



REVISED
Roundup Ready and
Conventional Soybeans
Yield Comparison Data
on pages 11 and 13

12/14/11

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, pink, great northern), and large-seeded (cranberry, 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, the Morden wide row medium 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 2011 evaluation, but most entries have been tested in multiple years.

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 CMDC 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 flowering	Bacterial Blight Incidence – % leaf tissue infected
Lodging (1–5)	Rated at maturity 1 = upright 5 = flat on the ground	Anthraco-nose 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.

2011 WIDE ROW SCREENING TRIAL – SMALL SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
NAVY													
Envoy	1496	95	1	36	1	83	3	33	0	0	0	188	2
7073	1988	95	2a	63	1	90	3	42	0	0	0	160	3
AC Cruiser	2415	97	2a	63	1	85	3	17	0	0	0	188	2
Cargo	1263	95	1	42	1	83	3	33	0	0	0	194	2
Galley	1747	98	2a	67	1	83	3	40	0	0	0	205	3
HY 4181	1860	95	2a	73	1	85	3	22	0	0	0	201	4
Lightning	1936	96	2a	73	1	87	3	35	0	0	0	203	2
NA06-002	1451	96	2a	58	1	88	3	32	0	0	0	183	3
OAC 05-1	1610	94	1	37	1	85	3	50	0	0	0	191	3
Octane	1541	94	1	37	1	83	3	60	0	0	0	184	2
Portage	2022	98	1	43	1	85	3	1	0	0	0	199	3
Skyline	1357	94	1	40	1	87	3	43	0	0	0	183	3
T9903	1911	96	2a	63	1	88	3	37	0	0	0	207	3
T9905	2101	98	2a	62	1	87	3	40	0	0	0	193	3
Mean	1764	96	-	54	1	86	3	35	0	0	0	192	3
BLACK													
Eclipse	2186	97	1	62	1	90	3	17	0	0	0	196	2
4352	2103	99	1	60	1	93	3	22	0	0	0	161	2
6252	1270	100	1	73	1	87	3	25	0	0	0	186	3
6253	1310	98	2a	67	1	88	3	8	0	0	0	177	3
*Bandit	1590	dfm	1	62	1	92	3	53	0	0	0	184	3
Black Violet	2038	99	1	55	1	90	3	13	0	0	0	195	3
Carman	1785	97	2a	58	1	88	3	25	0	0	0	200	2
CDC Jet	1690	96	1	52	1	95	3	27	0	0	0	203	2
CDC Super Jet	1731	96	1	53	1	87	3	7	0	0	0	205	3
Mean	1745	98	-	60	1	90	3	22	0	0	0	190	3
Overall Trial Mean	1757	96	-	57	1	87	3	30	0	0	0	191	3
CV%	14												
LSD	395												

*Killing Frost at 101 Days – dfm (did not fully mature)

Winkler

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
NAVY													
Envoy	2228	99	1	65	2	77	4	47	0	0	30	201	3
*7073	1866	dfm	2a	93	3	73	4	23	0	0	38	185	3
AC Cruiser	2377	99	2a	97	3	75	4	37	3	0	25	194	4
Cargo	2138	98	1	60	2	77	4	43	0	0	40	195	3
Galley	2635	97	2a	98	2	78	4	43	0	0	22	207	3
*HY 4181	1972	dfm	2a	67	3	65	4	37	0	0	32	215	5
Lightning	2838	96	2a	72	2	82	4	40	0	0	15	215	3
*NA06-002	2066	dfm	2a	67	3	70	3	5	0	0	23	207	5
OAC 05-1	2145	90	1	53	3	72	4	53	0	0	60	178	3
Octane	1976	95	1	63	3	68	4	57	0	0	68	182	3
Portage	3242	98	1	65	2	77	2	3	0	0	22	216	4
Skyline	1650	97	1	58	3	80	4	47	0	0	72	178	3
T9903	2812	97	2a	97	2	77	4	37	0	0	35	207	4
T9905	2464	99	2a	82	3	75	3	8	0	0	30	211	4
Mean	2315	97	-	74	3	75	4	34	0	0	37	199	4
BLACK													
Eclipse	2720	95	2a	68	2	82	3	40	0	0	45	205	3
4352	1836	98	1	82	2	82	3	32	1	0	32	194	3
6252	1936	98	1	73	3	75	4	40	0	0	38	193	4
6253	1948	96	2a	60	3	75	3	27	0	0	32	197	4
Bandit	1749	98	2a	70	2	78	4	40	0	0	35	198	3
*Black Violet	2166	dfm	1	77	2	80	3	22	0	0	35	221	3
Carman	2321	95	2a	87	2	85	3	30	0	0	37	214	3
CDC Jet	2193	96	2a	73	2	78	3	27	0	0	38	204	2
CDC Super Jet	2813	95	2a	112	3	80	3	15	0	0	30	206	3
Mean	2187	96	-	78	2	79	3	30	0	0	36	204	3
Overall Trial Mean	2265	97	-	76	3	77	4	33	0	0	36	201	3
CV%	7												
LSD	272												

*Killing Frost at 99 Days – dfm (did not fully mature) Frost Affected Quality

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
NAVY													
Envoy	1875	99	1	53	2	80	3	40	0	0	0	192	3
7073	1802	99	2a	82	1	87	3	17	0	0	0	178	4
*AC Cruiser	1935	dfm	2a	57	1	88	3	30	0	0	0	189	4
Cargo	1640	98	1	55	1	83	3	40	0	0	0	193	4
*Galley	1761	dfm	2a	70	2	85	3	32	0	0	0	204	5
HY 4181	1788	94	2a	88	2	83	3	23	0	0	0	201	4
*Lightning	1515	dfm	2a	62	1	88	3	33	0	0	0	201	5
*NA06-002	1555	dfm	2a	67	3	70	3	25	0	0	0	184	4
OAC 05-1	1798	92	1	48	1	93	3	60	0	0	0	180	3
*Octane	1179	dfm	1	57	1	82	3	47	0	0	0	186	4
*Portage	1334	dfm	2a	62	1	80	3	5	0	0	0	188	4
*Skyline	1753	dfm	1	52	1	80	3	43	0	0	0	189	3
*T9903	1845	dfm	2a	78	2	73	3	27	0	0	0	217	3
*T9905	2014	dfm	2a	63	1	85	3	10	0	0	0	210	5
Mean	1700	96	-	64	2	83	3	31	0	0	0	194	4
BLACK													
Eclipse	2328	99	1	62	1	93	3	18	0	0	0	195	3
*4352	1996	dfm	2a	68	2	80	3	23	0	0	0	168	4
*6252	1490	dfm	1	68	2	77	3	30	0	0	0	182	4
6253	1548	97	1	65	1	83	3	27	0	0	0	169	4
*Bandit	1699	dfm	1	63	1	88	3	33	0	0	0	191	4
*Black Violet	2226	dfm	1	62	1	87	3	4	0	0	0	211	3
Carman	2572	99	2a	62	1	90	3	25	0	0	0	211	3
CDC Jet	1699	98	2a	60	1	92	3	32	0	0	0	193	3
CDC Super Jet	1628	98	1	63	1	90	3	33	0	0	0	199	4
Mean	1910	98	-	64	1	87	3	25	0	0	0	191	4
Overall Trial Mean	1782	97	-	64	1	84	3	29	0	0	0	193	4
CV%	7												
LSD	209												

