MANITOBA Pulse Soybean GROWERS

This publication features the results from MPSG sponsored trials.

The evaluation of pulse and soybean varieties across five different crop types (soybeans, edible beans, peas, faba beans and lentils) found within this publication are made possible with your continued support through your MPSG check-off levy.

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. Entries in the evaluation are separated into small- (navy, black), medium- (pinto, pink, yellow) and large-seeded (cranberry and light red kidney).

IS ONE VARIETY BETTER THAN ANOTHER?

Look at the LSD (Least Significant Difference) and CV (Coefficient of Variation) that are printed within each trial. For all wide row edible bean trials, the LSD represents the amount of beans (in lbs/ac) 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. Coefficient of Variation is a measurement describing the amount of variation caused by factors unrelated to cultivars, such as non-uniform field spots, loss of plants, various water and fertilizer conditions, human errors, etc. Lower CVs (less than 15%) indicate a more uniform trial that will demonstrate the true differences between varieties. For example, an edible bean trial has an overall mean yield of 2944 lbs/ac, a CV of 6%, and LSD of 300 lbs/ac. The low CV indicates the trial has very little experimental errors and the LSD indicates varieties that vary in yield by more than 300 lbs/ac 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 compare it to the check, in as many different locations and years as possible. Some new cultivars or advanced breeding lines are included in the 2015 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, Cereal Research Centre, the WADO, PCDF, PESAI and CMCDC research facilities and the private research companies, without whom this publication would not have been possible.

EDIBLE BEAN TRIALS – SEEDING AND HARVEST DATES

	Seeding Date	Harvest Date
Wide Row Edible Bean – Morden	May 26	September 8
Wide Row Edible Bean – Carman	June 1	September 29
Wide Row Edible Bean – Portage	June 5	September 29
Wide Row Edible Bean – Winkler	June 5	September 15
Narrow Row Edible Bean – Boissevain	May 30	October 5
Narrow Row Edible Bean – Melita	May 25	September 3
Narrow Row Edible Bean – Morden	June 10	September 14
Narrow Row Edible Bean – Roblin	June 4	October 2

SOYBEAN TRIALS – SEEDING AND HARVEST DATES LISTED WITHIN TABLES

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.

KEY – APPLICABLE TO ALL EDIBLE BEAN CHARTS

Agronomic Traits

Yield	lbs/acre
Maturity	Number of days to when 90% of plants ready to combine
Plant Type (1–3)	1 = Determinate bush 2 = Indeterminate bush, erect stem and branches 2a: Without guides 2b: With guides and ability to climb 3 = Indeterminate bush with weak and prostrate stem and branches 3a: Short guides with no ability to climb 3b: Long guides with ability to climb
Plant Height	Plant height in cm, rated at flowering
Lodging (1–5)	Rated at maturity 1 = upright 5 = flat on the ground
Pod Ht (> 5 cm)	% of pods above 5 cm from the ground
Seed Weight	Grams per 1000 seeds
Seed Quality (1–5)	Based on size, shape, colour and wrinkle-free seed coat 1 = very good 5 = very poor

Disease Traits

Field Rating:

Bacterial Blight Severity (0–5)

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

Bacterial Blight Incidence – % leaf tissue infected

Anthracnose Incidence – % plant tissue infected

Rust Incidence – % plant tissue infected

White Mould Incidence – % plant tissue infected

NARROW ROW DRY BEAN SCREENING TRIAL

MARKET CLASS/Variety	Boissevain	Melita	Morden	Roblin	Morden				Boissevain			
	Yield (lbs/ac)				Days to Maturity	HT cm	LDG 1–5	PD HT % >5cm	Days to Maturity	HT cm	LDG 1–5	PD HT % >5cm
NAVY												
Envoy	**2132**	**1889**	**1739**	**1592**	**82**	**45**	**1**	**55**	**99**	**37**	**3**	**87**
3458-7	2100	2131	2183	1420	81	45	1	53	94	36	2	80
2918-25	–	–	2602	1947	81	47	1	53	–	–	–	–
Bolt	–	–	1896	1139	82	52	1	50	–	–	–	–
Cascade	1960	1440	1487	1042	86	63	1	60	105	45	1	93
Lightning	–	–	2046	1093	82	53	1	55	–	–	–	–
OAC Spark	–	–	2090	1630	81	40	1	50	–	–	–	–
Portage	1926	2224	2132	988	81	50	1	43	99	44	1	88
Teton	2171	1730	1952	1154	85	62	1	58	104	49	1	95
BLACK												
CDC Blackstrap	2435	2166	2295	1720	81	50	1	45	95	39	1	87
CDC Jet	1687	1605	1817	1381	82	57	1	53	103	43	1	95
CDC Super Jet	2045	1720	2004	1406	81	50	1	55	101	41	1	95
Mean	2057	1863	2020	1376	82	51	1	53	100	42	1	90
PINTO												
CDC Pintium	**2931**	**2292**	**2246**	**1309**	**79**	**43**	**1**	**58**	**92**	**37**	**2**	**87**
3119-3	2370	2136	2254	1442	82	53	1	48	97	44	2	87
AC Island	3352	2170	2393	1206	77	57	2	50	98	38	3	70
CDC Marmot	3126	2308	2296	1599	76	40	2	50	87	33	3	57
CDC WM-2	3081	2050	1898	1353	82	65	1	42	97	38	3	57
Medicine Hat	1723	1758	1972	1215	81	52	2	47	95	40	2	83
Mean	2764	2119	2176	1354	80	52	2	49	94	38	2	73
Overall Trial Mean	**2360**	**1973**	**2072**	**1369**	**81**	**51**	**1**	**51**	**98**	**40**	**2**	**83**
CV%	9.6	6.3	12.0	12.4								
LSD (lbs/ac)	379	209	425	283								
Sign Diff	Yes	Yes	Yes	Yes								

