northstar Genetics Manitoba	2014	TH 33003R2Y	TH 33003R2Y	Quarry Seeds Ltd	2013

VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Heat Unit	Maturity Grouping	Variety	1Type	Relative Days to Maturity ² + / - of Check			Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/ lb	Lodging ³		IDC ⁴		Notes ⁵	
					Average	2013	2012					Clay	Loam	Rating (1-5)	Grouping		
Short Season Zone	2300	00.1	P001T34R	RR1	-10	-12	-8	75	11	BR	2935	1.0	1.0	2.0	ST	-	
	2300	000	NSC Moosomin RR2Y	R2Y	-8	-8	-	82	6	BR	3209	1.0	1.2	2.5	S	-	
	2325	000	Pekko R2	R2Y	-5	-5	-5	96	16	BL	2389	1.0	1.3	2.1	ST	-	
	2325	00.1	NSC Reston RR2Y	R2Y	-5	-5	-4	101	12	BL	2653	1.2	2.3	2.9	S	1k	
	2325	00.1	23-10RY	R2Y	-4	-4	-4	96	18	BL	3128	1.1	1.4	1.8	ST	1c	
	2400	00.7	S007-Y4	R2Y	-4	-4	-	104	6	IY	2441	1.0	1.7	2.0	ST	1k	
	2450	00.2	Bishop R2	R2Y	-4	-4	-3	94	17	IY	2987	1.3	2.3	2.8	S	-	
	2350	00.2	NSC Anola RR2Y	R2Y	-3	-4	-1	102	16	BL	2930	1.1	2.0	1.8	ST	1c	
	2425	00.4	TH 32004R2Y	R2Y	-3	-4	-1	105	18	BL	3400	1.4	2.2	1.7	ST	1c	
	Experimental lines that have been supported for registration in Canada																
				PH12005	RR1	-5	-5	-	85	85	IY	2936	1.0	1.5	2.1	ST	-
				FLZ612A4	R2Y	-3	-3	-	100	6	BL	2965	1.2	2.0	1.7	T	-
				EXP00313R2	R2Y	-3	-3	-	99	6	BL	2550	1.3	2.0	1.8	ST	SCN
				LS002R24N	R2Y	-2	-2	-	101	6	BL	2500	1.6	2.3	1.9	ST	SCN
	Mid Season Zone	2375	00.2	LS 002R23	R2Y	-2	-2	-1	102	12	BL	2719	1.1	1.5	1.9	ST	-
2450		00.7	S00-B7	R2Y	-2	-4	0	93	11	BL	2377	2.1	2.5	2.3	S	1a	
2400		00.3	TH 33003R2Y	R2Y	-1	-2	0	101	15	BR	3200	1.4	2.3	1.7	ST	1c	
2475		00.6	Chadburn R2	R2Y	-1	-1	-1	100	19	BL	3086	1.0	1.5	1.7	T	-	
2375		00.3	McLeod R2	R2Y	-1	-2	0	104	12	BL	2473	1.1	1.3	1.7	T	-	
2350		00.3	Vito R2	R2Y	-1	-1	-1	96	16	GR	3160	1.5	2.3	1.7	ST	1k	
2375		00.4	NSC Libau RR2Y	R2Y	-1	0	-1	100	18	BL	2800	1.0	1.6	1.8	ST	1c	
2375		00.4	NSC Tilston RR2Y	R2Y	0	-1	1	101	16	BL	2965	1.1	2.4	1.9	ST	-	
2425		00.5	NSC Elie RR2Y	R2Y	0	-1	1	104	19	BL	2673	1.0	1.8	2.3	ST	1k	
2425		00.4	004R21	R2Y	0	0	0	100	22	BL	3153	1.0	1.9	1.6	T	1a	