*Killing Frost at 99 Days – dfm (did not fully mature) Frost Affected Quality

Portage

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
NAVY													
Envoy	3009	102	1	49	3	-	3	22	1	0	1	192	4
7073	2535	110	2a	59	2	-	3	4	0	0	7	151	4
AC Cruiser	2708	112	2a	54	2	-	3	4	0	0	0	163	4
Cargo	3184	100	1	47	2	-	3	33	0	0	2	196	4
Galley	2852	105	2a	63	2	-	4	37	0	0	3	201	4
HY 4181	2850	105	2a	65	3	-	3	7	1	0	0	200	3
Lightning	3031	102	2a	58	2	-	3	22	0	0	0	204	4
NA06-002	1463	111	2a	67	3	-	3	12	0	0	1	153	5
OAC 05-1	2715	96	1	46	2	-	4	50	0	0	0	193	3
†Octane	-	-	-	-	-	-	-	-	-	-	-	-	-
Portage	3007	101	2a	60	2	-	3	1	0	0	3	199	3
† Skyline	-	-	-	-	-	-	-	-	-	-	-	-	-
T9903	2440	104	2a	55	2	-	3	27	1	0	1	212	3
T9905	2546	112	2a	68	2	-	3	3	0	0	0	179	4
Mean	2695	105	-	58	2	-	3	18	0	0	1	187	4
BLACK													
Eclipse	2745	105	1	63	2	-	3	12	0	0	0	194	3
4352	2198	112	2a	65	3	-	3	5	0	0	7	137	3
6252	2748	109	1	69	2	-	3	5	0	0	1	163	3
6253	2553	105	1	62	1	-	3	1	0	0	5	174	3
Bandit	2416	111	1	63	2	-	4	18	0	0	2	165	3
Black Violet	3198	97	1	63	3	-	3	12	0	0	18	211	3
Carman	3127	107	2a	63	2	-	3	7	0	0	0	212	3
CDC Jet	2694	107	2a	62	3	-	3	12	0	0	0	193	3
CDC Super Jet	2733	106	1	54	3	-	3	2	0	0	3	196	3
Mean	2713	107	-	63	2	-	3	8	0	0	4	183	3
Overall Trial Mean	2702	105	-	59	2	-	3	16	0	0	2	190	4
CV%	13												
LSD	599												

† Poor Plot – No Data

2011 WIDE ROW SCREENING TRIAL – MEDIUM SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
PINTO													
Maverick	2519	96	2a	62	3	78	3	18	0	0	0	353	1
06185	3415	99	2a	75	2	80	3	35	0	0	0	352	3
06189	3283	97	2a	72	2	92	3	33	0	0	0	343	3
Windbreaker	3080	97	2a	62	3	72	3	28	0	0	0	406	2
AC Ole	1911	99	1	72	3	67	3	32	0	0	0	386	2
C6V-1237	2539	95	2a	48	2	80	3	32	0	0	0	406	3
cob 2824-99	2619	97	2a	63	3	75	3	32	0	0	0	376	2
PIN DJ09-1012	3061	99	2a	53	1	82	3	30	0	0	0	352	2
GTS 907	3295	99	2a	77	2	70	3	32	0	0	0	390	3
LaPaz	3396	97	2a	50	2	88	3	23	0	0	0	369	3
Mariah	3284	97	2a	60	2	78	3	13	0	0	0	355	3
Pintoba	2630	100	2a	77	3	65	3	17	0	0	0	367	2
Sinaloa	3419	100	2a	77	1	88	3	17	0	0	0	354	3
Winchester	2339	95	2a	53	2	75	3	40	0	0	0	374	3
Mean	2914	98	-	64	2	78	3	27	0	0	0	370	2
SMALL RED													
Earlired	2240	96	1	52	2	77	3	30	0	0	0	379	2
*9304	3220	dfm	2a	73	2	70	3	30	0	0	0	287	3
Mean	2730	96	-	63	2	73	3	30	0	0	0	333	2
PINK													
*ROG922	2764	dfm	2a	63	2	72	3	40	0	0	0	380	2
Overall Trial Mean	2944	98	-	64	2	77	3	28	0	0	0	366	2
CV%	6												
LSD	301												

*Killing Frost at 101 Days – dfm (did not fully mature)

Winkler

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
PINTO													
Maverick	1869	94	2a	112	4	58	3	25	0	0	70	314	3
06185	2303	94	2a	95	3	70	3	18	0	0	48	334	3
06189	1776	95	2a	103	3	68	3	30	0	0	63	327	3
Windbreaker	2866	93	2a	78	4	62	3	22	1	0	28	346	2
AC Ole	1655	95	2a	93	4	63	3	27	1	0	38	354	3
C6V-1237	2901	90	2a	97	3	68	3	20	0	0	80	361	3
cob 2824-99	2311	92	2a	68	3	63	3	15	0	0	53	345	4
PIN DJ09-1012	3025	90	2a	107	3	78	3	12	0	0	55	329	3
GTS 907	2426	95	2a	107	3	73	3	22	0	0	43	325	3
LaPaz	2128	94	2a	100	3	70	3	20	0	0	67	332	3
Mariah	1508	93	2a	92	3	67	3	22	0	0	77	326	3
Pintoba	2197	95	2a	93	3	65	3	18	0	0	25	329	3
Sinaloa	2685	95	2a	78	3	73	3	20	0	0	40	340	4
Winchester	2783	95	2a	97	3	60	4	32	0	0	20	363	3
Mean	2317	94	-	94	3	67	3	22	0	0	51	338	3
SMALL RED													
Earlired	1824	90	2a	73	4	45	3	30	0	0	80	316	3
9304	2607	98	2b	95	3	68	3	35	0	0	35	250	3
Mean	2216	94	-	84	4	57	3	33	0	0	58	283	3
PINK													
ROG922	2430	98	2a	98	3	68	3	33	1	0	55	322	3
Overall Trial Mean	2311	94	-	93	3	66	3	24	0	0	52	330	3
CV%	6												
LSD	250												

