



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 are made possible with 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 four locations (Morden, Winkler, Carman, and Portage la Prairie), under wide row (60 cm) conditions. At each location, the cultivars were repeated three times. There were 50 entries in the evaluation, separated into small- (navy, black), medium- (pinto, small red, yellow,) and large-seeded (cranberry, great northern, 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 with cultivars, such as un-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 lbs/acre) that two varieties must differ before you can say with a 95% chance of certainty that a difference exists for those varieties in the same trial. For example, if 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 little

experimental errors and the LSD indicates that varieties yields that vary by more than 301 lb/acre are truly different.

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 it in pairs with the checks, and in as many different settings and even years as possible. Some new cultivars or advanced breeding lines are included in the 2012 evaluation. But most entries have been tested in multiple years. 

SEED AND HARVEST DATES – EDIBLE BEAN TRIALS

	Seeding Date	Harvest Date
Wide Row Edible Bean – Morden	May 31	October 1
Wide Row Edible Bean – Winkler	May 24	September 25
Wide Row Edible Bean – Carman	June 1	September 24
Wide Row Edible Bean – Portage – Small Seeded	June 1	October 2
Wide Row Edible Bean – Portage – Medium/Large	June 4	October 3/Nov. 2
Narrow Row Edible Bean – Thornhill	June 5	September 28
Narrow Row Edible Bean – Arbog	May 31	September 28
Narrow Row Edible Bean – Melita	May 17	August 28

Soybean dates are listed within tables.

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.

KEY – APPLICABLE TO ALL EDIBLE BEAN CHARTS

Agronomic Traits		Disease Traits
Yield	lb/acre	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 Anthraxnose Incidence – % plant tissue infected Rust Incidence – % plant tissue infected White Mould Incidence – % plant tissue infected
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	

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.

2012 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	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	1148	106	3	7	0	0	0	36	53	1.0	90	186	2.0
AC Cruiser	1159	106	3	4	0	0	0	35	70	1.0	88	181	1.7
Aspen	1431	105	3	23	0	0	0	35	47	1.0	90	213	2.3
Cargo	935	105	3	15	0	0	0	37	47	1.0	90	187	2.7
Indi	1381	107	3	15	0	0	0	35	73	1.0	95	179	3.0
ISB 1815-2	1773	105	3	6	0	0	0	36	63	1.0	93	162	4.0
ISB 1816	1623	105	3	8	0	0	0	40	82	1.7	90	164	3.0
Lightning	1332	105	3	20	0	0	0	33	90	1.0	92	194	2.7
OAC Spark	1325	104	3	40	0	0	0	36	45	1.0	90	188	2.7
Portage	1524	103	1	3	0	0	0	35	57	1.0	95	178	2.3
T9903	1437	106	3	6	0	0	0	38	72	1.0	88	225	1.7
T9905	1754	111	3	12	0	0	0	36	73	1.0	90	213	2.3
Mean	1402	106	3	13	0	0	0	36	64	1	91	189	3
BLACK													
Eclipse	1694	103	3	18	0	0	0	41	72	1.0	95	190	2.7
Carman Black	1207	104	3	12	0	0	0	40	70	1.0	95	198	2.7
CDC Blackcomb	1301	104	3	7	0	0	0	43	65	1.0	92	184	2.7
CDC Jet	1290	104	3	13	0	0	0	42	70	1.0	95	202	2.7
CDC Super Jet	1207	104	3	15	0	0	0	41	60	1.0	95	199	2.7
Mean	1340	104	3	13	0	0	0	41	67	1	94	195	3
Overall Trial Mean	1384	105	3	13	0	0	0	38	66	1	92	191	3
CV%	7.0												
LSD	161												

Winkler

MARKET CLASS/Variety	Yield lb/acre	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	1575	105	3	30	0	0	0	55	52	1.7	82	180	3.0
AC Cruiser	1809	105	3	10	0	0	0	52	80	1.3	88	172	4.0
Aspen	1558	107	3	33	0	0	0	49	48	1.7	88	173	3.3
Cargo	1297	102	3	28	0	0	0	50	50	1.0	92	181	2.3
Indi	2234	102	3	15	0	0	0	54	80	1.3	90	171	3.0
ISB 1815-2	2103	102	3	15	0	0	0	55	68	1.3	90	166	4.0
ISB 1816	2117	109	3	13	0	0	0	55	82	1.3	92	169	3.7
Lightning	1830	107	3	28	0	0	0	53	77	1.7	88	191	3.0
OAC Spark	1105	106	3	20	0	0	0	51	50	1.3	83	145	3.0
Portage	2508	100	2	5	0	0	0	47	68	1.3	92	178	2.3
T9903	2128	106	3	27	0	0	0	51	82	1.7	88	203	3.0
T9905	2608	107	3	20	0	0	0	53	92	1.3	90	198	1.7
Mean	1906	105	3	20	0	0	0	52	69	1	89	177	3
BLACK													
Eclipse	2506	102	3	17	1	0	0	55	70	1.3	90	184	2.3
Carman Black	2170	106	3	28	0	0	0	55	68	1.0	88	204	2.7
CDC Blackcomb	1732	108	3	7	0	0	0	53	62	2.3	85	195	3.0
CDC Jet	1904	107	3	13	0	0	0	54	63	2.0	83	202	3.0
CDC Super Jet	2198	107	3	7	0	0	0	55	65	1.7	88	204	2.7
Mean	2102	106	3	14	0	0	0	54	66	2	87	198	3
Overall Trial Mean	1964	105	3	19	0	0	0	53	68	1	88	183	3
CV%	7.0												
LSD	228												

Carman

MARKET CLASS/Variety	Yield lb/acre	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	1987	97	3	40	0	0	0	38	60	1.3	87	180	3.0
AC Cruiser	2815	99	3	20	0	0	0	44	68	2.3	80	174	3.7
Aspen	3000	97	3	35	3	0	0	42	67	2.3	85	194	3.3
Cargo	2484	98	3	25	0	0	0	39	57	2.0	85	198	2.7
Indi	3018	94	3	25	0	0	0	44	77	1.0	90	172	3.0
ISB 1815-2	2714	97	3	30	0	0	0	44	77	2.0	87	163	4.0
ISB 1816	2829	98	3	20	0	0	0	45	78	2.0	87	169	3.3
Lightning	2941	96	3	32	0	0	0	44	75	2.0	90	203	2.7
OAC Spark	2315	93	3	37	0	0	0	39	58	2.7	83	168	3.3
Portage	2894	95	3	8	0	0	0	44	67	1.3	92	190	3.0
T9903	2945	97	3	20	0	0	0	41	95	2.3	83	219	2.3
T9905	3251	96	3	20	0	0	0	43	92	2.0	85	212	2.3
Mean	2766	96	3	26	0	0	0	42	73	2	86	187	3
BLACK													
Eclipse	3034	95	3	20	0	0	0	45	77	2.0	93	186	2.7
Carman Black	2905	98	3	25	0	0	0	45	77	2.0	87	215	3.3
CDC Blackcomb	2921	96	3	10	0	0	0	42	78	2.0	83	192	3.0
CDC Jet	3287	98	3	23	3	0	0	45	75	2.0	85	204	2.7
CDC Super Jet	2892	97	3	18	0	0	0	46	72	2.0	83	208	2.3
Mean	3008	97	3	19	1	0	0	44	76	2	86	201	3
Overall Trial Mean	2837	97	3	24	0	0	0	43	73	2	86	191	3
CV%	6.3												
LSD	299												