2425		00.5	24-10RY	R2Y	0	0	0	104	22	IB	2645	1.0	1.8	2.2	ST	1k	
2425		00.6	900Y61	RR1	1	-1	2	96	18	BR	2608	1.0	1.5	1.6	T	1c	
2450		00.7	900Y71	RR1	1	1	1	98	18	IY	2935	1.0	1.9	1.7	T	1c	
2450		00.5	Gray R2	R2Y	1	0	1	101	12	BL	3300	1.0	1.5	2.0	ST	1c	
2425		00.8	Sampsa R2	R2Y	1	0	1	106	14	IB	2092	1.0	1.3	2.0	ST	1c	
2425	00.3	LS 003R22	R2Y	1	1	0	101	18	BL	2827	1.1	2.1	1.8	ST	-		
2450	00.6	HS 006RYS24	R2Y	1	1	1	103	17	BL	2900	1.1	2.1	1.7	T	SCN		
2500	00.8	Beurling R2	R2Y	1	0	2	94	17	BL	3220	2.4	3.1	2.1	ST	-		
Experimental lines that have been supported for registration in Canada																	
			NSC Gladstone RR2Y	R2Y	-1	-1	-	99	6	BL	2620	1.1	2.8	1.8	ST	-	
			TH 33005R2Y	R2Y	-1	-2	1	113	12	BL	2500	1.1	1.8	1.8	ST	1c,1k	
			S00-N6	R2Y	0	0	-	99	6	BL	3006	1.1	2.6	2.5	S	-	
			TH 34006R2Y	R2Y	0	0	-	106	6	BL	2800	1.1	2.0	2.3	S	-	
			SC2380 R2	R2Y	1	1	-	98	6	BL	2830	1.2	3.0	2.0	ST	1c	
			CFS 12.302R2	R2Y	-1	-2	0	104	11	BL	2142	1.1	2.3	NT	NT	-	
Long Season Zone	2500	00.7	HS 007RY32	R2Y	2	2	2	111	11	BL	2950	1.1	1.7	1.8	ST	1c,1k	
	2525	00.7	PS 0074 R2	R2Y	2	1	3	107	11	BR	2900	1.3	3.0	1.6	T	-	
	2450	00.6	NSC Niverville RR2Y	R2Y	2	2	2	111	11	BL	4093	1.1	2.7	1.6	T	SCN,1c	
	2475	00.6	LS 006R21	R2Y	3	2	3	104	14	BL	2999	1.1	1.4	2.0	ST	-	
	2475	00.7	NSC Richer RR2Y	R2Y	3	2	3	109	16	BL	2937	1.1	2.3	1.6	T	1c	
	2500	00.7	LS 007R22	R2Y	3	2	4	109	11	BL	3278	1.4	3.0	2.3	ST	-	
	2500	00.9	S00-T9	R2Y	3	1	4	114	11	BL	2383	1.0	1.8	1.6	T	1k	
	2475	00.7	24-61RY	R2Y	3	3	-	104	6	BL	3094	1.0	1.8	1.7	T	1c	
	2500	00.8	PS 0083 R2	R2Y	3	3	3	99	16	BL	2600	1.0	1.5	2.3	S	-	
	2475	00.7	00703	R2Y	3	3	3	109	11	BR	2900	1.0	1.9	2.6	S	-	
	2475	00.5	LS 005R22	R2Y	3	3	3	101	11	BL	2886	1.1	2.1	1.8	ST	-	
	2500	00.8	Currie R2	R2Y	4	5	3	108	17	BL	2950	1.1	2.3	1.8	ST	1k	
	2500	00.9	25-10RY	R2Y	5	4	5	107	14	BL	2310	1.2	2.2	1.8	ST	1c	
	2525	00.7	Astro R2	R2Y	6	6	5	112	14	BL	3100	1.0	2.2	1.9	ST	1k	
	Experimental lines that have been supported for registration in Canada																
			LS005R24	R2Y	4	4	-	111	6	BL	2760	1.3	2.6	1.8	ST	-	