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
PINTO													
Maverick	2319	95	2b	60	4	67	3	30	0	0	2	369	3
06185	2567	94	2a	85	1	92	3	33	0	0	0	361	3
06189	2513	97	2a	83	2	87	3	30	0	0	0	367	4
Windbreaker	2503	95	2a	98	2	77	3	18	0	0	1	372	3
AC Ole	1920	94	2a	90	3	72	3	28	0	0	0	378	3
C6V-1237	2100	92	2a	73	1	90	3	33	0	0	0	396	3
cob 2824-99	2278	94	1	72	2	80	3	30	0	0	1	385	4
PIN DJ09-1012	2916	94	2a	87	1	88	3	25	2	0	1	349	3
GTS 907	2446	92	2a	60	1	83	3	30	0	0	1	369	3
LaPaz	2655	94	2b	77	1	93	3	30	0	0	0	363	3
Mariah	2208	93	2a	85	2	87	3	28	0	0	3	363	4
Pintoba	2243	94	2a	63	3	72	3	18	0	0	1	367	2
Sinaloa	2447	93	a	103	1	85	3	30	0	0	0	379	3
Winchester	1948	93	2a	78	2	82	3	38	0	0	0	364	3
Mean	2362	94	-	80	2	82	3	29	0	0	1	370	3
SMALL RED													
Earlired	2143	90	1	57	1	82	3	43	0	0	0	350	2
*9304	2688	dfm	2a	70	2	73	3	3	0	0	2	302	3
Mean	2416	90	-	63	2	78	3	23	0	0	1	326	3
PINK													
*ROG922	2480	dfm	2a	73	3	72	3	15	0	0	1	391	2
Overall Trial Mean	2375	93	-	77	2	81	3	27	0	0	1	366	3
CV%	8												
LSD	334												

*Killing Frost at 101 Days – dfm (did not fully mature)

Portage

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
PINTO													
Maverick	3372	104	2b	69	4	-	3	8	0	0	9	330	3
06185	3098	112	2a	69	2	-	3	1	0	0	1	321	3
06189	3049	109	2a	74	2	-	3	1	0	0	2	303	4
Windbreaker	3404	102	2a	74	3	-	3	2	0	0	12	353	3
AC Ole	3296	98	2a	59	4	-	3	2	0	0	7	382	2
C6V-1237	3587	103	2a	65	2	-	3	13	0	0	1	379	3
cob 2824-99	3505	98	1	70	3	-	3	10	0	0	10	353	3
PIN DJ09-1012	3935	102	2a	65	2	-	3	2	0	0	6	332	3
GTS 907	3531	101	2a	65	4	-	3	5	0	0	11	364	3
LaPaz	2891	108	2b	69	3	-	3	2	0	0	20	328	3
Mariah	3509	102	2a	65	3	-	3	1	0	0	20	325	4
Pintoba	3228	99	2a	74	4	-	3	1	0	0	11	348	3
Sinaloa	3288	107	a	73	2	-	3	2	0	0	2	344	3
Winchester	3335	97	2a	48	2	-	4	25	0	0	4	352	3
Mean	3359	103	-	67	3	-	3	6	0	0	8	344	3
SMALL RED													
Earlired	3331	98	1	47	4	-	4	25	0	0	9	322	3
9304	3223	104	2a	71	4	-	3	2	0	0	9	258	3
Mean	3277	101	-	59	4	-	4	13	0	0	9	290	3
PINK													
ROG922	2691	103	2a	74	3	-	3	8	0	0	3	339	3
Overall Trial Mean	3350	103	-	66	3	-	3	8	0	0	9	346	3
CV%	10												
LSD	551												

2011 WIDE ROW SCREENING TRIAL – LARGE SEED SIZE

Morden

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1–5	Pod Ht %>5cm	CBB Sever 0–5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1–5
LIGHT RED KIDNEY													
*Pink Panther	2509	dfm	1	58	1	70	4	30	0	0	0	583	2
Foxfire	2033	98.0	1	53	1	73	4	35	0	0	0	504	3
Mean	2271	98	–	56	1	72	4	33	0	0	0	544	3
DARK RED KIDNEY													
ROG802	2208	99.0	1	58	1	78	4	40	0	0	0	527	2
*OAC Redstar	1718	dfm	1	62	2	75	3	13	0	0	0	539	3
Mean	1963	99	–	60	1	77	4	27	0	0	0	533	2
CRANBERRY													
*Etna	1838	dfm	1	48	1	68	4	60	0	0	0	589	3
*AC Red Rider	1065	dfm	1	60	1	77	4	53	0	0	0	575	4
Cran09	1730	98.0	1	43	2	72	4	60	0	0	0	534	4
Mean	1545	98	–	51	1	72	4	58	0	0	0	566	4
WHITE KIDNEY													
*GTS 402	2028	dfm	1	52	1	80	4	47	0	0	0	472	3
YELLOW													
*CDC Sol	1839	dfm	1	50	1	67	4	37	0	0	0	433	3
*8560863	1089	dfm	1	43	1	68	4	57	0	0	0	356	3
Mean	1464	–	1	47	1	68	4	47	0	0	0	394	3
Overall Trial Mean	1806	98	–	53	1	73	4	43	0	0	0	511	3
CV%	10												
LSD	324												

*Killing Frost at 101 Days – dfm (did not fully mature)