Portage

MARKET CLASS/Variety	Yield lb/acre	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	2466	99	3	30	0	4	0	47	55	2.3	-	192	2.0
AC Cruiser	2504	102	3	7	0	0	0	48	67	2.0	-	179	3.0
Aspen	2550	102	4	37	0	0	0	47	53	2.3	-	199	3.0
Cargo	2897	101	3	33	0	0	0	47	53	2.0	-	182	2.3
Indi	2654	99	3	15	0	0	0	49	63	1.0	-	180	3.7
ISB 1815-2	2743	100	3	18	0	0	0	49	65	2.3	-	174	4.0
ISB 1816	2650	103	3	23	0	0	0	48	65	2.3	-	178	3.7
Lightning	2395	97	3	30	0	0	0	48	58	1.0	-	194	2.7
OAC Spark	2059	91	3	40	0	0	0	47	47	1.7	-	168	3.0
Portage	2335	91	2	5	0	0	0	47	52	1.0	-	174	2.3
T9903	2490	97	3	15	0	0	0	47	63	1.7	-	216	2.0
T9905	2396	103	3	8	0	0	0	48	58	2.0	-	208	2.3
Mean	2512	99	3	22	0	0	0	48	58	2	-	187	3
BLACK													
Eclipse	2463	95	3	23	0	0	0	51	53	1.0	-	196	2.3
Carman Black	2594	96	3	25	0	0	0	47	55	1.0	-	209	2.0
CDC Blackcomb	2527	91	3	12	0	0	0	47	52	1.0	-	191	3.7
CDC Jet	2039	97	3	20	0	0	0	48	60	2.0	-	212	2.3
CDC Super Jet	2603	97	3	8	0	0	0	48	60	2.0	-	207	2.7
Mean	2445	95	3	18	0	0	0	48	56	1	-	203	3
Overall Trial Mean	2492	98	3	21	0	0	0	48	58	2	-	192	3
CV%	13.5												
LSD	561												

2012 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	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	1820	100	3	4	0	0	0	40	92	2.0	77	371	3.0
AC Ole	1453	103	3	8	0	0	0	39	78	2.0	77	396	3.3
AC Pintoba	1394	105	3	3	0	0	0	39	68	2.7	68	392	3.0
CDC WM-2	1534	104	3	11	0	0	0	36	70	2.0	78	362	2.0
cob 2824-99	1825	101	3	11	0	0	0	36	77	2.0	87	388	3.0
GTS 907	1861	102	3	10	0	0	0	38	93	1.7	85	376	2.7
Mariah	2128	100	3	8	0	0	0	37	70	1.7	87	375	3.0
Maverick	1294	102	3	13	0	0	0	40	78	2.7	70	333	2.0
Max	1696	105	3	15	0	0	0	35	88	3.7	65	352	2.7
Medicine Hat	1482	103	3	8	0	0	0	38	78	1.0	85	345	3.0
ND-307	1931	101	3	17	0	0	0	35	55	2.0	83	396	3.0
Sequoia	1401	104	3	17	0	0	0	42	78	1.7	83	335	3.0
Stampede	1488	104	3	2	0	0	0	42	95	2.0	88	397	2.7
Mean	1639	103	3	10	0	0	0	38	79	2	79	371	3
SMALL RED													
AC Earlired	1530	100	3	40	0	0	0	40	47	3.0	65	320	2.3
SR47-3-3	1470	103	3	27	0	0	0	39	62	3.0	65	340	2.3
Mean	1500	102	3	33	0	0	0	39	54	3	65	330	2
YELLOW													
CDC Sol	1688	103	3	8	0	0	0	40	45	1.7	87	412	3.0
Overall Trial Mean	1625	102	3	13	0	0	0	38	73	2	78	368	3
CV%	5.7												
LSD	155												

Winkler

MARKET CLASS/Variety	Yield lb/acre	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	2355	100	3	15	0	0	7	50	82	2.7	73	363	2.3
AC Ole	2436	100	3	27	0	0	2	52	102	3.0	70	355	3.0
AC Pintoba	2955	105	3	15	0	0	0	53	77	2.3	73	344	2.7
CDC WM-2	2358	99	3	10	0	0	18	51	67	2.7	73	384	1.7
cob 2824-99	2193	97	3	18	0	0	12	50	70	2.7	70	340	2.3
GTS 907	2215	99	3	18	0	0	17	54	105	3.0	68	328	2.7
Mariah	2535	99	3	13	0	0	8	54	78	2.0	80	351	2.7
Maverick	1808	100	3	20	0	0	5	52	95	3.7	62	326	2.3
Max	2178	105	3	28	0	0	17	50	90	4.0	63	365	2.3
Medicine Hat	2175	99	3	20	0	0	8	47	93	2.0	80	355	2.7
ND-307	2404	107	3	23	0	0	13	53	72	3.3	72	368	3.0
Sequoia	2465	105	3	20	0	0	0	52	73	2.7	75	338	3.0
Stampede	2188	100	3	15	0	0	12	55	75	2.0	83	357	2.7
Mean	2328	101	3	19	0	0	9	52	83	3	73	352	3
SMALL RED													
AC Earlired	1767	98	3	25	0	0	15	47	45	4.0	60	325	1.3
SR47-3-3	2173	99	3	22	0	0	16	53	58	3.7	60	348	1.7
Mean	1970	99	3	23	0	0	15	50	52	4	60	337	2
YELLOW													
CDC Sol	1315	106	3	25	0	0	1	46	50	1.0	88	402	2.0
Overall Trial Mean	2220	101	3	20	0	0	9	51	77	4	72	353	2
CV%	6.2												
LSD	231												

Carman

MARKET CLASS/Variety	Yield lb/acre	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	3629	91	3	12	0	0	0	44	73	3.0	67	399	2.3
AC Ole	2971	92	3	27	0	0	0	45	90	3.3	68	373	3.0
AC Pintoba	3430	95	3	25	0	0	0	46	72	3.3	68	373	2.7
CDC WM-2	2891	92	3	20	0	0	0	40	83	3.0	75	363	2.7
cob 2824-99	4402	95	3	23	0	0	0	44	78	3.0	70	360	2.3
GTS 907	4304	90	3	23	0	0	0	44	100	3.7	65	354	3.0
Mariah	3560	90	3	20	0	0	0	47	80	4.0	65	336	3.0
Maverick	2997	92	3	30	0	0	0	44	70	4.0	57	335	2.0
Max	3023	94	3	28	0	0	1	43	60	4.0	57	390	1.7
Medicine Hat	3456	90	3	28	0	0	0	45	90	3.0	70	362	3.3
ND-307	3769	96	3	32	0	0	0	44	88	3.0	72	382	3.3
Sequoia	3253	97	3	27	0	0	1	42	83	2.0	77	359	3.0
Stampede	3354	92	3	20	0	0	0	45	82	2.3	77	360	2.7
Mean	3465	93	3	24	0	0	0	44	81	3	68	365	3
SMALL RED													
AC Earlired	2336	91	3	40	0	0	1	43	67	4.0	55	320	2.3
SR47-3-3	2915	95	3	33	0	0	0	45	72	4.0	57	387	2.0
Mean	2625	93	0	37	0	0	1	44	69	4	56	354	2
YELLOW													
CDC Sol	2759	97	3	20	0	0	0	46	63	2.0	75	430	3.0
Overall Trial Mean	3316	93	3	26	0	0	0	44	78	3	67	368	3
CV%	6.1												
LSD	335												