Morden

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
BLACK												
Eclipse	**2492**	**92**	**3**	**17**	**0**	**0**	**55**	**1**	**67**	**87**	**170**	**1**
BKBC6V 1312	2113	90	3	22	0	0	53	1	62	88	173	2
CDC Blackstrap	2064	87	3	6	0	0	46	1	53	87	201	1
CDC Jet	2141	89	3	13	0	0	52	1	58	88	181	1
CDC Super Jet	1994	88	3	6	0	0	53	1	50	85	181	1
Mean	2161	89	3	13	0	0	52	1	58	87	181	1
NAVY												
Envoy	**1811**	**89**	**3**	**43**	**0**	**0**	**46**	**2**	**48**	**67**	**186**	**1**
2884-4	2190	96	3	25	0	0	50	2	62	73	225	2
96-3156	1977	90	3	22	0	0	44	2	48	62	232	2
Bolt	2172	90	3	38	0	0	44	1	77	88	201	1
Cargo	1911	89	3	43	0	0	45	2	50	60	175	1
Cascade	2090	94	3	17	0	0	54	2	53	73	142	2
DS105W0	2178	94	4	33	0	0	53	2	58	72	184	2
Fathom	2289	94	3	27	0	0	48	1	72	77	189	1
Indi	2301	91	3	13	0	0	51	1	70	92	145	1
Lightning	2129	93	4	27	0	0	48	1	53	83	179	2
Nautica	2061	93	3	25	0	0	55	1	55	88	146	1
NAVC6V1200	2181	93	3	7	0	0	55	1	53	80	173	1
OB-1406-09	1883	95	3	30	0	0	48	3	43	52	148	1
OB-4179-03	2130	95	3	33	0	0	54	3	60	58	160	2
Portage	2341	89	3	3	0	0	44	1	57	82	184	2
OAC Spark	2077	88	3	33	0	0	46	2	47	62	161	2
T9903	2138	92	3	25	0	0	50	2	70	68	201	2
T9905	2420	95	3	25	0	0	52	2	68	80	172	2
Teton	2193	94	3	37	0	0	54	2	53	68	144	1
Mean	2130	92	3	27	0	0	49	2	58	73	176	2
Overall Trial Mean	**2137**	**92**	**3**	**24**	**0**	**0**	**50**	**2**	**58**	**76**	**177**	**1**
CV%	6.5											
LSD (lbs/ac)	229		Sign Diff	Yes								

Portage

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
BLACK												
Eclipse	**2245**	**93**	**0**	**0**	**0**	**0**	**51**	**1**	**55**	**90**	**203**	**2**
BKBC6V 1312	2129	91	0	0	0	0	47	1	51	90	227	3
CDC Blackstrap	1756	88	0	0	0	0	39	1	41	90	194	2
CDC Jet	1852	91	0	0	0	0	47	1	50	90	193	2
CDC Super Jet	2061	91	0	0	0	0	47	1	46	90	207	2
Mean	2009	91	0	0	0	0	46	1	49	90	205	2
NAVY												
Envoy	**1681**	**91**	**1**	**17**	**0**	**0**	**41**	**1**	**35**	**90**	**197**	**2**
2884-4	1726	101	1	7	0	0	49	1	52	90	205	3
96-3156	1430	88	0	0	0	0	41	1	41	90	231	3
Bolt	1700	88	0	7	0	0	43	1	51	90	227	2
Cargo	1680	93	0	3	0	0	42	2	40	80	195	2
Cascade	1632	91	0	0	0	0	44	1	45	90	159	3
DS105W0	2179	95	1	27	0	0	49	1	47	90	207	4
Fathom	1926	93	0	0	0	0	41	1	48	90	211	2
Indi	1826	92	0	7	0	0	47	1	54	90	164	3
Lightning	1522	91	0	3	0	0	41	1	45	90	197	2
Nautica	1784	93	0	7	0	0	51	1	45	90	158	2
NAVC6V1200	2048	88	0	3	0	0	47	1	48	90	213	2
OB-1406-09	1304	99	1	23	0	0	45	1	38	90	173	2
OB-4179-03	1794	93	1	7	0	0	51	1	45	90	186	3
Portage	1826	93	1	10	0	0	40	1	48	90	195	2
OAC Spark	1256	85	0	0	0	0	42	1	37	90	175	3
T9903	1570	95	0	0	0	0	49	0	43	90	208	2
T9905	1983	93	0	0	0	0	45	1	49	90	193	3
Teton	1590	92	0	0	0	0	47	1	47	90	160	3
Mean	1708	92	0	6	0	0	45	1	45	89	192	3
Overall Trial Mean	**1771**	**92**	**5**	**0**	**0**	**0**	**45**	**1**	**46**	**90**	**201**	**2**
CV%	8.70											
LSD (lbs/ac)	253.3		Sign Diff	Yes								

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Winkler

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	HT cm	PD HT % >5cm	TKW g	Qual 1–5
BLACK											
Eclipse	**2289**	**89**	**1**	**0**	**0**	**0**	**47**	**43**	**100**	**180**	**2**
BKBC6V 1312	2275	88	1	0	0	0	48	49	93	214	2
CDC Blackstrap	1968	83	1	3	0	0	44	38	90	234	2
CDC Jet	1826	89	1	0	0	0	46	40	90	208	2
CDC Super Jet	1948	88	1	0	0	0	46	38	90	207	3
Mean	2061	87	1	1	0	0	46	42	93	208	2
NAVY											
Envoy	**1886**	**86**	**2**	**10**	**0**	**0**	**42**	**35**	**97**	**207**	**2**
2884-4	1849	101	2	17	0	0	47	47	93	241	2
96-3156	1651	80	3	17	0	0	42	37	87	246	3
Bolt	2089	89	1	0	0	0	44	47	90	237	2
Cargo	1995	91	2	10	0	0	43	36	90	210	2
Cascade	1839	92	2	10	0	0	47	40	83	165	2
DS105W0	2743	93	1	3	0	0	49	45	70	221	3
Fathom	2269	92	1	0	0	0	44	40	97	217	2
Indi	2115	91	1	3	0	0	48	49	90	177	2
Lightning	1984	89	1	0	0	0	42	42	87	211	2
Nautica	1928	91	1	3	0	0	48	42	87	166	2
NAVC6V1200	2287	92	1	0	0	0	47	46	80	216	2
OB-1406-09	1766	95	1	3	0	0	44	33	100	184	2
OB-4179-03	2074	94	2	3	0	0	46	41	93	191	3
Portage	2010	80	2	10	0	0	43	40	100	213	2
OAC Spark	1489	80	1	0	0	0	42	38	80	187	3
T9903	2187	90	1	0	0	0	47	42	100	225	2
T9905	2420	93	1	3	0	0	46	43	100	210	3
Teton	1742	89	1	3	0	0	47	42	97	169	2
Mean	2017	90	1	5	0	0	45	41	91	205	2
Overall Trial Mean	**2026**	**89**	**1**	**4**	**0**	**0**	**45**	**41**	**91**	**206**	**2**
CV%	6.8										
LSD (lbs/ac)	227		Sign Diff	Yes							