Winkler

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1–5	Pod Ht %>5cm	CBB Sever 0–5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1–5
LIGHT RED KIDNEY													
Pink Panther	2573	99	1	63	3	62	3	37	0	0	12	548	3
Foxfire	2859	97	1	68	3	72	3	37	0	0	8	486	3
Mean	2716	98	–	66	3	67	3	37	0	0	10	517	3
DARK RED KIDNEY													
ROG802	2431	96	1	67	2	78	4	35	0	0	2	487	3
*OAC Redstar	2194	dfm	1	45	3	67	3	25	0	0	0	528	3
Mean	2312	96	–	56	3	73	4	30	0	0	1	507	3
CRANBERRY													
Etna	2376	94	1	62	3	75	4	40	0	0	19	551	3
*AC Red Rider	1729	dfm	1	63	2	77	4	60	0	0	7	539	4
Cran09	1856	93	1	63	3	60	4	60	0	0	17	504	3
Mean	1987	94	–	63	3	71	4	53	0	0	14	531	4
WHITE KIDNEY													
GTS 402	1996	95	1	58	3	75	4	37	0	0	23	450	3
YELLOW													
*CDC Sol	3189	dfm	1	55	2	80	4	32	0	0	5	395	3
*8560863	2374	dfm	1	57	2	75	4	47	0	0	12	362	3
Mean	2782	dfm	–	56	2	78	4	39	0	0	8	379	3
Overall Trial Mean	2358	96	–	60	3	72	4	41	0	0	11	485	3
CV%	9												
LSD	360												

*Killing Frost at 99 Days – dfm (did not fully mature)

Carman

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
LIGHT RED KIDNEY													
Pink Panther	1369	97	1	62	2	85	4	60	0	0	0	560	3
Foxfire	1464	95	1	55	1	78	4	57	0	0	0	482	3
Mean	1416	96	-	58	2	82	4	58	0	0	0	521	3
DARK RED KIDNEY													
ROG802	1158	98	1	68	1	75	4	43	0	0	0	466	3
*OAC Redstar	1241	dfm	1	62	2	70	4	23	0	0	0	530	3
Mean	1200	98	-	65	2	73	4	33	0	0	0	498	3
CRANBERRY													
Etna	1337	96	1	52	1	82	4	60	0	0	0	515	4
*AC Red Rider	1155	dfm	1	57	1	75	4	57	0	0	0	516	4
Cran09	1559	92	1	53	1	83	4	50	0	0	0	453	3
Mean	1350	94	-	54	1	80	4	56	0	0	0	495	4
WHITE KIDNEY													
GTS 402	1560	95	1	62	2	85	4	57	0	0	1	460	4
YELLOW													
CDC Sol	2029	97	1	52	2	73	4	50	0	0	0	426	3
*8560863	1967	dfm	1	53	2	67	4	47	0	0	0	374	3
Mean	1998	97	-	53	2	70	4	48	0	0	0	400	3
Overall Trial Mean	1484	96	-	58	2	77	4	50	0	0	0	478	3
CV%	8												
LSD	204												

*Killing Frost at 99 Days – dfm (did not fully mature)

Portage

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
LIGHT RED KIDNEY													
Pink Panther	3182	107	1	51	2	-	3	10	0	0	0	619	2
Foxfire	2831	102	1	54	2	-	4	17	0	0	0	534	3
Mean	3006	105	-	52	2	-	4	13	0	0	0	577	2
DARK RED KIDNEY													
ROG802	2486	105	1	53	2	-	3	8	0	0	2	506	2
OAC Redstar	2308	111	1	50	2	-	3	1	0	0	0	496	3
Mean	2397	108	1	51	2	-	3	5	0	0	1	501	2
CRANBERRY													
Etna	3107	99	1	44	2	-	4	53	0	0	1	604	4
AC Red Rider	1989	111	1	58	3	-	4	40	1	0	1	495	4
Cran09	2692	97	1	47	3	-	4	57	0	0	8	516	3
Mean	2596	102	-	50	2	-	4	50	0	0	3	538	4
WHITE KIDNEY													
GTS 402	2923	99	1	54	2	-	3	17	0	0	5	523	4
YELLOW													
CDC Sol	2841	107	1	44	2	-	4	13	0	0	0	430	3
8560863	1506	112	1	58	2	-	4	30	0	0	1	329	4
Mean	2173	110	-	51	2	-	4	22	0	0	0	379	3
Overall Trial Mean	2587	105	-	51	2	-	4	25	0	0	2	505	3
CV%	9												
LSD	378												

SUMMARY – 2011 LONG SEASON WIDE ROW DRY BEAN REGIONAL TRIALS

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type	Ht cm	Ldg 1-5	Pod Ht %>5cm	CBB Sever 0-5	CBB Incid %	Anthr Incid %	Rust %	WM Incid %	TKW g	Qual 1-5
NAVY													
Envoy	2152	99	1	51	2	80	3	35	0	0	8	193	3
7073	2048	101	2a	74	2	83	3	21	0	0	11	168	4
AC Cruiser	2358	103	2a	68	2	83	3	22	1	0	6	184	3
Cargo	2056	98	1	51	2	81	3	38	0	0	11	195	3
Galley	2249	100	2a	75	2	82	3	38	0	0	6	204	4
HY 4181	2117	98	2a	73	2	78	3	22	0	0	8	204	4
Lightning	2330	98	2a	66	1	86	3	33	0	0	4	206	4
NA06-002	1634	104	2a	65	2	76	3	18	0	0	6	182	4
OAC 05-1	2067	93	1	46	2	83	4	53	0	0	15	185	3
Octane	1566	95	1	52	2	78	3	54	0	0	23	184	3
Portage	2401	99	1	57	2	81	3	3	0	0	6	201	4
Skyline	1587	95	1	50	2	82	3	44	0	0	24	183	3
T9903	2252	99	2a	73	2	79	3	32	0	0	9	211	3
T9905	2281	103	2a	69	2	82	3	15	0	0	8	198	4
BLACK													
Eclipse	2495	99	1	64	1	88	3	22	0	0	11	198	3
4352	2033	103	1	69	2	85	3	20	0	0	10	165	3
6252	1861	103	1	71	2	79	3	25	0	0	10	181	3
6253	1840	99	2a	63	2	82	3	16	0	0	9	179	3
Bandit	1864	105	1	65	2	86	3	36	0	0	9	185	3
Black Violet	2407	98	1	64	2	86	3	13	0	0	13	210	3
Carman	2451	100	2a	67	2	88	3	22	0	0	9	210	3
CDC Jet	2069	99	1	62	2	88	3	24	0	0	10	198	3
CDC Super Jet	2226	99	1	71	2	86	3	14	0	0	8	202	3
PINTO													
Maverick	2520	97	2a	76	4	68	3	20	0	0	20	342	2
06185	2846	100	2a	81	3	81	3	22	0	0	12	342	3
06189	2655	100	2a	83	3	82	3	24	0	0	16	335	3
Windbreaker	2963	97	2a	78	4	70	3	18	0	0	10	369	3
AC Ole	2196	96	2a	79	4	67	3	22	0	0	12	375	3
C6V-1237	2782	95	2a	71	3	79	3	25	0	0	20	386	3
cob 2824-99	2678	95	2a	68	3	73	3	22	0	0	16	365	3
PIN DJ09-1012	3234	96	2a	78	3	83	3	17	0	0	15	341	3
GTS 907	2924	97	2a	77	3	76	3	22	0	0	14	362	3
LaPaz	2767	98	2a	74	3	84	3	19	0	0	22	348	3
Mariah	2627	96	2a	76	3	77	3	16	0	0	25	342	3
Pintoba	2574	97	2a	77	3	67	3	14	0	0	9	353	3
Sinaloa	2960	99	2a	83	3	82	3	17	0	0	10	354	3
Winchester	2601	95	2a	69	3	72	4	34	0	0	6	363	3
SMALL RED													
Earlired	2385	94	2a	57	4	68	3	32	0	0	22	341	2
9304	2935	101	2b	77	3	71	3	17	0	0	12	274	3
PINK													
ROG922	2591	100	2a	77	3	71	3	24	0	0	15	358	3
LIGHT RED KIDNEY													
Pink Panther	2408	101	1	59	2	72	4	34	0	0	3	578	2
Foxfire	2297	98	1	58	2	74	4	36	0	0	2	502	3
DARK RED KIDNEY													
ROG802	2071	100	1	62	2	77	4	32	0	0	1	496	3
OAC Redstar	1865	111	1	55	2	71	3	16	0	0	0	523	3
CRANBERRY													
Etna	2165	97	1	52	2	75	4	53	0	0	5	565	3
AC Red Rider	1485	111	1	60	2	76	4	53	0	0	2	531	4
Cran09	1959	95	1	52	2	72	4	57	0	0	6	502	3
WHITE KIDNEY													
GTS 402	2127	96	1	56	2	80	4	39	0	0	7	476	3
YELLOW													
CDC Sol	2475	102	1	50	2	73	4	33	0	0	1	421	3
8560863	1734	112	1	53	2	70	4	45	0	0	3	355	3