Portage

MARKET CLASS/Variety	Yield lb/acre	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	3266	92	3	2	0	2	0	45	67	2.7	-	380	2.0
AC Ole	2875	93	3	5	0	1	0	45	75	2.7	-	380	2.0
AC Pintoba	3764	97	3	6	0	0	0	49	87	3.7	-	370	2.0
CDC WM-2	3081	88	3	18	0	2	0	44	68	3.0	-	372	1.7
cob 2824-99	3775	88	3	12	0	5	0	44	67	2.7	-	372	3.3
GTS 907	3517	92	3	8	0	1	0	46	70	2.7	-	368	2.7
Mariah	3490	94	3	5	0	5	0	46	68	3.0	-	360	2.0
Maverick	3348	94	3	13	0	3	0	44	65	3.3	-	344	1.7
Max	3225	95	3	13	0	9	0	44	75	3.3	-	393	1.3
Medicine Hat	3236	88	3	13	0	6	0	44	65	2.3	-	369	2.7
ND-307	3845	96	3	15	0	1	0	46	68	2.3	-	389	3.0
Sequoia	2160	97	3	23	0	0	0	47	88	2.0	-	352	3.0
Stampede	3601	95	3	1	0	0	0	46	72	2.0	-	361	2.7
Mean	3322	93	3	10	0	3	0	45	72	3	-	370	2
SMALL RED													
AC Earlired	2624	88	3	40	0	12	0	44	57	3.0	-	354	1.3
SR47-3-3	2745	97	3	12	0	0	0	45	65	4.0	-	369	1.3
Mean	2685	93	3	26	0	6	0	44	61	4	-	361	1
YELLOW													
CDC Sol	2798	99	3	4	0	0	0	47	52	3.0	-	423	2.3
Overall Trial Mean	3209	93	3	12	0	3	0	45	69	3	-	372	2
CV%	7.9												
LSD	426												

2012 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	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	1369	103	4	22	0	0	0	41	60	1.7	72	465	3.0
9350	1355	103	3	8	0	0	0	35	52	1.7	77	499	3.3
9351	1626	102	4	23	0	0	0	36	57	1.7	78	480	2.3
Clouseau	1037	104	3	28	0	0	0	36	53	1.7	73	467	4.0
Mean	1347	103	4	20	0	0	0	37	55	2	75	478	3
WHITE KIDNEY													
GTS 402	1845	105	4	22	0	0	0	40	50	1.7	83	435	3.0
CRANBERRY													
Cran09	1489	103	4	40	0	0	0	36	55	2.7	68	468	2.7
Etna	1104	104	4	33	0	0	0	36	52	1.0	75	463	3.0
Mean	1296	104	4	37	0	0	0	36	53	2	72	465	3
GREAT NORTHERN													
Beryl R	1714	104	3	30	0	0	0	35	88	2.7	73	311	3.0
99118	1772	103	4	37	0	0	0	40	83	2.0	72	331	3.0
GN13-10-1	1740	103	4	32	0	0	0	42	70	2.0	70	330	3.0
Mean	1742	103	4	33	0	0	0	39	81	2	72	324	3
Overall Trial Mean	1505	103	4	28	0	0	0	38	62	2	74	425	3
CV%	7.0												
LSD	184												

Winkler

MARKET CLASS/Variety	Yield lb/acre	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	1329	101	3	40	0	0	0	45	57	1.7	87	470	2.3
9350	1617	102	3	35	0	0	0	45	53	1.7	90	509	2.7
9351	1356	101	3	33	0	0	0	44	53	1.0	90	481	3.0
Clouseau	1448	103	3	40	0	0	0	45	60	1.7	87	474	2.7
Mean	1438	102	3	37	0	0	0	45	56	2	88	483	3
WHITE KIDNEY													
GTS 402	1228	103	3	32	0	0	0	50	53	1.7	88	407	2.7
CRANBERRY													
Cran09	1117	100	3	32	0	0	4	46	53	1.3	85	436	3.3
Etna	1225	99	3	33	0	0	0	44	52	1.0	88	486	3.0
Mean	1171	100	3	33	0	0	2	45	53	1	87	461	3
GREAT NORTHERN													
Beryl R	1995	102	3	23	0	0	5	47	93	4.0	55	268	3.0
99118	1340	100	3	25	0	0	2	52	77	3.0	67	290	3.3
GN13-10-1	1807	106	3	30	0	0	0	53	92	3.7	62	301	2.7
Mean	1714	103	3	26	0	0	2	50	87	4	61	286	3
Overall Trial Mean	1446	102	3	32	0	0	1	47	64	2	80	412	3
CV%	12.0												
LSD	290												

Carman

MARKET CLASS/Variety	Yield lb/acre	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	2238	98	3	47	0	0	0	40	67	2.3	75	553	2.3
9350	2421	95	3	53	0	0	0	41	58	2.3	73	515	2.0
9351	1504	93	3	47	0	0	0	40	55	1.7	75	500	2.3
Clouseau	2522	97	3	53	0	0	0	42	52	2.0	77	554	2.0
Mean	2171	96	3	50	0	0	0	41	58	2	75	531	2
WHITE KIDNEY													
GTS 402	2185	94	3	47	0	0	0	41	57	2.0	78	420	3.0
CRANBERRY													
Cran09	2340	94	3	47	0	0	0	43	60	3.0	62	434	3.3
Etna	1661	95	3	47	0	0	0	42	52	2.0	72	520	2.7
Mean	2001	95	3	47	0	0	0	43	56	3	67	477	3
GREAT NORTHERN													
Beryl R	3498	93	3	27	0	0	0	44	85	3.7	57	294	2.7
99118	3178	91	3	30	0	0	0	42	115	3.0	68	338	2.7
GN13-10-1	2596	94	3	50	0	0	0	45	102	2.7	72	337	2.7
Mean	3090	93	3	36	0	0	0	44	101	3	66	323	3
Overall Trial Mean	2414	94	3	45	0	0	0	42	70	3	71	446	3
CV%	7.8												
LSD	325												