WIDE ROW DRY BEAN SCREENING TRIAL – *MEDIUM SEED*

Morden

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
PINTO												
Windbreaker	**2192**	**92**	**3**	**17**	**0**	**0**	**47**	**2**	**55**	**65**	**368**	**1**
11278	2500	89	4	30	0	0	52	1	77	88	336	2
1173-1	2158	87	3	28	2	0	50	2	72	57	367	2
12-441	2126	90	3	25	1	0	44	3	75	50	317	1
1259-60	1725	89	3	25	2	0	44	3	70	50	372	1
El-Diablo FU	1835	88	3	27	0	0	44	3	62	43	355	1
Eldorado	2332	90	3	27	0	0	49	2	63	60	338	2
GTS 907	2332	92	4	28	0	0	49	2	72	73	325	2
Monterrey	2444	89	3	23	0	0	48	2	73	72	334	2
PIN DJ09-1012	2340	90	3	33	0	0	55	2	73	73	312	2
PIN 1314	2234	88	3	23	0	0	49	1	62	78	353	1
PT234-2-4	2293	88	3	22	0	0	49	1	65	80	317	2
Torreon	2208	89	4	22	0	0	47	3	65	53	302	2
Vibrant	2486	90	4	33	0	0	53	2	72	72	348	2
CDC WM-2	2696	90	3	23	0	0	49	2	73	78	312	1
Mean	2260	89	3	26	0	0	49	2	69	66	337	2
SMALL RED												
Viper	2347	93	4	33	0	0	55	1	65	83	240	2
GREAT NORTHERN												
Beryl R	**1764**	**87**	**3**	**22**	**0**	**0**	**49**	**3**	**77**	**43**	**263**	**2**
Aries	2190	88	3	33	1	0	49	1	68	78	328	2
Mean	1977	88	3	28	0	0	49	2	73	61	61	61
YELLOW												
CDC Sol	1743	91	4	33	0	0	44	1	47	53	347	2
PINK												
13-796	1970	92	3	18	0	0	54	2	75	68	280	1
Overall Trial Mean	**2196**	**90**	**3**	**26**	**0**	**0**	**49**	**2**	**68**	**66**	**326**	**2**
CV%	9.4											
LSD (lbs/ac)	340		Sign Diff	Yes								

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Portage

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
PINTO												
Windbreaker	**2560**	**92**	**0**	**0**	**0**	**0**	**45**	**3**	**40**	**60**	**381**	**2**
11278	2693	93	0	0	0	0	45	1	55	90	378	3
1173-1	2142	95	0	3	0	0	42	1	42	90	436	3
12-441	2192	95	0	0	0	0	41	1	39	90	374	3
1259-60	2151	91	0	0	0	0	40	3	36	80	431	2
El-Diablo FU	1908	91	1	7	0	0	40	2	37	80	410	2
Eldorado	2187	89	0	0	0	0	45	2	51	80	370	3
GTS 907	2677	95	0	0	0	0	43	1	49	90	419	3
Monterrey	2692	91	0	3	0	3	44	1	38	90	380	2
PIN DJ09-1012	2682	97	0	0	0	0	49	1	50	90	356	3
PIN 1314	2502	89	0	7	0	0	45	1	51	90	399	2
PT234-2-4	2587	91	0	7	0	0	46	1	50	90	333	2
Torreon	1766	93	0	0	0	0	42	1	43	90	352	2
Vibrant	2499	94	0	0	0	0	47	1	52	90	387	3
CDC WM-2	2457	93	0	0	0	0	45	1	51	90	368	2
Mean	2380	93	0	2	0	0	44	1	46	86	385	3
SMALL RED												
Viper	2635	97	0	0	0	0	47	1	53	90	278	2
GREAT NORTHERN												
Beryl R	**2155**	**91**	**0**	**0**	**0**	**0**	**41**	**1**	**42**	**80**	**312**	**2**
Aries	2216	93	0	3	0	0	45	2	51	80	357	2
Mean	2186	92	0	2	0	0	43	2	46	80	334	2
YELLOW												
CDC Sol	1673	91	0	0	0	0	39	1	44	80	421	3
PINK												
13-796	2238	93	0	7	0	0	47	1	52	90	366	3
Overall Trial Mean	**2331**	**93**	**0**	**2**	**0**	**0**	**44**		**46**	**86**	**375**	**3**
CV%	4.7											
LSD (lbs/ac)	181		Sign Diff	Yes								

Winkler

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	HT cm	PD HT % >5cm	TKW g	Qual 1–5
PINTO											
Windbreaker	**2810**	**87**	**1**	**0**	**0**	**0**	**44**	**43**	**70**	**391**	**2**
11278	2579	85	1	0	0	0	44	62	80	361	3
1173-1	2057	88	1	3	0	0	42	45	80	432	3
12-441	2270	88	1	3	0	0	42	32	80	419	3
1259-60	2117	81	2	7	0	0	41	36	70	383	3
El-Diablo FU	2011	79	1	3	0	0	41	35	90	413	2
Eldorado	2478	86	1	0	0	0	44	47	70	393	3
GTS 907	2709	93	1	0	0	0	42	47	70	419	4
Monterrey	2956	86	1	0	0	0	42	39	67	408	2
PIN DJ09-1012	2440	89	1	0	0	0	41	52	83	335	3
PIN 1314	2586	85	1	0	0	0	42	49	80	349	2
PT234-2-4	2700	85	1	0	0	0	45	43	77	406	2
Torreon	1932	84	1	0	0	0	41	37	70	360	2
Vibrant	2305	87	1	0	0	0	45	54	90	367	2
CDC WM-2	2632	86	1	0	0	0	43	48	87	285	2
Mean	2439	86	1	1	0	0	43	45	78	381	3
SMALL RED											
Viper	2768	91	1	0	0	0	44	56	97	370	3
GREAT NORTHERN											
Beryl R	**2124**	**80**	**2**	**10**	**0**	**0**	**42**	**31**	**77**	**292**	**2**
Aries	2357	86	2	10	0	0	43	54	87	366	2
Mean	2241	83	2	10	0	0	43	43	82	329	2
YELLOW											
CDC Sol	2122	86	1	3	0	0	38	39	80	427	2
PINK											
13-796	2241	88	1	0	0	0	44	46	90	358	3
Overall Trial Mean	**2410**	**86**	**1**	**2**	**0**	**0**	**43**	**45**	**80**	**377**	**3**
CV%	6.6										
LSD (lbs/ac)	265		Sign Diff	Yes							

WIDE ROW DRY BEAN SCREENING TRIAL – *LARGE SEED*

Carman

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	HT cm	PD HT % >5cm	TKW g	Qual 1–5
CRANBERRY											
Cran 09	**2413**	**72**	**1**	**3**	**0**	**0**	**44**	**47**	**80**	**549**	**3**
Etna	2160	69	3	37	0	0	43	53	73	551	3
Krimson	2286	70	1	7	0	0	43	52	83	568	3
SV3709GC	1995	72	2	7	0	0	41	43	77	581	3
CR318-6	2860	70	1	7	0	0	43	48	83	591	2
Mean	2343	71	2	12	0	0	43	49	79	568	3
LIGHT RED KIDNEY											
Pink Panther	**2121**	**71**	**2**	**20**	**0**	**0**	**41**	**48**	**83**	**585**	**3**
09351	2459	71	2	17	0	0	41	48	67	573	3
09357	2362	75	2	23	0	0	41	52	80	597	3
09378	2313	71	2	10	0	0	41	42	70	580	3
Clouseau	2085	69	2	17	0	0	42	50	67	594	3
Mean	2268	72	2	17	0	0	41	48	73	585	3
Overall Trial Mean	**2305**	**71**	**2**	**15**	**0**	**0**	**42**	**48**	**76**	**577**	**3**
CV%	12.96										
LSD (lbs/ac)	–		Sign Diff	No							