2011 DRY BEAN REGIONAL NARROW ROW – ARBORG

MARKET CLASS/Variety	Yield lb/acre	Days to Maturity	Plant Type 1–3	Ht cm	Ldg 1–5	Pod Ht %>5cm	TKW g
NAVY							
Envoy	1507	91	1	41	3	73	182
1190m-13	1749	88	2	45	2	73	186
OAC 05-1	1946	87	1	42	2	80	186
OAC LIGHTNING	1844	92	2	50	1	80	194
Skyline	1332	92	1	39	2	80	184
Mean	1676	90	–	43	2	77	186
BLACK							
CDC Jet	1486	94	2	49	1	80	186
Carman	1861	94	2	44	1	80	206
CDC Blackcomb	1730	93	2	44	2	77	188
Mean	1692	94	–	45	1	79	193
PINTO							
CDC Pintium	1612	81	1	43	2	80	368
AC Ole	1584	90	3	42	4	50	398
CDC WM-2	1785	82	3	41	2	67	372
Island	1948	81	3	52	3	67	332
Mariah	2100	95	2	44	3	73	316
Winmor	1385	88	2	46	3	70	406
Mean	1736	86	–	45	3	68	365
YELLOW							
CDC Sol	1210	100	1	35	3	57	436
PINK							
2171-2	1792	82	1	39	2	77	310
Overall Trial Mean	1680	89	–	43	2	73	278
CV%	7						
LSD	191						

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)	2011 Yield: % of OAC Prudence																			
			Average	2011	2010	2009	2008						Arborg	Stonewall	Carman	Portage	St. Adolphe	Morris	Rosebank	Morden												
short season	2375	QGC 12N	-8	-7	-9	-8	-9	78	42	2.8	5200	2.3	68	72	86	45	69	78	–	–												
mid season	2475	OAC Prudence	0	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																																
		Colibri	0	3	–	–	–	83	16	1.2	7350	–	–	–	98	51	90	74	59	78												
		OT 08-05	0	1	3	-3	100	87	6	1.9	4300	–	–	–	124	78	105	90	87	95												
CHECK CHARACTERISTICS																																
												OAC Prudence (bu/acre)																				
												124	106	125	125	122	51	38						25	34	47	44	31	40	40	53	
												days to maturity					bu/acre	site						CV%	7.6	11	7.3	11	7	5.6	7.3	4.3
																						LSD%	12	20	13	16	12	8.4	12	8		
																						Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		

*Lodging ratings (1–5) were averaged across Morris and St. Adolphe 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	2011 Yield: % NSC Warren RR				
					Boissevain	Carberry	Hamiota	Melita	Roblin
29002RR	2375	-1	93	5	84	90	99	98	94
23-10RY	2325	-1	103	5	114	115	107	97	96
24-10RY	2425	1	101	5	103	94	102	119	89
TH 32004R2Y	2425	2	113	5	122	113	108	131	99
900Y61	2425	4	101	5	111	101	110	101	94
900Y71	2450	1	99	11	110	93	101	106	94
Pekko R2	2325	3	104	5	110	117	115	114	84
Sampsa R2	2575	2	104	5	118	113	100	116	89
HS 006RYS24	2450	3	106	5	129	98	116	107	93
LS0036RR	2425	1	98	5	104	103	100	113	99
LS004R21	2425	4	106	5	122	98	113	123	89
NSC Warren RR	2350	0	100	22	100	100	100	100	100
CHECK CHARACTERISTICS				NSC Warren RR (bu/acre)	39	28	42	52	83
NSC Warren RR	120 days to maturity	47 bu/acre	22 site years	CV%	7.7	12.7	8.0	5.3	2.9
				LSD%	13	22	14	13	5
				Sign Diff	Yes	Yes	Yes	Yes	Yes

*Maturity ratings were averaged across Boissevain and Roblin sites.