Portage

MARKET CLASS/Variety	Yield lb/acre	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	1296	99	3	22	0	0	0	47	58	2.0	-	525	2.7
9350	1432	97	4	27	0	0	0	45	57	2.7	-	518	3.0
9351	1667	98	3	17	0	0	0	45	57	2.3	-	516	3.0
Clouseau	1397	99	4	15	0	0	0	45	62	2.7	-	543	3.0
Mean	1448	98	3	20	0	0	0	45	58	2	-	525	3
WHITE KIDNEY													
GTS 402	2198	100	3	5	0	0	0	45	57	2.3	-	456	3.3
CRANBERRY													
Cran09	1509	99	3	22	0	0	0	44	62	3.3	-	473	4.0
Etna	1241	100	3	11	0	0	0	47	52	2.7	-	531	4.0
Mean	1375	100	3	16	0	0	0	46	57	3	-	502	4
GREAT NORTHERN													
Beryl R	2166	96	3	32	0	0	0	44	67	3.7	-	292	3.3
99118	2282	91	3	18	0	2	0	44	57	3.0	-	320	3.0
GN13-10-1	2113	97	3	30	0	1	0	48	75	3.3	-	318	3.0
Mean	2187	95	3	27	0	1	0	45	66	3	-	310	3
Overall Trial Mean	1730	98	3	20	0	0	0	45	60	3	-	449	3
CV%	12.9												
LSD	383												

SUMMARY – 2012 LONG SEASON WIDE ROW DRY BEAN REGIONAL TRIALS

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	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	1794	102	1	3	27	0	1	0	44	55	2	86	185	3
AC Cruiser	2072	103	2a	3	10	0	0	0	45	71	2	86	177	3
Aspen	2135	103	1	3	32	1	0	0	43	54	2	88	195	3
Cargo	1903	102	1	3	25	0	0	0	43	52	2	89	187	3
Indi	2322	100	2a	3	18	0	0	0	46	73	1	92	176	3
ISB 1815-2	2333	101	2a	3	17	0	0	0	46	68	2	90	167	4
ISB 1816	2305	104	2a	3	16	0	0	0	47	77	2	89	170	3
Lightning	2124	101	2a	3	28	0	0	0	45	75	1	90	195	3
OAC Spark	1701	99	1	3	34	0	0	0	43	50	2	86	167	3
Portage	2315	97	1	2	5	0	0	0	43	61	1	93	180	3
T9903	2250	101	2a	3	17	0	0	0	44	78	2	87	216	2
T9905	2502	104	2a	3	15	0	0	0	45	79	2	88	208	2
BLACK														
Eclipse	2424	99	1	3	20	0	0	0	48	68	1	93	189	3
Carman Black	2219	101	1	3	23	0	0	0	47	68	1	90	207	3
CDC Blackcomb	2120	100	2a	3	9	0	0	0	46	64	2	87	191	3
CDC Jet	2130	101	2a	3	18	1	0	0	47	67	2	88	205	3
CDC Super Jet	2225	101	2a	3	12	0	0	0	48	64	2	89	205	3
PINTO														
Windbreaker	2767	96	2a	3	8	0	1	2	45	78	3	72	378	2
AC Ole	2434	97	2a	3	17	0	0	0	45	86	3	72	376	3
AC Pintoba	2886	101	2a	3	12	0	0	0	47	76	3	70	370	3
CDC WM-2	2466	96	2a	3	15	0	1	5	43	72	3	76	370	2
cob 2824-99	3049	95	2b	3	16	0	1	3	43	73	3	76	365	3
GTS 907	2974	95	2a	3	15	0	0	4	45	92	3	73	357	3
Mariah	2928	96	2a	3	12	0	1	2	46	74	3	77	356	3
Maverick	2362	97	2b	3	19	0	1	1	45	77	3	63	335	2
Max	2530	100	2b	3	21	0	2	4	43	78	4	62	375	2
Medicine Hat	2587	95	2a	3	17	0	1	2	44	82	2	78	358	3
ND-307	2987	100	2a	3	22	0	0	3	45	71	3	76	384	3
Sequoia	2320	101	2b	3	22	0	0	0	46	81	2	78	346	3
Stampede	2658	98	2a	3	10	0	0	3	47	81	2	83	369	3
SMALL RED														
AC Earlired	2064	94	2a	3	36	0	3	4	43	54	4	60	330	2
SR47-3-3	2326	99	2a	3	23	0	0	4	45	64	4	61	361	2
YELLOW														
CDC Sol	2140	101	1	3	14	0	0	0	45	53	2	83	417	3
LIGHT RED KIDNEY														
Pink Panther	1558	100	1	3	33	0	0	0	43	60	2	78	503	3
9350	1706	99	1	3	31	0	0	0	41	55	2	80	510	3
9351	1539	99	1	3	30	0	0	0	41	55	2	81	494	3
Clouseau	1601	101	1	3	34	0	0	0	42	57	2	79	509	3
WHITE KIDNEY														
GTS 402	1864	101	1	3	26	0	0	0	44	54	2	83	429	3
CRANBERRY														
Cran09	1614	99	1	3	35	0	0	1	42	58	3	72	453	3
Etna	1308	100	1	3	31	0	0	0	42	52	2	78	500	3
GREAT NORTHERN														
Beryl R	2343	99	2a	3	28	0	0	1	43	83	4	62	291	3
99118	2143	96	2a	3	28	0	0	0	44	83	3	69	320	3
GN13-10-1	2064	100	2a	3	35	0	0	0	47	85	3	68	322	3

2012 DRY BEAN REGIONAL NARROW ROW – THORNHILL

MARKET CLASS/Variety	Yield lb/acre			Thornhill				Arborg			
	Thornhill	Arborg	Melita	Days to Maturity	Plant Ht cm	LDG 1-5	TKW g	Days to Maturity	Plant Ht cm	Pod Ht >5cm	LDG 1-5
	NAVY										
Envoy	1108	2252	1909	101	48	1	151	115	46	83	3
1190m-13	1148	3519	1870	94	60	2	157	109	44	90	2
Lightning	1420	2437	1953	100	70	1	160	117	51	90	2
OAC Spark	1350	2003	1815	99	43	1	153	111	39	87	1
Skyline	1746	306	1829	98	48	1	151	123	32	67	2
BLACK											
Carman Black	1671	3330	2456	99	62	1	181	115	55	90	2
CDC Blackcomb	1472	3188	1963	94	53	1	169	110	50	90	3
CDC Jet	1369	2886	2067	99	58	1	173	118	50	90	3
CDC Superjet	1348	1288	1996	99	48	1	170	119	48	87	4
Mean	1403	2357	1984	98	55	1	163	115	46	86	3
PINTO											
CDC Pintium	1455	2552	1475	97	50	2	326	100	38	80	2
2537-12	1184	2084	1792	95	40	2	320	99	25	67	2
CDC WM-2	1318	3630	1361	95	43	2	303	110	48	70	4
Island	1343	4156	1728	97	65	2	322	114	45	57	5
Mariah	1083	2186	1909	95	53	2	300	123	47	57	5
Winchester	1204	3184	1332	96	70	2	287	113	37	67	4
Winmor	1126	3656	1489	97	58	2	322	115	43	53	5
Mean	1245	3064	1584	96	54	2	311	110	41	64	4
Overall Trial Mean	1334	2666	1809	97	54	1	228	113	44	76	3
CV%	6.5	11.4	11.9								
LSD	146	506	360								

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)	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	115	114	106	125	49	49	OAC Prudence (bu/acre)	48.17	35.74	38.4	74.6	73.9
	days to maturity				bu/acre	site years	CV%	3.9	4.8	6.1	6.5	6.9
							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


Soybeans do not qualify for MASC's Agri-Insurance at Roblin or Hamiota.