Morden

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
CRANBERRY												
Cran 09	**1458**	**90**	**4**	**47**	**0**	**0**	**48**	**2**	**52**	**50**	**388**	**2**
Etna	1718	96	4	50	0	0	44	1	50	53	428	2
Krimson	1817	93	4	47	0	0	44	1	50	53	434	2
SV3709GC	1715	94	4	37	0	0	44	2	43	55	471	2
CR318-6	1857	94	4	47	0	0	44	2	45	50	454	2
Mean	1713	93	4	45	0	0	45	2	48	52	435	2
LIGHT RED KIDNEY												
Pink Panther	**2035**	**94**	**4**	**27**	**0**	**0**	**44**	**2**	**50**	**55**	**463**	**2**
09351	1540	91	4	35	0	0	44	1	50	63	442	2
09357	1693	90	4	43	0	0	44	1	47	63	470	2
09378	1634	92	4	37	0	0	44	1	47	52	469	2
Clouseau	1657	94	3	43	0	0	44	1	52	53	450	2
Mean	1712	92	4	37	0	0	44	1	49	57	459	2
Overall Trial Mean	**1713**	**93**	**4**	**41**	**0**	**0**	**44**	**1**	**49**	**55**	**447**	**2**
CV%	8.80											
LSD (lbs/ac)	–		Sign Diff	No								

continued next page

Portage

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Qual 1–5
CRANBERRY												
Cran 09	**1279**	**87**	**1**	**3**	**0**	**0**	**40**	**1**	**41**	**90**	**474**	**3**
Etna	1458	92	1	17	0	0	39	1	47	90	516	2
Krimson	1515	89	1	6	0	0	38	1	42	90	527	2
SV3709GC	1145	87	0	0	0	0	39	1	38	90	541	3
CR318-6	1522	91	1	10	0	0	40	1	49	90	517	2
Mean	1384	89	7	1	0	0	0	1	43	90	515	2
LIGHT RED KIDNEY												
Pink Panther	**1071**	**91**	**0**	**10**	**0**	**0**	**41**	**1**	**47**	**90**	**540**	**4**
09351	1171	87	0	3	0	0	39	1	44	90	533	3
09357	864	83	0	0	0	0	38	1	43	80	523	4
09378	1051	82	0	0	0	0	35	1	42	80	546	3
Clouseau	1058	88	0	0	0	0	39	1	47	80	543	3
Mean	1043	86	0	3	0	0	38	1	45	84	537	3
Overall Trial Mean	**1213**	**88**	**0**	**3**	**0**	**0**	**39**	**1**	**44**	**87**	**526**	**3**
CV%	10.50											
LSD (lbs/ac)	219		Sign Diff	Yes								

Winkler

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	HT cm	PD HT % >5cm	TKW g	Qual 1–5
CRANBERRY											
Cran 09	**1803**	**84**	**1**	**3**	**0**	**0**	**46**	**42**	**87**	**446**	**3**
Etna	1524	86	2	7	0	0	45	45	80	486	2
Krimson	1792	82	1	3	0	0	45	40	90	492	2
SV3709GC	1540	82	2	10	0	0	48	35	80	497	3
CR318-6	1837	82	1	0	0	0	43	40	90	507	3
Mean	1699	83	2	5	0	0	45	41	85	486	3
LIGHT RED KIDNEY											
Pink Panther	**1490**	**86**	**1**	**3**	**0**	**0**	**48**	**47**	**100**	**527**	**3**
09351	1363	82	1	3	0	0	48	40	87	524	3
09357	1530	81	2	7	0	0	44	38	80	564	3
09378	1438	82	1	0	0	0	44	39	80	539	2
Clouseau	1421	86	1	0	0	0	48	41	80	515	3
Mean	1443	83	1	3	0	0	46	40	82	534	3
Overall Trial Mean	**1574**	**83**	**1**	**4**	**0**	**0**	**46**	**41**	**85**	**510**	**3**
CV%	9.10										
LSD (lbs/ac)	246		Sign Diff	Yes							