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	2011	2010	2009					
short season	2350	Tundra	-4	-4	-	-	91	29	CL	2500	1.0
	2450	OAC Prudence	0	0	0	0	100	78	Y	1851	1.0
Experimental lines are being tested/proposed for registration in Canada											
mid season zone		CFS09.3.03	2	2	-	-	91	6	GR	2802	1.0
		OAC 07-03C	4	4	4	3	103	17	IY	2349	1.0
		OAC 09-01C	4	4	-	-	88	5	IY	2373	1.3
		OT09-03	3	3	3	-	103	12	Y	2536	1.2
		Secan 07-01C	3	4	4	2	99	17	IY	2235	1.1
		SeCan 11-05C	2	2	-	-	100	6	IY	1960	1.0
Experimental lines are being tested/proposed for registration in Canada											
long season zone		CFS10.3.02	7	7	-	-	114	6	BR	2785	1.0
		DH863	5	5	-	-	92	6	IY	2045	1.0
		Secan 08-01C	7	8	5	6	104	17	IY	2094	1.1
		SeCan 11-06C	5	5	-	-	104	6	LBR	2036	1.5
		SeCan 11-10C	7	7	-	-	99	6	LBR	2426	1.0
		SeCan 11-11C	5	5	-	-	94	6	BR	2349	1.0
CHECK CHARACTERISTICS											
OAC Prudence			119	106	125	125	49	78	Y	1851	1.0
			days to maturity				bu/acre	site years		seeds/lb	

*Lodging and maturity ratings were averaged across St. Adolphe and Morris 2011 sites.

YIELD BY LOCATION

Manitoba Variety Zone	Variety	2011 Average Yield	Site Years Tested	2011 Yield: % of OAC Prudence							
				Arborg	Stonewall	Carman	Portage	St. Adolphe	Morris	Rosebank	Morden
short season	Tundra	84	6	90	73	88	78	86	93	-	-
	OAC Prudence	100	8	100	100	100	100	100	100	100	100
Experimental lines are being tested/proposed for registration in Canada											
mid season zone	CFS09.3.03	91	6	86	85	113	82	93	84	-	-
	OAC 07-03C	99	6	104	83	106	95	122	88	-	-
	OAC 09-01C	100	6	105	80	117	89	111	98	-	-
	OT09-03	103	6	-	-	105	96	109	100	98	108
	Secan 07-01C	97	6	104	75	121	79	118	89	-	-
	SeCan 11-05C	100	6	102	109	112	87	96	94	-	-
Experimental lines are being tested/proposed for registration in Canada											
long season zone	CFS10.3.02	114	6	113	98	133	108	129	101	-	-
	DH863	92	6	99	90	108	81	96	79	-	-
	Secan 08-01C	95	6	103	76	105	80	118	91	-	-
	SeCan 11-06C	104	6	85	110	118	100	109	96	-	-
	SeCan 11-10C	99	6	94	82	122	87	107	98	-	-
	SeCan 11-11C	94	6	89	71	110	84	116	91	-	-
CHECK YIELD											
OAC Prudence (bu/acre)				25	34	47	44	31	40	40	53
CV%				7.6	11.0	7.3	11.2	7.0	5.6	7.3	4.3
LSD%				12	20	13	16	12	8	12	8
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CORRECTION – Check yield of OAC Prudence along with the CV% and LSD% have been updated. Relative yield data appearing within the table remains the same as first publication. If there are any questions please contact Dennis Lange, MAFRI pulse specialist at 204-750-4530 or email dennis.lange@gov.mb.ca.

ROUNDUP READY SOYBEANS

New for 2012

Variety	Previous Code	Distributor	Seed Availability
24-10RY	24-10RY	Monsanto	2012
25-10RY	25-10RY	Monsanto	2012
900Y61	PH10001	Pioneer Hybrid	2012
900Y81	Ph10002	Pioneer Hybrid	2012
Chadburn R2	SC 2475	Secan	2012
HS 006RYS24	EXP006RY24	Hyland	2012
LS006R21	LS006R21	Delmar Commodities	2012
LS008R21	LS008R21	Delmar Commodities	2012
NSC Balmoral RR2Y	NSMR2-EXP 30	Northstar Genetics Manitoba	2012
S01-K8	S01-K8	Univar Canada Ltd.	2012