In 2012, trials were located at Boissevain, Carberry, Melita, Roblin and Hamiota. However, Boissevain and Carberry trials were lost due to weather issues and the Melita and Roblin trials were harvested but data was deemed unacceptable for publication.

VARIETY DESCRIPTIONS

Variety	Company Heat Unit	Yield % Check	Site Years Tested	Days to Maturity* + / - Check	2012 Yield: % of 23-10 RY Hamiota	
23-10RY	2325	100	6	0	100	
Pekko R2	2325	101	6	1	103	
NSC Libau RR2Y	2375	90	1	1	90	
900Y71	2450	97	6	1	98	
004R21	2425	102	6	2	93	
900Y61	2425	96	6	2	88	
Bishop R2	2450	87	1	2	87	
Vito R2	2450	97	1	3	97	
24-10RY	2425	97	6	4	94	
TH 32004R2Y	2425	110	6	4	112	
Sampsa R2	2425	99	6	4	92	
HS 006RYS24	2450	100	6	4	88	
Experimental lines that have been supported for registration in Canada						
HX 007RY32		81	1	3	81	
LS 002R23		94	1	3	94	
NSM EXP 1225 R2		91	1	1	91	
SC2375R2		95	1	4	95	
TH 33003R2Y		95	1	3	95	
CHECK CHARACTERISTICS					23-10 RY (bu/acre)	60
23-10 RY		50 bu/acre	6 site years	125 days to maturity	CV%	6.1
					LSD%	9.5
					Sign Diff	Yes

*Maturity ratings based only on 2012 data at the Hamiota location.

 Plant Breeders' Rights

Seeding Date 15-May

Harvest Date 01-Oct

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 upcoming 2012 growing season will see many new varieties with the advent of *Genuity Roundup Ready 2 Yield* soybeans. 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.

7 Soybeans are not eligible for MASC Production Insurance in all parts of the province — consult your local agent for more details.

CONVENTIONAL SOYBEANS

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	
			Average	2012	2011	2010						
Mid Season Zone	2450	OAC Prudence	0	0	0	0	100	84	Y	1851	1.7	
	2500	DH863	4	4	5	-	87	10	Y	2230	1.6	
	2550	DH404	4	4	-	-	82	10	IY	2300	1.6	
	Experimental lines are being tested/proposed for registration in Canada											
			OT09-03	2	1	3	3	105	17	Y	2151	1.8
			SeCan 11-05C	1	0	2	-	105	11	Y	2356	1.4
Long Season Zone	Experimental lines are being tested/proposed for registration in Canada											
			OAC 11-03C	7	7	-	-	111	5	IY	2628	1.9
			SeCan 11-06C	5	4	5	-	111	11	LBR	2006	1.8
			OAC 11-04C	8	8	-	-	107	5	LB	2216	1.3
			SeCan 11-10C	7	8	7	-	103	11	IY	2618	2.2

CHECK CHARACTERISTICS

OAC Prudence	115	114	106	125	49	84
	days to maturity				bu/acre	site years

*Lodging and maturity rating averaged across St. Adolphe, Carman, Morris 2012 sites.

YIELD BY LOCATION

Manitoba Variety Zone	Variety	2012 Average Yield	Site Years Tested	2012 Yield: % of OAC Prudence							
				Arborg	Carman	St. Adolphe	Morris	Rosebank	Morden		
Mid Season Zone	OAC Prudence	100	5	100	100	100	100	100	100		
	DH863	80	4	16	120	122	92	-	-		
	DH404	76	4	20	104	109	99	-	-		
Experimental lines are being tested/proposed for registration in Canada											
		OT09-03	111	5	-	123	120	110	97	112	
		SeCan 11-05C	109	5	-	124	115	95	108	106	
		OAC 11-02C	110	5	-	127	117	102	99	112	
Long Season Zone	Experimental lines are being tested/proposed for registration in Canada										
			OAC 11-03C	111	5	-	121	119	113	97	114
			SeCan 11-06C	116	5	-	128	124	110	102	120
			OAC 11-04C	107	5	-	119	123	105	91	108
			SeCan 11-10C	107	5	-	119	126	102	85	114

CHECK CHARACTERISTICS

OAC Prudence (bu/acre)	60	48	36	38	75	74
	CV%	11.3	3.9	4.8	6.1	6.5
	LSD%	15	8	9	10	12
	Sign Diff	Yes	Yes	Yes	Yes	Yes

Seeding Date	17-May	14-May	9-May	12-May	17-May	16-May
Harvest Date	28-Sep	24-Sep	18-Sep	24-Sep	27-Sep	19-Sep

ROUNDUP READY SOYBEANS

New for 2013

Variety	Previous Code	Distributor	Seed Availability	Variety	Previous Code	Distributor	Seed Availability
004R21	LS004R21	Delmar Commodities	2012	LS 006R21	LS006R21	Delmar Commodities	2013
23-10RY	23-10RY	DEKALB	2012	LS 007R22	LS007R22	Delmar Commodities	2012
TH 32004R2Y	32004	Quarry Seeds Ltd.	2012	NSC Elie RR2Y	NSMR2-EXP 110	Northstar Genetics Manitoba	2012
90Y01	PH11002	DuPont Pioneer	2013	NSC Richer RR2Y	NSMR2-EXP 80	Northstar Genetics Manitoba	2012
90Y21	PH11005	DuPont Pioneer	2013	Pekko R2	CFS11.1.01R2	Brett-Young Seeds Ltd./Elite	2012
Astro R2	32006R27	Quarry Seeds Ltd.	2012	PS 0074 R2	EXP00712 RS	PRIDE Seeds	2013
Bishop R2	SC-1001	Secan	2012	PS 0083 R2	EXP033R2	PRIDE Seeds	2012
Beurling R2	SC-2500RR	Secan	2012	S00-B7	X2R00721	Syngenta Canada	2013
Currie R2	SC-2500RR	Secan	2012	Samps R2	CFS11.301R2	Brett-Young Seeds Ltd./Elite	2012
LS 003R22	LS003R22	Delmar Commodities	2012	TH 33008R2Y	TH 33008R2Y	Quarry Seeds Ltd.	-
LS 005R22	LS005R22	Delmar Commodities	2012	Vito R2	PR1182713R2	Northstar Genetics Manitoba	2013