WIDE ROW DRY BEAN SCREENING TRIAL – *SUMMARY*

MARKET CLASS/Variety	Yield (lbs/ac)	Days to Maturity	CBB Sever 0–5	CBB Incid %	Rust %	WM Incid %	Days to Flower	LDG 1–5	HT cm	PD HT % >5cm	TKW g	Plant Type 1–3
BLACK												
Eclipse	**2342**	**91**	**1**	**6**	**0**	**0**	**51**	**1**	**55**	**92**	**184**	**2**
BKBC6V 1312	2172	90	1	7	0	0	49	1	54	91	204	2
CDC Blackstrap	1930	86	1	3	0	0	43	1	44	89	210	2
CDC Jet	1940	90	1	4	0	0	48	1	50	89	194	2
CDC Super Jet	2001	89	1	2	0	0	49	1	45	88	198	2
NAVY												
Envoy	**1792**	**89**	**2**	**23**	**0**	**0**	**43**	**2**	**39**	**84**	**197**	**1**
2884-4	1922	99	2	16	0	0	49	1	54	86	223	1
96-3156	1686	86	2	13	0	0	42	2	42	79	236	2
Bolt	1987	89	1	15	0	0	44	1	58	89	222	2
Cargo	1862	91	2	19	0	0	43	2	42	77	193	1
Cascade	1853	92	2	9	0	0	48	2	46	82	155	2
DS105W0	2367	94	2	21	0	0	50	2	50	77	204	2
Fathom	2161	93	1	9	0	0	44	1	53	88	205	2
Indi	2081	91	1	8	0	0	49	1	58	91	162	2
Lightning	1878	91	2	10	0	0	44	1	47	87	195	2
Nautica	1924	92	1	12	0	0	51	1	47	88	157	2
NAVC6V1200	2172	91	1	3	0	0	50	1	49	83	201	1
OB-1406-09	1651	96	2	19	0	0	46	2	38	81	168	1
OB-4179-03	2000	94	2	15	0	0	51	2	49	81	179	2
Portage	2059	88	2	8	0	0	42	1	48	91	197	2
OAC Spark	1607	84	1	11	0	0	43	2	41	77	175	1
T9903	1965	92	1	8	0	0	49	1	51	86	212	2
T9905	2274	94	1	9	0	0	48	2	54	90	192	2
Teton	1842	92	1	13	0	0	49	2	47	85	157	2
PINTO												
Windbreaker	**2520**	**91**	**1**	**6**	**0**	**0**	**45**	**3**	**46**	**65**	**380**	**2**
11278	2591	89	2	10	0	0	47	1	65	86	358	2
1173-1	2119	90	1	12	1	0	45	2	53	76	412	2
12-441	2196	91	1	9	0	0	42	2	49	73	370	2
1259-60	1998	87	2	11	1	0	42	3	48	67	395	2
El-Diablo FU	1918	86	2	12	0	0	42	2	44	71	392	2
Eldorado	2332	88	1	9	0	0	46	2	54	70	367	2
GTS 907	2573	93	2	9	0	0	45	1	56	78	388	2
Monterrey	2698	89	1	9	0	1	45	2	50	76	374	2
PIN DJ09-1012	2487	92	1	11	0	0	48	1	58	82	335	2
PIN 1314	2441	87	1	10	0	0	45	1	54	83	367	2
PT234-2-4	2527	88	1	10	0	0	47	1	53	82	352	2
Torreon	1969	89	2	7	0	0	43	2	48	71	338	2
Vibrant	2430	90	2	11	0	0	48	2	59	84	367	2
CDC WM-2	2595	90	1	8	0	0	46	2	57	85	322	2
SMALL RED												
Viper	2584	94	2	11	0	0	49	1	58	90	296	1
GREAT NORTHERN												
Beryl R	**2015**	**86**	**2**	**11**	**0**	**0**	**44**	**2**	**50**	**67**	**289**	**2**
Aries	2254	89	2	15	0	0	46	2	58	82	350	2
YELLOW												
CDC Sol	1846	89	2	12	0	0	40	1	43	71	398	1
PINK												
13-796	2150	91	1	8	0	0	48	2	58	83	335	2
CRANBERRY												
Cran 09	**1738**	**83**	**2**	**14**	**0**	**0**	**44**	**2**	**46**	**77**	**464**	**1**
Etna	1715	86	2	28	0	0	43	1	49	74	495	1
Krimson	1853	83	2	16	0	0	42	1	46	79	505	1
SV3709GC	1599	84	2	13	0	0	43	2	40	75	522	1
CR318-6	2019	84	2	16	0	0	43	1	46	78	517	1
LIGHT RED KIDNEY												
Pink Panther	**1679**	**86**	**2**	**15**	**0**	**0**	**44**	**1**	**48**	**82**	**529**	**1**
09351	1633	83	2	15	0	0	43	1	46	77	518	1
09357	1612	82	2	18	0	0	42	1	45	76	538	1
09378	1609	82	2	12	0	0	41	1	42	70	533	1
Clouseau	1555	84	2	15	0	0	43	1	48	70	525	1

LENTILS

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

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

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

VARIETY DESCRIPTIONS & YIELD COMPARISONS

MARKET CLASS/Variety	Yield % Check	Site Years Tested	Maturity Rating [1]	Resistance Level: Ascochyta Blight	Resistance Level: Anthracnose Race 1	Seed Wt (TKW)	Cotyledon Colour	2015 Yield: % of CDC Maxim: Hamiota	2015 Yield: % of CDC Maxim: Melita
SMALL GREEN									
CDC Asterix	95	5	Early	G	F	26	Yellow	104	93
CDC Imvincible Cl	78	14	Early	G	G	35	Yellow	93	102
CDC Milestone	80	10	Early	G	VP	37	Yellow	–	–
Eston	82	7	Early	VP	VP	33	Yellow	–	–
MEDIUM GREEN									
CDC Imigreen CL	63	11	Medium	G	F	63	Yellow	–	–
CDC Impress CL	68	11	Medium	G	P	52	Yellow	–	–
CDC Richlea	76	7	Medium	VP	VP	51	Yellow	–	–
LARGE GREEN									
CDC Greenland	63	10	Med/Late	G	VP	64	Yellow	–	–
CDC Greenstar	98	3	Med/Late	G	F	73	Yellow	84	111
CDC Impower Cl	67	8	Medium	G	P	74	Yellow	58	91
CDC Improve CL	70	11	Medium	F	VP	67	Yellow	–	–
CDC Plato	61	11	Med/Late	G	P	62	Yellow	–	–
Laird	54	7	Very Late	VP	VP	67	Yellow	–	–
FRENCH GREEN									
CDC Peridot CL	78	11	Early	G	P	40	Yellow	–	–
CDC Marble	113	5	Early/Med	F	G	32	Yellow	118	116
CDC QG-2	85	3	Early/Med	F	G	33	Yellow	77	108
EXTRA SMALL RED									
CDC Robin	78	10	Early	G	G	30	Red	–	–
CDC Impala CL	81	11	Early	G	G	31	Red	–	–
CDC Imperial CL	77	11	Early	G	G	30	Red	–	–
CDC Redbow	84	8	Early/Med	G	G	42	Red	–	–
CDC Rosebud	87	10	Early	G	G	29	Red	–	–
CDC Rosie	90	5	Early/Med	G	G	30	Red	90	85
CDC Rosetown	88	11	Early	G	G	31	Red	–	–
CDC Ruby	92	2	Early	G	G	29	Red	–	–
SMALL RED									
CDC Dazil	99	6	Early/Med	G	F	35	Red	105	112
CDC Imax CL	82	14	Medium	G	G	50	Red	81	91
CDC Impact CL	78	10	Early	G	P	34	Red	–	–
CDC Maxim CL	100	16	Early/Med	G	G	40	Red	100	100
CDC Red Rider	83	2	Early/Med	G	F	45	Red	–	–
CDC Redberry	97	11	Early/Med	G	G	42	Red	–	–
CDC Redcoat	78	8	Early	G	G	40	Red	–	–
CDC Scarlet	105	5	Early/Med	G	F	36	Red	97	112
LARGE RED									
CDC-KR I	80	11	Medium	G	G	56	Red	83	88
CHECK CHARACTERISTICS							CDC Maxim (lbs/ac)	3120	2788
CDC Maxim	3215 lbs/ac	16 site years					CV%	11.8	8.3
							LSD (%)	20	14
							Sign Diff	Yes	Yes
							Seeding Date	08-May	29-Apr
							Harvest Date	22-Sep	18-Aug

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

FIELD PEAS

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

New varieties for 2016

Variety	Code	Breeder	Distributor	Seed Availability
AAC Lacombe	MP1899	AAFC Lacombe	SeedNet Inc	2016
CDC Inca	CDC 2847-21	Crop Development Centre	Saskatchewan Pulse Growers	2018
AAC Royce	MP1880	AAFC Lacombe	Columbia Seeds	2018
AAC Radius	MP 1867	AAFC Lacombe	Columbia Seeds	2018