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	2011	2010	2009						Rating 1-5	Grouping	
short season zone	2375	29002RR	-5	-6	-7	-3	85	21	Y	3300	1.0	2.6	Susceptible	
	2450	S00-W3	-4	-4	-6	-1	96	21	GR	3200	1.0	2.0	Semi Tolerant	
	2450	900Y71	-2	0	-4	-2	102	15	IY	2700	1.0	1.8	Semi Tolerant	
	Experimental lines that have been supported for registration in Canada													
			23-10RY ^	-3	-3	-	-	102	6	BL	2325	1.0	2.0	Semi Tolerant
			Pekko R2 ^	-3	-3	-	-	100	5	BL	2768	1.1	1.5	Tolerant
			Sampsa R2 ^	-1	-1	-	-	109	5	IB	2480	1.1	1.8	Semi Tolerant
			LS004R21 ^	-1	-1	-	-	103	6	BL	2488	1.2	1.1	Tolerant
			NSC Anola RR2Y ^	-2	-2	-	-	104	5	BL	3170	1.4	1.4	Tolerant
			NSC Libau RR2Y ^	-1	-1	-	-	98	6	BL	2980	1.0	1.6	Tolerant
			PR1182713R2 ^	-1	-1	-	-	98	5	GR	2597	1.2	1.3	Tolerant
			TH 33003R2Y ^	-1	-1	-	-	112	5	BR	2600	1.4	1.7	Tolerant
			Bishop ^	-2	-2	-	-	100	6	BL	2536	1.2	2.6	Susceptible
			TH 32004R2Y ^	-1	-1	-	-	112	6	BL	3200	1.2	1.4	Tolerant
mid season zone	2450	25-04R	-1	-2	-1	0	100	36	BR	2625	1.2	1.8	Semi Tolerant	
	2425	24-10RY ^	-1	-1	-	-	105	8	IB	2398	1.1	1.5	Tolerant	
	2475	Chadburn R2 ^	0	0	-	-	102	5	BL	2428	1.0	1.4	Tolerant	
	2425	LS0036RR	-1	0	-2	-1	97	32	BL	3800	1.0	1.5	Tolerant	
	2450	27005RR	-1	1	-2	-1	96	6	BR	3500	1.1	1.7	Tolerant	
	2450	HS 006RYS24 ^	0	0	-	-	106	5	BL	2800	1.1	2.0	Tolerant	
	2500	NSC PORTAGE	0	0	0	0	100	45	BR	4092	1.3	1.8	Semi Tolerant	
	2450	NSC Balmoral RR2Y ^	0	0	-	-	109	5	BL	2279	1.3	1.4	Tolerant	
	2425	900Y61	0	0	-	-	101	11	BR	2900	1.3	-	-	
	Experimental lines that have been supported for registration in Canada													
			LS003R22 ^	0	0	-	-	106	6	BL	3000	1.2	1.9	Semi Tolerant
			NSC Elie RR2Y ^	0	0	-	-	109	5	BL	2600	1.2	1.2	Tolerant
			NSC Richer RR2Y ^	0	0	-	-	114	5	BL	2830	1.1	1.7	Semi Tolerant
			NSMR2-EXP G2 ^	0	0	-	-	97	5	IY	2510	1.0	1.7	Semi Tolerant
		NSMR2-EXP G4 ^	2	2	-	-	98	5	GR	2510	1.3	2.4	Susceptible	
		PS 0083 R2 ^	1	1	-	-	102	5	BL	2950	1.1	2.5	Susceptible	
		TH 33007R2Y ^	2	2	-	-	109	6	BR	2609	1.3	2.3	Semi Tolerant	
		TH 33006R2Y ^	2	2	-	-	99	5	IY	2855	1.8	2.7	Susceptible	
		Beurliling R2 ^	1	1	-	-	102	6	BL	2389	1.5	2.1	Semi Tolerant	
long season zone	2475	LS0065RR	1	1	1	1	101	28	BL	3400	1.2	1.7	Tolerant	
	2475	LS006R21 ^	2	2	-	-	104	8	BL	2650	1.1	2.0	Semi Tolerant	
	2500	90M01	4	3	3	6	97	31	Y	2450	1.3	1.7	Tolerant	
	2500	25-10RY ^	2	2	-	-	110	12	BL	2300	1.2	1.7	Semi Tolerant	
	2525	LS008R21 ^	3	3	-	-	116	7	BL	2800	1.2	2.0	Semi Tolerant	
	2575	S01-K8 ^	5	5	-	-	98	5	GR	2575	1.0	2.6	Susceptible	
	2600	Laka R2 ^	5	5	-	-	109	5	BL	2364	1.1	1.3	Tolerant	
	2500	NSC OSBORNE RR2Y ^	2	3	2	-	112	8	BL	2830	1.0	2.0	Semi Tolerant	
	2475	900Y81	3	3	-	-	101	11	IY	2150	1.0	-	-	
	Experimental lines that have been supported for registration in Canada													
			TH Astro R2 ^	3	3	-	-	118	5		2800	1.1	1.7	Semi Tolerant
			NSMR2-EXP G8A ^	4	4	-	-	109	5	BL	2800	1.3	2.7	Susceptible
			PR11109A3R2 ^	4	4	-	-	119	5	BL	2732	1.0	2.2	Semi Tolerant
			PR1176020R2 ^	3	3	-	-	104	5	BL	2597	1.0	2.1	Semi Tolerant
		PSX 11R2001M ^	3	3	-	-	111	5	BL	2360	1.1	1.6	Semi Tolerant	
		Currie R2 ^	3	3	-	-	111	6	BL	2850	1.1	1.2	Tolerant	

CHECK CHARACTERISTICS

NSC Portage RR	120	110	127	122	51	45
	days to maturity				bu/acre site years	

*Lodging and maturity ratings were averaged across St. Adolphe and Morris 2011 sites.

^ Indicates Genuity Roundup Ready 2 Yield™ soybean variety.

YIELD BY LOCATION – ROUNDUP READY SOYBEANS

2011 Yield: % of NSC Portage RR

Manitoba Variety Zone	Variety	2011 Average Yield	Site Years Tested	2011 Yield: % of NSC Portage RR								
				Arborg	Beauséjour	Carman	Morris	St. Adolphe	Rosebank	Morden	Stonewall	
short season zone	29002RR	77	5	34	-	91	98	75	-	-	79	
	S00-W3	92	5	74	-	100	97	96	-	-	91	
	900Y71	100	5	90	100	101	99	104	-	-	104	
	Experimental lines that have been supported for registration in Canada											
	23-10RY	102	6	84	104	108	108	101	-	-	102	
	Pekko R2	100	5	88	-	99	107	107	-	-	99	
	Sampsa R2	109	5	-	-	111	113	112	110	101	-	
	LS004R21	102	6	83	113	112	109	103	-	-	100	
	NSC Anola RR2Y	104	5	94	-	109	107	105	-	-	101	
	NSC Libau RR2Y	98	6	84	102	111	95	104	-	-	90	
	PR1182713R2	98	5	80	-	108	103	102	-	-	93	
	TH 33003R2Y	112	5	-	-	123	98	101	108	123	-	
	Bishop	100	5	85	-	107	104	100	-	-	99	
TH 32004R2Y	111	6	-	118	107	122	107	108	114	-		
mid season zone	25-04R	100	8	80	104	112	91	103	98	110	98	
	24-10RY	105	8	83	93	113	117	100	100	115	103	
	Chadburn R2	102	5	89	-	113	103	98	-	-	105	
	LS0036RR	97	6	90	80	108	102	97	-	-	84	
	27005RR	104	4	-	95	102	95	-	107	112	-	
	HS 006RYS24	106	5	92	-	115	114	110	-	-	96	
	NSC PORTAGE	100	8	100	100	100	100	100	100	100	100	
	900Y61	96	6	89	90	105	97	93	-	-	92	
	NSC Balmoral RR2Y	109	5	103	-	113	111	113	-	-	104	
	Experimental lines that have been supported for registration in Canada											
	LS003R22	104	6	77	128	110	110	112	-	-	104	
	NSC Elie RR2Y	109	5	100	-	112	114	111	-	-	105	
	NSC Richer RR2Y	114	5	97	-	123	113	121	-	-	110	
NSMR2-EXP G2	97	5	76	-	104	108	102	-	-	92		
NSMR2-EXP G4	98	5	83	-	109	95	110	-	-	90		
PS 0083 R2	102	5	89	-	106	106	97	-	-	106		
TH 33007R2Y	109	6	-	111	113	102	113	105	111	-		
TH 33006R2Y	99	6	-	103	103	103	98	91	98	-		
Beurling R2	101	6	84	109	105	105	106	-	-	101		
long season zone	LS0065RR	109	5	-	-	110	105	108	111	112	-	
	LS006R21	103	8	85	112	115	113	108	95	103	96	
	90M01	100	5	-	93	106	104	98	94	95	-	
	25-10RY	112	5	-	-	116	99	108	108	125	-	
	LS008R21	110	5	-	-	108	97	106	112	122	-	
	S01-K8	98	5	-	-	96	101	109	93	92	-	
	Laka R2	109	5	-	-	104	98	118	105	121	-	
	NSC OSBORNE RR2Y	111	8	100	116	110	107	113	111	121	116	
	900Y81	96	6	77	101	105	112	92	-	-	87	
	Experimental lines that have been supported for registration in Canada											
	TH Astro R2	118	5	-	-	117	110	119	102	136	-	
	NSMR2-EXP G8A	109	5	104	-	111	106	119	-	-	105	
	PR11109A3R2	119	5	-	-	123	118	126	98	129	-	
PR1176020R2	104	5	-	-	108	93	112	102	102	-		
PSX 11R2001M	111	5	-	-	122	105	109	102	115	-		
Currie R2	111	6	99	115	115	116	107	-	-	113		