CHECK CHARACTERISTICS

004R21	117	120	115	50	22
	days to maturity			bu/acre	site years

¹R2Y Indicates Genuity Roundup Ready 2 Yield™ Soybeans

²Maturity Ratings for 2013 are average across Carman, Morris, St. Adolphe, Portage

³Lodging ratings are average across Loams (Portage and Carman) Clays (St. Adolphe, Morris)

⁴IDC Groupings ST = Semi-Tolerant T = Tolerant S = Susceptible

⁵Notes 2a, 1c, etc. Phytoph. Resist. gene SCN – SCN Resistance

NT – Not Tested

 Plant Breeders' Rights

YIELD BY LOCATION – ROUNDUP READY SOYBEANS

2013 Yield: % of 004R21

Manitoba Variety Zone	Variety	2013 Average Yield	Site Years Tested	Early Sites		Core Sites			Late Sites		
				Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
Short Season Zone	P001T34R	69	6	56	84	71	72	71	64	-	-
	NSC Moosomin RR2Y	82	6	73	88	93	94	72	78	-	-
	Pekko R2	91	6	83	87	95	96	91	96	-	-
	NSC Reston RR2Y	94	6	91	100	98	99	84	99	-	-
	23-10RY	84	6	67	90	84	85	88	90	-	-
	S007-Y4	104	6	89	111	114	102	101	112	-	-
	Bishop R2	89	6	84	95	99	93	80	90	-	-
	NSC Anola RR2Y	98	6	85	103	101	100	93	111	-	-
	TH 32004R2Y	100	6	87	108	104	99	95	110	-	-
	Experimental lines that have been supported for registration in Canada										
	PH12005	77	6	65	88	86	74	74	78	-	-
	FLZ612A4	100	6	84	107	115	104	89	106	-	-
	EXP00313R2	99	6	91	103	99	99	101	102	-	-
	LS002R24N	101	6	96	99	102	104	97	109	-	-
Mid Season Zone	LS 002R23	97	6	85	97	99	104	98	101	-	-
	S00-B7	94	6	92	99	103	100	83	97	-	-
	TH 33003R2Y	97	6	87	90	110	98	96	102	-	-
	Chadburn R2	98	6	91	92	99	103	95	110	-	-
	McLeod R2	99	6	98	104	105	98	97	95	-	-
	Vito R2	93	6	85	94	96	104	86	95	-	-
	NSC Libau RR2Y	97	6	88	94	97	99	99	102	-	-
	NSC Tilston RR2Y	96	6	90	95	107	98	91	99	-	-
	NSC Elie RR2Y	97	6	95	99	101	97	94	98	-	-
	004R21	100	8	100	100	100	100	100	100	100	100
	24-10RY	99	8	87	100	102	99	96	101	110	95
	900Y61 ☺	92	6	82	98	95	89	93	92	-	-
	900Y71 ☺	93	6	82	99	98	94	93	95	-	-
	Gray R2	99	6	88	93	112	102	92	108	-	-
	Sampsa R2	102	6	-	-	105	99	93	106	128	88
	LS 003R22	90	6	78	93	96	98	83	98	-	-
	HS 006RYS24	102	6	93	105	105	108	97	105	-	-
	Beurling R2	97	6	-	-	100	100	94	95	112	83
Experimental lines that have been supported for registration in Canada											
	NSC Gladstone RR2Y	99	6	93	102	103	103	94	104	-	-
	TH 33005R2Y	109	6	-	-	120	105	98	111	126	100
	S00-N6	99	6	84	102	102	108	101	99	-	-
	TH 34006R2Y	105	6	-	-	100	104	105	99	114	108
	SC2380 R2	98	6	95	100	101	105	87	107	-	-
	CFS 12.302R2	100	6	88	86	107	101	109	103	-	-
Long Season Zone	HS 007RY32	106	6	-	-	107	103	97	108	119	104
	PS 0074 R2	118	6	-	-	102	108	116	107	152	118
	NSC Niverville RR2Y	110	6	-	-	99	106	110	98	136	108
	LS 006R21	102	6	-	-	103	102	99	98	117	92
	NSC Richer RR2Y	111	6	-	-	103	113	91	111	148	107
	LS 007R22	109	6	-	-	93	108	98	110	138	108
	S00-T9	118	6	-	-	126	116	109	111	132	117
	24-61RY	103	6	-	-	104	103	99	106	110	98
	PS 0083 R2	103	6	-	-	95	98	96	100	118	109
	00703	106	6	-	-	106	105	99	102	122	105
	LS 005R22	103	6	-	-	102	106	92	107	124	93
	Currie R2	108	6	-	-	107	107	96	104	131	103
	25-10RY	109	6	-	-	112	109	86	115	126	114
Astro R2	118	6	-	-	113	108	110	117	142	116	
Experimental lines that have been supported for registration in Canada											
	LS005R24	110	6	-	-	104	109	101	112	132	105
CHECK CHARACTERISTICS		004R21 (bu/acre)		57	47	53	44	74	55	58	67
			CV%	7.6	5.6	5.2	4.8	8.0	4.1	6.9	7.3
			LSD%	12	9	8	8	13	7	11	12
			Sign Dif	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Seeding Date			24-May	22-May	17-May	24-May	16-May	16-May	16-May	27-May
	Harvest Date			03-Oct	24-Sep	03-Oct	25-Sep	07-Oct	30-Sep	04-Oct	17-Oct