VARIETY DESCRIPTIONS

						Resistance Level							
MARKET CLASS/Variety	Site Years Tested	Yield (bu/acre)	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Green Seed Coats [1]	Lodging	Powdery Mildew	Mycos-phaerella blight	Fusarium Wilt [2]	Bleaching	Seed Coat Breakage	Seed Coat Dimpling [3]
YELLOW													
AAC Ardill	6	71	M	M	240	n/a	G	VG	F	G	n/a	G	n/a
AAC Lacombe	4	72	M	L	270	F	G	VG	F	F	n/a	G	G
Abarth	6	71	E	M	280	G	VG	VG	F	F	n/a	F	G
AC Earlystar	6	72	E	M	210	G	G	VG	F	F	n/a	F	G
Agassiz	43	74	M	M	230	G	G	VG	F	F	n/a	G	F
Argus	14	70	M	M	230	G	G	VG	F	F	n/a	F	F
CDC Amarillo	6	76	M	M	230	G	VG	VG	F	G	n/a	F	F
CDC Bronco	31	63	M	M	230	G	G	VG	F	F	n/a	G	G
CDC Centennial	20	73	E	S	270	F	F	VG	F	F	n/a	G	G
CDC Golden	48	68	M	M	230	G	G	VG	F	F	n/a	G	G
CDC Hornet	30	70	M	M	220	G	G	VG	F	F	n/a	F	G
CDC Inca	4	76	M	L	230	F	G	VG	F	F	n/a	G	G
CDC Meadow	56	73	E	M	220	G	G	VG	F	F	n/a	G	G
CDC Mozart	34	71	M	S	220	F	F	VG	F	F	n/a	G	G
CDC Prosper	29	65	E	M	150	G	G	VG	F	G	n/a	G	F
CDC Saffron	20	73	M	M	250	G	G	VG	F	F	n/a	G	F
CDC Treasure	37	70	E	M	210	G	G	VG	F	G	n/a	F	F
Cutlass	65	68	M*	M*	220	G	G	VG	F	F	n/a	F	F
Eclipse	62	71	M	M	250	G	G	VG	F	F	n/a	G	F
Hugo	14	70	M	M	220	n/a	G	VG	F	G	n/a	G	n/a
Polstead	35	70	M	M	280	F	G	VG	P	P	n/a	F	F
Reward	20	72	M	L	240	F	G	VG	F	F	n/a	G	G
Sorento	28	71	M	M	260	G	F	VG	F	F	n/a	G	F
SW MIDAS	29	70	E	M	220	G	G	VG	F	F	n/a	G	G
Thunderbird	26	72	M	M	220	F	G	VG	F	F	n/a	G	G
GREEN													
AAC Radius	6	62	M	M	230	n/a	G	VG	F	G	VG	VG	G
AAC Royce	70	4	M	M	250	n/a	F	VG	F	F	G	G	n/a
CDC Greenwater	6	74	L	M	220	n/a	G	VG	F	G	G	VG	G
CDC Limerick	6	73	L	M	210	n/a	VG	VG	F	F	G	VG	G
CDC Patrick	42	68	M	M	190	n/a	G	VG	F	G	G	G	G
CDC Pluto	9	68	M	M	160	n/a	F	VG	F	F	G	G	G
CDC Raezer	11	67	M	M	220	n/a	VG	VG	F	G	G	G	G
CDC Sage	19	59	M	M	220	n/a	G	VG	F	G	G	G	F
CDC Striker	61	65	M	M	230	n/a	VG	P	F	G	G	VG	G
CDC Tetris	25	68	L	M	210	n/a	G	VG	F	G	G	G	G
COOPER	47	69	L	M	270	n/a	G	VG	F	F	G	F	G
OTHER PEA TYPES													
CDC Dakota (Dun)	19	76	M	M	205	n/a	VG	VG	F	n/a	n/a	G	VG
CDC Horizon (Silage)	17	63	M	L	170	G	G	VG	F	n/a	n/a	G	G
CDC Leroy (Silage)	20	62	M	L	150	G	F	VG	F	n/a	n/a	G	G
CDC Mosaic (Maple)	17	60	L	M	180	n/a	G	VG	F	n/a	n/a	G	VG
CDC Rocket (Maple)	19	64	M	M	210	n/a	F	VG	F	n/a	n/a	G	VG
CDC Tucker (Silage)	21	65	M	L	170	F	G	VG	F	n/a	n/a	G	G
Stella (Silage)	14	58	L	L	220	n/a	G	VG	F	n/a	n/a	G	n/a
GRAND MEAN		65											
LSD (0.05)		4											

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

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

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

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

Plant Breeders' Rights

YIELD COMPARISONS – FIELD PEAS

MARKET CLASS/Variety		2015 Yield (bu/acre) Boissevain	Hamiota	Melita	Thornhill
YELLOW					
AAC Ardill		95	52	70	77
AAC Lacombe		98	52	62	91
Abarth		95	42	77	79
AC Earlystar		99	73	67	80
Agassiz		93	60	70	79
CDC Amarillo		101	78	81	82
CDC Golden		85	64	64	75
CDC Inca		101	82	72	84
CDC Meadow		98	65	71	79
CDC Saffron		90	57	73	81
GREEN					
AAC Radius		97	68	60	63
AAC Royce		92	59	79	78
CDC Greenwater		97	73	71	86
CDC Limerick		102	85	71	79
CDC Patrick		89	81	62	69
CDC Striker		90	57	68	71
SITE GRAND MEAN (bu/acre)		95	65	70	78
	CV %	5.6	8.9	8.6	8.8
	LSD (bu/ac)	9	10	10	11
	Sign Diff	Yes	Yes	Yes	Yes
	Seeding Date	12-May	08-May	29-Apr	01-May
	Harvest Date	26-Aug	02-Sep	10-Aug	25-Aug

FABA BEANS

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

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

VARIETY DESCRIPTIONS & YIELD COMPARISON

MARKET CLASS/Variety	Yield (lbs/ac)	Site Years Tested	Seed Size TKW (g)	Maturity* (days)	2015 Yield % Check Variety Arborg
Coloured Flower (Tannins)					
CDC Fatima	4010	33	520	105	–
CDC SSNS-1	5579	11	335	105	–
Florent	5196	8	660	107	–
Taboar ⓟ	4689	13	480	107	–
CHECK CHARACTERISTICS					
Snowbird (zero tannin)	4010	33			
White Flower (Zero Tannin)					
CDC Snowdrop	5367	9	335	104	95
Snowbird ⓟ	5347	12	495	104	100
Tabasco ⓟ	5207	8	530	106	96
CHECK CHARACTERISTICS					
Snowbird (Zero Tannin)	5347	12		Snowbird (lbs/ac)	3690
				CV%	10.5
				LSD%	17
				Sign Diff	Yes
				Seeding Date	25-May
				Harvest Date	02-Sep

* Maturity ratings are based on days until swathing, but will vary depending on seeding date ⓟ Plant Breeders' Rights

NOTES FOR ALL SOYBEAN TABLES

MATURITY NOTES – *always use more than one criteria to evaluate 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 Maturity grouping is a ranking of maturity provided by seed suppliers. These rankings are assigned to varieties to assist growers to select varieties suited for their area.