VARIETY DESCRIPTIONS

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 1-5	IDC ³		
			Average	2012	2011	2010						Rating 1-5	Grouping	
Short Season Zone	2375	29002RR	-7	-9	-6	-7	86	29	Y	3300	1.0	2.6	Susceptible	
	2325	Pekko R2 ^	-5	-6	-3	-	101	10	BL	2580	1.1	2.0	Semi Tolerant	
	2325	23-10RY ^	-4	-6	-3	-	103	12	BL	2600	1.3	2.0	Semi Tolerant	
	2450	Bishop R2 ^	-3	-4	-2	-	99	11	IY	2782	1.7	2.8	Susceptible	
	2350	Vito R2 ^	-2	-3	-1	-	101	10	GR	3004	1.4	1.8	Semi Tolerant	
	2350	NSC Anola RR2Y ^	-2	-2	-2	-	107	10	BL	3374	1.2	1.9	Semi Tolerant	
	2375	NSC Libau RR2Y ^	-2	-3	-1	-	101	12	BL	3122	1.1	1.9	Semi Tolerant	
	2425	TH 32004R2Y ^	-2	-3	-1	-	110	14	BL	3200	1.3	1.9	Semi Tolerant	
	2450	900Y71	-2	-1	0	-4	101	21	IY	2750	1.1	1.6	Tolerant	
	2425	004R21 ^	-1	-2	-1	-	100	14	BL	3070	1.1	1.7	Tolerant	
Experimental lines that have been supported for registration in Canada														
		NSM EXP 1225 R ^	-5	-5	-	-	105	6	Y	3190	1.1	2.7	Susceptible	
		LS 002R23 ^	-2	-2	-	-	103	6	BL	3000	1.0	2.1	Semi Tolerant	
		SC2375R2 ^	-2	-2	-	-	105	6	BL	2830	1.0	NT	NT	
Mid Season Zone	2425	S00-B7 ^	-2	-2	-	-	93	5	BL	2550	1.4	NT	NT	
	2475	Chadburn R2 ^	-2	-3	0	-	101	13	BL	3301	1.0	1.6	Tolerant	
	2425	24-10RY ^	-2	-2	-1	-	107	16	IB	3016	1.1	1.9	Semi-Tolerant	
	2425	Samps R2 ^	-1	-1	-1	-	111	10	IB	2467	1.0	2.0	Semi-Tolerant	
	2425	LS 003R22 ^	-1	-1	0	-	108	12	BL	2650	1.2	1.8	Semi-Tolerant	
	2425	NSC Elie RR2Y ^	-1	-1	0	-	107	13	BL	2425	1.3	2.1	Semi-Tolerant	
	2450	27005RR	0	0	-	-	98	40	BR	3500	1.1	1.7	Tolerant	
	2500	NSC Portage RR	0	0	0	0	100	53	BR	3768	1.3	1.8	Semi-Tolerant	
	2450	HS 006RYS24 ^	0	0	0	-	103	11	BL	2900	1.5	1.6	Tolerant	
	2425	900Y61	0	0	0	-	101	17	BR	2800	1.3	1.7	Tolerant	
	2500	Beurling R2 ^	1	0	1	-	94	11	BL	2611	1.8	2.6	Semi-Tolerant	
	2500	PS 0083 R2 ^	1	1	1	-	97	10	BL	2800	1.0	2.3	Susceptible	
	2525	90Y01	1	1	-	-	97	11	IY	2900	1.3	1.8	Tolerant	
	2475	NSC Richer RR2Y ^	1	2	0	-	109	10	BL	3808	1.8	1.7	Semi-Tolerant	
	2475	PS 0074 R2 ^	1	1	-	-	92	5	BR	3425	1.4	1.6	Tolerant	
	2475	LS 005R22 ^	1	1	-	-	99	5	BL	3300	1.4	1.8	Semi-Tolerant	
	2550	NSC Jaden RR2Y ^	2	2	-	3	108	12	BL	3144	1.6	1.7	Tolerant	
	2475	LS 006R21 ^	1	1	2	-	106	17	BL	2800	1.2	1.8	Semi-Tolerant	
	Experimental lines that have been supported for registration in Canada													
			TH 33003R2Y ^	-1	-1	-1	-	106	11	BR	3000	1.6	1.9	Semi-Tolerant
		TH 33005R2Y ^	-1	-1	-	-	113	6	BL	2800	1.2	2.1	Semi-Tolerant	
		TH 33006R2Y ^	1	0	2	-	99	10	IY	2900	1.0	2.1	Semi-Tolerant	
		TH 33007R2Y ^	1	1	2	-	106	11	BR	2700	1.2	2.1	Semi-Tolerant	
		HX 007RY32 ^	0	0	-	-	109	6	BL	2950	1.3	NT	NT	
		SC2450R2 ^	0	0	-	-	100	6	BL	3310	1.1	NT	NT	
		DAS007R3 ^	1	1	-	-	105	6	BR	2900	1.1	NT	NT	
		MK0011A5 ^	0	0	-	-	102	6	BL	2820	1.2	NT	NT	
		X2R00922 ^	2	2	-	-	110	5	BL	2875	1.3	NT	NT	
Long Season Zone	2500	NSC Osborne RR2Y ^	2	2	3	2	109	20	BL	2894	1.3	1.9	Semi-Tolerant	
	2500	Currie R2 ^	2	1	3	-	110	11	BL	2752	1.6	2.0	Semi-Tolerant	
	2475	900Y81	2	2	3	-	97	17	BR	2700	1.0	1.2	Tolerant	
	2475	LS 007R22 ^	3	3	-	-	109	5	BL	3550	1.9	2.3	Semi-Tolerant	
	2500	25-10RY ^	3	4	2	-	110	17	BL	2345	1.3	2.2	Semi-Tolerant	
	2525	Astro R2 ^	3	4	3	-	112	10	BL	2800	1.6	1.8	Semi-Tolerant	
	2525	90M01	3	3	3	3	96	39	Y	2950	1.0	1.7	Tolerant	
	2550	S01-K8 ^	5	5	5	-	99	10	BL	2500	1.0	2.2	Semi-Tolerant	
	2575	90Y21	4	4	-	-	91	5	Y	2900	1.0	1.7	Tolerant	
	2550	TH 33008R2Y ^	10	10	-	-	102	5	BR	2800	1.2	2.7	Susceptible	
Experimental lines that have been supported for registration in Canada														
		G8-NSMR2-EXP G8A ^	4	5	4	-	102	10	BL	3370	1.3	2.9	Susceptible	
		CFS12.3.01 ^	10	10	-	-	108	5	IB	3130	1.4	2.6	Susceptible	

CHECK CHARACTERISTICS

NSC Portage RR	118	117	110	127	51	53
	days to maturity				bu/acre site years	

¹ Maturity Ratings for 2012 are average across Carman, Morris, St. Adolphe

³ NT Varieties were not tested in IDC Trial in 2012

 Plant Breeders' Rights

² Lodging ratings are averaged across Carman and St. Adolphe

^ Indicates Genuity Roundup Ready 2 Yield™ soybean variety.