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..

VARIETY DESCRIPTIONS

Variety	Site Years Tested	Yield (bu/acre)	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Green Seed Coats ¹	Lodging	Powdery Mildew	Resistance Level					Seed Coat Breakage	Seed Coat Dimpling ³
									Mycosphaerella blight	Fusarium Wilt ²	Bleaching				
YELLOW															
Agassiz	37	73	E–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		
Canstar	20	70	E	M	240	G	G	VG	P	G	n/a	G	G		
CDC Bronco	31	61	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Centennial	20	71	E	M	270	F	F	VG	F	F	n/a	G	G		
CDC Golden	41	66	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Hornet	30	68	M	M	220	G	G	VG	F	F	n/a	F	G		
CDC Meadow	50	72	E	M	220	G	G	VG	F	F	n/a	G	G		
CDC Mozart	38	69	M	S	220	F	F	VG	F	F	n/a	G	G		
CDC Prosper	29	63	E	M	150	G	G	VG	F	G	n/a	G	F		
CDC Saffron	14	71	M	M	250	G	G	VG	F	F	n/a	G	G		
CDC Treasure	37	68	E	M	210	G	G	VG	F	G	n/a	F	F		
Cutlass	65	66	M*	M*	220	G	G	VG	F	F	n/a	F	F		
Eclipse	62	69	M	M	250	G	G	VG	F	F	n/a	G	F		
Hugo	14	68	M	M	220	G	G	VG	F	G	n/a	G	F		
Polstead	35	68	M	S	280	F	G	VG	P	P	n/a	F	G		
Reward	20	70	M	M	240	F	G	VG	F	F	n/a	G	G		
SW MIDAS	29	68	E	M	220	G	G	VG	F	F	n/a	G	G		
Sorento	28	70	M	M	260	G	F	VG	F	F	n/a	G	F		
Thunderbird	26	70	M	M	220	F	G	VG	F	F	n/a	G	G		
GREEN															
CDC Patrick	36	66	M	M	190	n/a	G	VG	F	G	G	G	F		
CDC Pluto	9	66	M	M	160	n/a	F	VG	F	F	G	G	G		
CDC Raezer	8	68	M	M	220	n/a	G	VG	F	G	G	G	G		
CDC Sage	19	58	M	M	220	n/a	G	VG	F	G	G	G	F		
CDC Striker	55	63	M	M	230	n/a	G	P	F	G	G	VG	G		
CDC Tetris	23	67	L	M	210	n/a	G	VG	F	G	G	G	G		
COOPER	47	67	L	M	270	n/a	G	VG	F	F	G	F	G		
OTHER PEA TYPES															
CDC Rocket (Maple)	19	63	M	M	210	G	F	VG	F	n/a	n/a	G	G		
CDC Dakota (Dun)	17	74	M–L	M	205	n/a	G	VG	F	n/a	n/a	G	G		
CDC Mosaic (Maple)	17	58	M–L	M	180	n/a	G	VG	F	n/a	n/a	G	G		
CDC Horizon (Silage)	17	62	M	M	170	F	G	VG	F	n/a	n/a	G	G		
CDC Leroy (Silage)	20	60	M	M	150	F	G	VG	F	n/a	n/a	G	G		
CDC Tucker (Silage)	21	63	M	M	170	F	G	VG	F	n/a	n/a	G	G		
Stella (Silage)	13	57	L	M	220	n/a	G	VG	F	F	n/a	G	G		
GRAND MEAN		66													
LSD (0.05)		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 COMPARISONS – FIELD PEAS