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. 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 and Conventional soybean varieties are evaluated separately, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 seeds/acre.

2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF), Tan (TN), Imperfect Black (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 three 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. 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.

WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

In 2015, trials were located at Boissevain, Dauphin, Hamiota, Melita, and Roblin

VARIETY DESCRIPTIONS & YIELD BY LOCATION

Company Maturity Grouping	Variety	Yield % Check	Site Years Tested	Relative Days to Maturity [1] + / - of Check				2015 Yield % of 23-10RY				
				Average	2015	2014	2013	Boissevain	Dauphin	Hamiota	Melita	Roblin
000	P001T34R	83	14	-5	-2	-6	-7	90	84	96	82	100
000.9	S009-M2	108	5	-2	-2	-	-	107	105	106	99	131
00.2	P002T04R	95	9	-2	0	-3	-	99	82	96	85	101
000.9	NSC Moosomin RR2Y	92	14	-1	1	-3	-2	112	77	85	86	83
00.1	23-10RY	100	20	0	0	0	0	100	100	100	100	100
000.8	22-60 RY	100	9	1	2	1	-	103	91	102	100	105
00.2	LS NorthWester	102	9	2	3	1	-	103	93	97	91	105
00.2	NSC Anola RR2Y	107	14	2	6	3	-2	104	93	94	100	105
00.1	NSC Reston RR2Y	99	15	2	3	2	2	117	88	100	100	100
00.2	LS 002R24N	107	14	3	6	2	0	111	94	98	108	110
00.3	23-60RY	105	14	3	5	-2	5	109	93	102	98	106
00.3	TH 33003R2Y	104	15	3	8	3	-2	123	92	99	103	101
00.2	Bishop R2	100	15	3	6	3	0	112	102	93	91	102
00.3	McLeod R2	107	15	3	6	4	0	103	92	96	101	101
00.1	Pekko R2	99	20	4	5	5	1	101	99	100	97	109
00.4	TH 32004R2Y	112	20	4	7	3	1	107	96	105	108	101
00.3	PS 0035 NR2	103	14	4	8	3	1	95	96	101	103	106
00.3	NSC Gladstone RR2Y	107	14	4	9	4	0	103	108	101	112	111
00.4	NSC Tilston RR2Y	106	15	4	8	5	0	118	95	99	104	104
00.1	Notus R2	99	9	5	5	4	–	105	98	105	105	102
000.9	23-11 RY	100	9	5	4	5	–	113	88	101	96	107
00.6	900Y61	99	20	5	9	3	2	101	90	99	88	100
00.5	S007-Y4	114	9	5	6	4	–	120	108	106	114	112
00.6	P006T78R	110	5	5	5	–	–	124	103	105	105	117
00.2	Vito R2	97	15	5	8	6	2	104	94	97	97	95
00.3	Mahony R2	111	9	6	6	5	–	110	104	114	103	112
00.2	TH 35002R2Y	97	9	6	7	5	–	119	100	98	116	118
00.5	TH 33005R2Y	106	14	6	9	7	3	104	93	101	107	96
00.3	Akras R2	109	9	7	8	5	–	114	107	106	102	102
00.3	LS 003R24N	101	9	7	8	5	–	113	95	97	101	110
00.5	PRO 2525R2	113	10	7	11	–	3	108	92	101	103	113
00.5	Lono R2	108	9	8	8	7	–	114	97	105	100	115
00.4	Hero R2	109	9	8	9	6	–	122	104	114	114	120
00.6	HS 006RYS24	101	15	8	9	6	–	106	94	101	110	108
Experimental lines that are being tested/proposed for registration in Canada												
000.9	NSC Watson RR2Y	96	5	-1	-1	–	–	107	92	96	85	101
CHECK CHARACTERISTICS							23-10RY (bu/acre)	57	62	54	42	32
23-10RY		50 bu/acre	20 site years	126	115	127	135 days to maturity					
							CV%	5.4	7.7	5.2	4.0	10.2
							LSD%	9	13	8	6	17
							Sign Diff	Yes	Yes	Yes	Yes	Yes
							Seeding Date	21-May	22-May	28-May	15-May	22-May
							Harvest Date	06-Oct	15-Oct	15-Oct	30-Sep	14-Oct

[1] Maturity based on data from Boissevain, Dauphin, Hamiota, Melita, Roblin.

ROUNDUP READY SOYBEANS

New varieties for 2016

Variety	Previous Code	Distributor	Seed Availability
Podaga R2	CFS12.5.01 R2	Brett Young	2016
Lono R2	CFS13.2.01 R2	Brett Young	2016
22-60RY	MKZ913A4	DEKALB	2016
23-11RY	MKZ613A3	DEKALB	2016
24-11RY	FLZ612A3	DEKALB	2016
LS Northwester	LS Northwester	Delmar Commodities	2016
LS Maidan	LS Maidan	Delmar Commodities	2016

Variety	Previous Code	Distributor	Seed Availability
LS 008R560	DAS008G13R2	Delmar Commodities	2016
P006T78R	PH 14002	DuPont Pioneer	2016
NSC Arnaud RR2Y	NSC Arnaud RR2Y	Northstar Genetics Manitoba	2016
PS 0055 R2	EXP 00813BNR2	PRIDE Seeds	2016
Mahony R2	SC2350R2	SeCan	2016
S0009-M2	S0009-M2	Syngenta Canada	2016