YIELD BY LOCATION – ROUNDUP READY SOYBEANS

2012 Yield: % of NSC Portage RR

Manitoba Variety Zone	Variety	2012 Average Yield	Site Years Tested	2012 Yield: % of NSC Portage RR								
				Beausejour	Arborg	Stonewall	Carman	Morris	St. Adolphe	Rosebank	Morden	
Short Season Zone	29002RR	88	8	88	109	104	74	91	87	94	73	
	Pekko R2	102	5	-	121	106	84	104	98	-	-	
	23-10RY	103	6	90	126	110	100	99	95	-	-	
	Bishop R2	99	5	-	106	100	104	87	94	-	-	
	Vito R2	103	5	-	119	111	93	93	98	-	-	
	NSC Anola RR2Y	110	5	-	112	119	111	106	102	-	-	
	NSC Libau RR2Y	102	6	95	98	110	114	99	98	-	-	
	TH 32004R2Y	109	8	96	139	104	111	105	107	111	104	
	900Y71	99	6	98	111	103	101	92	90	-	-	
	004R21	97	8	74	98	111	106	91	98	105	104	
	Experimental lines that have been supported for registration in Canada											
	NSM EXP 1225 R2	106	6	105	133	110	89	94	101	-	-	
	LS 002R23	103	6	91	132	107	90	99	102	-	-	
	SC2375R2	105	6	107	122	118	82	98	106	-	-	
Mid Season Zone	S00-B7	93	5	-	-	-	95	96	91	92	93	
	Chadburn R2	101	8	80	108	106	110	101	105	103	96	
	24-10RY	110	8	93	114	108	133	103	104	109	109	
	Sampsa R2	112	5	-	113	112	125	99	106	-	-	
	LS 003R22	109	6	106	111	114	110	102	112	-	-	
	NSC Elie RR2Y	106	8	84	120	110	114	95	100	120	102	
	27005RR	97	8	104	71	106	101	95	97	99	101	
	NSC Portage RR	100	8	100	100	100	100	100	100	100	100	
	HS 006RYS24	101	6	102	-	-	116	92	101	99	97	
	900Y61	101	6	97	101	106	117	82	96	-	-	
	Beurling R2	88	5	-	-	-	82	94	94	79	92	
	PS 0083 R2	94	5	-	96	110	84	94	90	-	-	
	90Y01	98	5	-	-	-	108	92	99	89	100	
	NSC Richer RR2Y	106	5	-	-	-	121	111	102	99	100	
	PS 0074 R2	92	5	-	51	114	95	101	102	-	-	
	LS 005R22	99	5	-	-	-	111	100	96	95	96	
	NSC Jaden RR2Y	106	5	-	-	-	108	101	110	100	107	
	LS 006R21	107	5	-	-	-	117	110	104	100	107	
	Experimental lines that have been supported for registration in Canada											
TH 33003R2Y	103	6	90	-	-	118	103	99	101	104		
TH 33005R2Y	113	6	115	-	-	125	108	118	104	107		
TH 33006R2Y	99	5	-	-	-	94	101	97	96	105		
TH 33007R2Y	104	5	-	-	-	113	91	99	101	108		
HX 007RY32	109	6	105	-	-	119	107	101	113	105		
SC2450R2	100	6	105	97	107	100	89	96	-	-		
DAS007R3	106	6	106	-	-	110	100	106	107	106		
MK0011A5	102	6	92	-	-	117	93	103	106	100		
X2R00922	110	5	-	-	-	112	104	108	110	112		
Long Season Zone	NSC Osborne RR2Y	100	5	-	-	-	90	104	102	99	105	
	Currie R2	109	5	-	-	-	124	105	109	106	103	
	900Y81	90	6	96	65	94	103	94	89	-	-	
	LS 007R22	109	5	-	-	-	123	108	109	100	105	
	25-10RY	108	5	-	-	-	112	102	104	106	112	
	Astro R2	107	5	-	-	-	132	100	103	98	102	
	90M01	90	8	100	42	95	91	94	94	96	98	
	S01-K8	100	5	-	-	-	90	95	98	101	108	
	90Y21	91	5	-	-	-	87	93	97	94	85	
	TH 33008R2Y	102	5	-	-	-	118	82	83	108	109	
	Experimental lines that have been supported for registration in Canada											
G8 R2	97	5	-	-	-	102	95	94	94	100		
CFS12.3.01	108	5	-	-	-	135	94	97	111	100		
CHECK CHARACTERISTICS		NSC Portage RR (bu/acre)		54	50	47	56	36	54	55	78	
		CV%		9.0	7.1	6.2	5.8	6.5	4.8	5.0	8.0	
		LSD%		14.3	11.8	10.6	9.3	10.3	7.6	8.2	13.2	
		Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Seeding Date				17-May	17-May	17-May	14-May	12-May	10-May	17-May	16-May	
Harvest Date				27-Sep	29-Sep	21-Sep	24-Sep	24-Sep	13-Sep	27-Sep	18-Sep	

FIELD PEAS

New for 2013

Variety	Code	Type	Distributor	Seed Availability
CDC Saffron	CDC 2093-22	Yellow	Saskatchewan Pulse Growers	2014

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)	Resistance to							Seed Coat Breakage	Seed ³ Coat Dimpling
						Green ¹ Seed Coats	Lodging	Powdery Mildew	Mycos-phaerella blight	Fusarium ² Wilt	Bleaching			
YELLOW														
Agassiz	34	72	E-M	M	230	n/a	G	VG	F	F	n/a	G	n/a	
Argus	14	67	M	M	230	n/a	G	VG	F	F	n/a	F	n/a	
Canstar	20	69	E	M	240	n/a	G	VG	P	G	n/a	G	n/a	
CDC Bronco	31	59	M	M	230	G	G	VG	F	F	n/a	G	G	
CDC Centennial	20	69	E	M	270	F	F	VG	F	F	n/a	G	G	
CDC Golden	39	64	M	M	230	G	G	VG	F	F	n/a	G	G	
CDC Hornet	27	67	M	M	220	G	G	VG	F	F	n/a	F	G	
CDC Meadow	47	70	E	M	220	G	G	VG	F	F	n/a	G	G	
CDC Minuet	22	67	M	M	190	F	F	VG	F	F	n/a	F	G	
CDC Mozart	38	67	M	S	220	F	F	VG	F	F	n/a	G	G	
CDC Prosper	29	62	E	M	150	G	G	VG	F	G	n/a	G	F	
CDC Saffron	5	66	M	M	250	G	G	VG	F	P	n/a	G	G	
CDC Treasure	34	67	E	M	210	G	G	VG	F	G	n/a	F	F	
Cutlass	62	65	M*	M*	220	G	G	VG	F	F	n/a	F	F	
DS-Admiral	20	65	E	M	240	G	G	VG	F	F	n/a	G	G	
Eclipse	66	68	M	M	250	G	G	VG	F	F	n/a	G	F	
FUSION	21	66	M	M	245	n/a	G	VG	P	P	n/a	F	n/a	
Hugo	14	67	M	M	220	n/a	G	VG	F	G	n/a	G	n/a	
Polstead	35	67	M	S	280	n/a	G	VG	P	P	n/a	F	n/a	
Reward	20	68	M	M	240	n/a	G	VG	F	F	n/a	G	n/a	
SW MIDAS	29	66	E	M	220	G	G	VG	F	F	n/a	G	G	
SW SALUTE	23	66	M	M	220	F	F	VG	F	P	n/a	F	F	
Sorento	28	67	M	M	260	n/a	F	VG	F	F	n/a	G	n/a	
Thunderbird	26	69	M	M	220	n/a	G	VG	F	F	n/a	G	n/a	
Tudor	19	65	M	M	270	F	G	VG	P	F	n/a	F	G	
GREEN														
CDC Montero	24	63	L	M	230	n/a	F	VG	F	F	F	G	F	
CDC Patrick	33	65	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	n/a	
CDC Sage	19	57	M	M	220	n/a	G	VG	F	G	G	G	F	
CDC Striker	55	62	M	M	230	n/a	G	P	F	G	G	VG	G	
CDC Tetris	20	66	L	M	210	n/a	G	VG	F	G	G	G	G	
COOPER	47	66	L	M	270	n/a	G	VG	F	F	G	F	G	
Nitouche	12	63	M	M	250	n/a	G	P	P	P	G	F	F	
OTHER PEA TYPES														
CDC Rocket (Maple)	19	61	M	M	210	G	F	VG	F	n/a	n/a	n/a	G	
CDC Dakota (Dun)	14	72	M-L	M	205	n/a	G	VG	F	n/a	n/a	n/a	G	
CDC Mosaic (Maple)	14	58	M-L	M	180	n/a	G	VG	F	n/a	n/a	n/a	G	
CDC Horizon (Silage)	14	60	M	M	170	F	G	VG	F	n/a	n/a	n/a	G	
CDC Leroy (Silage)	20	58	M	M	150	F	G	VG	F	n/a	n/a	n/a	G	
CDC Tucker (Silage)	21	62	M	M	170	F	G	VG	F	n/a	n/a	n/a	G	
Stella (Silage)	13	57	L	M	220	n/a	G	VG	F	F	n/a	G	n/a	
GRAND MEAN	62													
LSD (0.05)	5													