Variety	2013 Average Yield (bu/acre)	2013 Yield (bu/acre)		
		Boissevain	Hamiota	Thornhill
YELLOW				
Agassiz 	102	111	113	83
CDC Golden	97	93	111	87
CDC Hornet	99	102	121	76
CDC Meadow	101	102	120	82
CDC Saffron	98	109	105	80
CDC Treasure	94	96	104	82
Cutlass	91	83	106	85
GREEN				
CDC Patrick	85	98	94	65
CDC Raezer	91	99	96	78
CDC Tetris	102	105	114	87
OTHER				
CDC Dakota	97	100	114	79
CDC Horizon	88	101	94	71
CDC Mosaic	84	85	96	73
SITE GRAND MEAN (bu/acre)		98	106	79
	CV%	6.9	8.9	9.7
	LSD (bu/acre)	11	16	–
	Sign Diff	Yes	Yes	No
	Seeding Date	22-May	23-May	09-May
	Harvest Date	22-Sep	30-Sep	27-Aug

FABA BEANS

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

VARIETY DESCRIPTIONS

Variety	Yield (lb/acre)	Site Years Tested	Type ¹	Seed Size TKW (g)	Tannin ¹	Zero Tannin ¹
					2013 Yield (lb/acre)	2013 Yield (lb/acre)
					Roblin	Roblin
CDC Snowdrop	4942	6	Zero Tannin	335	–	91
CDC SSNS-1	5257	9	Tannin	350	89	–
CDC Fatima	3764	31	Tannin	523	100	–
Florent	5183	8	Tannin	523	–	–
Snowbird 	5339	9	Zero Tannin	502	–	100
Taboar 	4184	11	Tannin	471	101	–
CHECK CHARACTERISTICS					CDC Fatima (lb/acre)	
CDC Fatima (Tannin)	3764	31			CV%	6.0
					LSD%	10
					Sign Diff	Yes
					Snowbird (lb/acre)	
CDC Snowbird (Zero Tannin)	5339	9			CV%	4.0
					LSD%	7
					Sign Diff	Yes

¹Traditionally tannin faba bean tan-coloured seed coats contain tannins and can't be fed directly to livestock. Zero tannin faba beans have white seed coats.

LENTILS

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

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

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 Level		Seed Wt (TKW)	Cotyledon Colour	2013 Yield: % CDC Maxim	
				Ascochyta Blight	Anthraco-nose Race 1			Hamiota	Melita
SMALL GREEN									
CDC Asterix	97	2	Early	G	F	26	Yellow	98	96
CDC Invincible CL	77	11	Early	G	G	35	Yellow	86	105
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	73	70
CDC Impress C	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 Impower CL	65	5	Medium	G	P	74	Yellow	-	-
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	79	100
CDC Marble	108	2	Early/Med	F	G	32	Yellow	101	116
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	99	81
CDC Rosie	95	2	Early/Med	G	G	30	Red	98	93
CDC Rosetown	88	11	Early	G	G	31	Red	-	-
CDC Ruby	92	2	Early	G	G	29	Red	103	78
SMALL RED									
CDC Dazil	96	3	Early/Med	G	F	35	Red	86	107
CDC Imax CL	82	11	Medium	G	G	50	Red	81	102
CDC Impact CL	78	10	Early	G	P	34	Red	-	-
CDC Maxim CL	100	13	Early/Med	G	G	40	Red	100	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 Scarlet	107	2	Early/Med	G	F	36	Red	109	107
LARGE RED									
CDC KR-1	76	8	Medium	G	G	56	Red	-	-
CHECK CHARACTERISTICS						CDC Maxim (lb/acre)		2413	1973
CDC Maxim	3329 lb/acre	13 site years					CV%	13.1	10.9
							LSD (%)	22	18
							Sign Diff	Yes	Yes

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

Seeding Date 23-May 13-May
Harvest Date 15-Oct 03-Sep