CHECK YIELD



NSC Portage RR (bu/acre)	34	21	51	37	34	40	48	35
CV%	9.2	6.4	6.1	6.5	6.4	7.1	6.3	7.7
LSD%	13	11	11	11	11	12	12	12
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CORRECTION – Check yield of NSC Portage RR along with the CV% and LSD% have been updated. Relative yield data appearing within the table remains the same as first publication. If there are any questions please contact Dennis Lange, MAFRI pulse specialist at 204-750-4530 or email dennis.lange@gov.mb.ca.

FIELD PEAS

New for 2012

Variety	Code	Type	Distributor	Seed Availability
CDC Horizon	1681-11	Forage	Saskatchewan Pulse Growers	2013
CDC Mosaic	1816-4	Maple	Saskatchewan Pulse Growers	2013
CDC Dakota	2098-20	Dun	Saskatchewan Pulse Growers	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	Mycos- phaerella Blight	Fusarium ² Wilt	Bleaching			
YELLOW														
Agassiz	111	27	M	M	230	n/a	G	VG	F	F	n/a	G	n/a	
Argus	109	8	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	33	M	M	230	G	G	VG	F	F	n/a	G	G	
CDC Hornet	102	21	M	M	220	G	G	VG	F	F	n/a	F	G	
CDC Meadow	110	36	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	93	27	E	M	150	G	G	VG	F	G	n/a	G	F	
CDC Treasure	105	27	E	M	210	G	G	VG	F	G	n/a	F	F	
Cutlass	100	52	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	104	8	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	103	32	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	22	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	103	26	M	M	190	n/a	G	VG	F	G	G	G	F	
CDC Pluto	106	8	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	49	M	M	230	n/a	G	P	F	G	G	VG	G	
CDC Tetris	105	14	L	M	210	n/a	G	VG	F	G	G	G	G	
COOPER	104	42	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 Dakota (Dun)	122	8	M-L	M	205	n/a	G	VG	F	n/a	n/a	n/a	G	
CDC Mosaic (Maple)	79	8	M-L	M	180	n/a	G	VG	F	n/a	n/a	n/a	G	
CDC Horizon (Silage)	88	8	M	M	170	F	G	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)	72	17	L	T	140	n/a	P	P	P	n/a	n/a	n/a	G	
Stella (silage)	90	8	L	M	220	n/a	G	VG	F	F	n/a	G	n/a	

CHECK CHARACTERISTICS

Cutlass	70	52	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	2011 Average Yield	Site Years Tested	2011 Yield: % of Cutlass		
			Arborg	Thornhill	Melita
YELLOW					
Agassiz	108	3	100	101	135
Argus	100	3	102	89	115
CDC Golden	101	3	86	89	146
CDC Hornet	111	3	106	107	125
CDC Meadow	104	3	100	98	122
CDC Prosper	103	3	107	100	102
CDC Treasure	101	3	93	106	106
Cutlass	100	3	100	100	100
Hugo	117	3	118	110	128
Polstead	97	3	86	83	141
Sorento	102	3	97	92	127
GREEN					
CDC Patrick	105	3	115	91	112
CDC Pluto	110	3	114	104	115
CDC Striker	94	3	94	86	107
CDC Tetris	96	3	102	97	85
Cooper	108	3	107	96	128
OTHER					
CDC Dakota	117	3	102	116	145
CDC Mosaic	96	3	100	82	114
CDC Horizon	90	3	94	88	89
Stella	84	3	83	86	84
4010	94	3	76	93	127
CHECK YIELD		Cutlass (bu/acre)	60	61	34
		CV%	12.1	8.9	11.4
		LSD%	20	14	22
		Sign Diff	Yes	Yes	Yes

FABA BEANS

Variety	Yield % Check	Site Years Tested	Type ¹	Seed Size TKW (g)	¹ Tannin		¹ Zero Tannin	
					2011 Yield: % of CDC Fatima		2011 Yield: % of Snowbird	
					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	–	–	–	93	89
Divine	102	11	Tannin	551	109	111	–	–
Melodie	108	11	Tannin	516	122	128	–	–
CHECK CHARACTERISTICS				CDC Fatima (lb/acre)	5363	4551	–	–
CDC Fatima	3628 lb/acre	30 site years		CV%	11.8	4.8		
				LSD%	13	13		
				Sign Diff	Yes	Yes		
CHECK CHARACTERISTICS				CDC Snowbird (lb/acre)	5457	4399		
CDC Snowbird	4928 lb/acre	8 site years		CV%	11.8	4.8		
				LSD%	17.2	7.4		
				Sign Diff	Yes	Yes		

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

LENTILS

The lentil variety trials were tested by the Manitoba Pulse Growers Association. However, no sites were harvested as excess moisture early in the year impacted stand establishment. Clearfield lentils are tolerant to the herbicide Odyssey. These varieties are easily identified by the "CL" designation at the end of the name.

NOTE – Data presented is from 2010.

VARIETY DESCRIPTIONS

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

CHECK CHARACTERISTICS

CDC Milestone	2322 lb/acre	26 site years
---------------	-----------------	------------------

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



Manitoba
Pulse Growers
Association Inc.

MPGA has been a proud MCVET sponsor supporting pulse post-registration variety trials for the last 14 years.

MPGA and the Agri-Food Research and Development Initiative (ARDI) have worked together to evaluate dry bean, soybean, pea, faba bean and lentil at sites all across Manitoba.

Working for You

For more information on how your check-off dollars work for you visit

www.manitobapulse.ca