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	2012 Average Yield (bu/ac)	2012 Yield (bu/ac)				
		Arborg	Boissevain	Hamiota	Melita	Thornhill
YELLOW						
Agassiz	67	52	82	85	47	67
Argus	67	51	86	80	54	65
CDC Hornet	70	54	84	92	52	68
CDC Meadow	69	58	81	92	53	62
CDC Saffron	68	59	84	79	47	70
CDC Treasure	63	54	86	91	54	32
Cutlass	67	54	86	81	59	55
Hugo	68	60	82	76	56	65
Sorento	71	57	85	93	59	60
GREEN						
CDC Patrick	64	51	85	76	48	62
CDC Tetris	64	54	85	71	42	68
OTHER						
CDC Dakota	74	52	91	97	51	77
CDC Mosaic	64	52	76	71	51	69
CDC Horizon	63	52	79	72	48	66
Stella	53	38	69	60	49	52
SITE GRAND MEAN (bu/acre)		53	83	81	51	62
	CV%	5.5	5.8	4.8	9.0	14.0
	LSD (bu/ac)	5	8	7	8	15
	Sign Diff	Yes	Yes	Yes	Yes	Yes
	Seeding Date	10-May	9-May	15-May	25-Apr	4-May
	Harvest Date	13-Aug	27-Aug	10-Sep	31-Jul	23-Aug

FABA BEANS

In 2012, trials were located at Arborg, Melita and Roblin. Arborg and Melita were lost due to disease, Roblin trials had excess moisture damage.

VARIETY DESCRIPTIONS

Variety	Yield % Check	Site Years Tested	Type ¹	Seed Size TKW (g)	Tannin ¹		Zero Tannin ¹	
					2011 Yield (lb/ac)		2011 Yield (lb/ac)	
					Arborg	Roblin	Arborg	Roblin
CDC Fatima	100	30	Tannin	523	100	100	–	–
Florent [Ⓢ]	103	8	Tannin	523	105	117	–	–
Taboar [Ⓢ]	95	10	Tannin	471	103	114	–	–
Snowbird	100	8	Zero Tannin	502	–	–	100	100
Varieties that are being tested or proposed for registration								
FB34-2	93	5	Zero Tannin	347	–	–	93	89
Divine	102	11	Tannin	551	109	111	–	–
Melodie	108	11	Tannin	516	122	128	–	–
CHECK CHARACTERISTICS					CDC Fatima (lb/acre)		5345	4545
CDC Fatima	3628 lb/ac	30 site years		CV%	7.1	6.9		
				LSD%	12	11		
				Sign Diff	Yes	Yes		
					Snowbird (lb/acre)		5439	4909
CDC Snowbird	4927 lb/ac	8 site years		CV%	11.8	4.8		
				LSD%	20	8		
				Sign Diff	Yes	Yes		

¹ Traditionally tannin faba bean tan-coloured seed coats contain tannins and can't be fed directly to livestock. Zero tannin fababeans 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	Site Years Tested	Yield % Redberry	Maturity ¹ Rating	Resistance to		Seed Wt (TKW)	Cotyledon Colour	2012 Yield: % CDC Redberry
					Ascochyta Blight	Anthraco-nose Race 1			Hamiota
Small green	CDC Invincible CL	9	78	Early	G	G	35	Yellow	90
	CDC Milestone	17	89	Early	G	VP	37	Yellow	-
	Eston	14	88	Early	VP	VP	33	Yellow	-
Medium green	CDC Imigreen CL	9	65	Medium	G	F	63	Yellow	71
	CDC Impress CL	11	71	Medium	G	P	52	Yellow	81
	CDC Richlea	14	91	Medium	VP	VP	51	Yellow	-
Large green	CDC Greenland	14	74	Med/Late	G	VP	64	Yellow	-
	CDC Impower CL	5	68	Medium	G	P	74	Yellow	-
	CDC Improve CL	14	77	Medium	F	VP	67	Yellow	67
	CDC Plato	18	77	Med/Late	G	P	62	Yellow	79
	Laird	14	69	Very Late	VP	VP	67	Yellow	-
French green	CDC Peridot CL	9	81	Early	G	P	40	Yellow	78
Extra small red	CDC Robin	17	84	Early	G	G	30	Red	-
	CDC Impala CL	11	84	Early	G	G	31	Red	84
	CDC Imperial CL	15	83	Early	G	G	30	Red	83
	CDC Redbow	8	88	Early/Med	G	G	42	Red	-
	CDC Rosebud	8	90	Early	G	G	29	Red	-
	CDC Rosetown	15	94	Early	G	G	31	Red	104
Small red	CDC Imax CL	9	85	Medium	G	G	50	Red	95
	CDC Impact CL	14	82	Early	G	P	34	Red	-
	CDC Maxim CL	11	103	Early/Med	G	G	40	Red	112
	CDC Red Rider	5	92	Early/Med	G	F	45	Red	-
	CDC Redberry	18	100	Early/Med	G	G	42	Red	100
	CDC Redcoat	8	82	Early	G	G	40	Red	-
Large red	CDC KR-1	8	79	Medium	G	G	56	Red	-

CHECK CHARACTERISTICS

CDC Redberry	18 site years	3022 lb/ac	CDC Redberry (lb/ac)	3222
			CV%	4.1
			LSD (lb/ac)	226
			Sign Diff	Yes

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

Seeding Date

15-May

Harvest Date

24-Sep



Manitoba
Pulse Growers
Association Inc.

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

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