variety descriptions follow next page

ROUNDUP READY SOYBEANS – VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type[1]	Relative Days to Maturity[2] + / - of Check				Yield % Check	Site Years Tested	Hilum Colour	Lodging[3]		IDC[4]		Notes[5]
				Average	2015	2014	2013				Clay	Loam	Rating (1– 5)	Grouping	
Short Season Zone	000	P001T34R	RR1	-12	-10	-13	-12	67	24	BR	1.0	1.3	2.0	ST	–
	00.2	P002T04R	RR1	-9	-9	-9	–	76	13	TN	1.1	1.5	2.1	ST	1k
	000.9	NSC Moosomin RR2Y	R2Y	-7	-5	-8	-8	82	19	BR	1.1	1.3	2.9	S	–
	000.8	22-60RY	R2Y	-6	-7	-6	–	88	13	BL	1.1	1.0	2.1	ST	1c
	000.9	S0009-M2	R2Y	-6	-6	–	–	89	6	BR	1.9	1.7	2.0	ST	Rps6
	00.1	Pekko R2	R2Y	-5	-5	-5	-5	92	29	BL	1.2	1.7	2.2	ST	–
	00.2	Bishop R2	R2Y	-5	-4	-5	-4	90	30	IY	1.6	2.5	2.3	S	–
	00.2	LS Northwester	R2Y	-4	-5	-4	–	86	13	BL	1.6	1.8	1.8	ST	–
	00.1	NSC Reston RR2Y	R2Y	-4	-3	-5	-5	92	25	BL	1.6	1.2	2.7	S	1k
	000.9	23-11RY	R2Y	-4	-3	-5	–	92	13	BL	1.2	1.3	1.6	T	1c
	00.3	Mahony R2	R2Y	-4	-3	-4	–	100	13	BL	1.5	1.7	2.7	S	–
	00.5	S007-Y4	R2Y	-3	-3	-4	-4	103	19	IY	1.2	1.5	2.1	ST	1c
	00.1	Notus R2	R2Y	-3	-3	-3	–	93	13	BL	1.1	1.3	1.7	T	1c
	00.3	23-60RY	R2Y	-3	-2	-4	-3	100	19	BL	1.7	2.3	1.7	T	–
	00.3	McLeod R2	R2Y	-3	-3	-4	-2	95	25	BL	1.2	1.3	1.7	T	–
	00.6	P006T78R	RR1	-3	-4	-2	–	93	13	BR	1.0	1.0	2.0	ST	1c
	00.3	PS 0035 NR2	R2Y	-3	-2	-4	-3	98	19	BL	1.4	2.3	1.8	ST	SCN
	00.4	PS 0055 R2	R2Y	-3	-3	-2	–	95	12	IY	1.2	1.3	1.7	T	–
	00.2	NSC Anola RR2Y	R2Y	-3	-2	-2	-4	96	29	BL	1.1	1.0	1.8	ST	1c
	00.4	TH 32004R2Y	R2Y	-3	-1	-2	-4	99	33	BL	1.2	2.0	2.0	ST	1c
	00.2	LS 002R24N	R2Y	-2	-1	-3	-2	100	19	BL	1.5	1.7	2.2	ST	SCN
	00.2	TH 35002R2Y	R2Y	-2	-1	-3	–	91	13	BL	1.5	2.8	2.5	S	–
	00.3	NSC Gladstone RR2Y	R2Y	-2	-1	-3	-1	96	19	BL	1.4	1.7	2.0	ST	–
	00.3	Akras R2	R2Y	-2	-2	-1	-2	100	24	IB	1.2	1.3	1.7	T	1K
		Experimental lines that are being tested/proposed for registration in Canada													
	000.9	NSC Watson RR2Y	R2Y	-6	-6	–	–	87	6	IY	1.4	1.8	1.6	T	–
	000	PR1418113R2	R2Y	-4	-4	–	–	87	6	BL	2.6	2.3	2.3	S	–
	00.4	AR1215503	R2Y	-3	-3	–	–	91	6	BR	1.4	1.7	1.9	ST	–
	00.7	AR1310870	R2Y	-3	-3	–	–	89	6	Y	1.2	1.2	2.0	ST	–
Mid Season Zone	00.5	24-11RY	R2Y	-1	-2	-1	–	96	13	BL	1.4	2.3	1.7	T	–
	00.6	S00-N6	R2Y	-1	0	-3	0	99	19	BL	1.3	2.3	2.0	ST	–
	00.5	TH 33005R2Y	R2Y	-1	-1	0	-2	103	25	BL	1.1	1.0	2.0	ST	1c,1k
	00.3	LS 003R24N	R2Y	-1	0	-3	0	96	19	BL	1.3	1.8	1.8	ST	SCN
	00.6	Chadburn R2	R2Y	-1	0	-1	-1	95	32	BL	1.1	1.8	1.7	T	–
	00.2	Vito R2	R2Y	-1	-1	-1	–	92	29	GR	1.5	1.8	2.0	ST	1k
	00.5	Lono R2	R2Y	-1	-1	0	-2	103	19	Br	1.1	1.3	1.9	ST	1K
	00.6	900Y61	RR1	0	0	0	-1	91	31	BR	1.2	1.5	1.6	T	1c
	00.4	NSC Tilston RR2Y	R2Y	0	1	-1	-1	97	29	BL	1.8	2.8	1.8	ST	–
	00.3	TH 33003R2Y	R2Y	0	2	-1	-2	97	30	BR	1.9	2.5	2.0	ST	1c
	00.8	P008T70R	RR1	0	-1	-1	1	102	19	TN	1.3	1.5	1.9	ST	1k
	00.6	TH 34006R2Y	R2Y	0	0	0	0	100	18	BL	1.3	1.3	2.0	ST	–
	00.5	Gray R2	R2Y	0	1	0	0	96	25	BL	1.3	1.7	1.9	T	1c
	00.5	24-10RY	R2Y	0	0	0	0	100	41	BL	1.3	1.0	1.9	ST	1k
	00.6	HS 006RYS24	R2Y	0	2	-2	1	96	30	BL	1.3	1.8	1.7	T	SCN
	00.7	HS 007RY32	R2Y	1	2	-1	2	100	18	BL	1.2	2.0	1.8	ST	1c,1k
	00.4	Hero R2	R2Y	1	1	0	1	101	19	BL	1.2	2.5	2.3	ST	1c
	00.5	NSC Sanford R2Y	R2Y	1	2	1	0	101	19	GR	2.0	3.0	2.0	ST	–
	00.8	P008T22R2	R2Y	1	1	1	2	101	19	BL	1.3	2.0	1.6	T	1c
	00.5	LS Maidan	R2Y	1	1	–	–	97	6	Y	1.2	2.3	2.2	ST	–
	00.5	PRO 2525R2	R2Y	1	3	0	–	105	13	BL	1.5	1.5	1.7	T	1c
		Experimental lines that are being tested/proposed for registration in Canada													
	000	PR1313806R2	R2Y	-1	-1	–	–	88	6	Y	1.2	2.3	2.9	S	–
	00.7	AR1210501	R2Y	-1	-1	–	–	110	6	Y	1.3	1.8	2.4	S	–
	00.8	EXP 00816 R2	R2Y	1	1	–	–	97	6	IB	1.2	1.5	2.1	ST	–
Long Season Zone	00.8	NSC Arnaud RR2Y	R2Y	2	3	0	–	101	12	BL	2.1	2.5	2.3	ST	–
	00.7	NSC Richer RR2Y	R2Y	2	2	1	2	102	28	BL	1.6	2.2	1.7	T	1c
	00.9	S00-T9	R2Y	2	2	3	1	105	23	BL	1.4	1.5	1.8	ST	1k
	00.5	LS 005R22	R2Y	2	3	1	3	96	23	BL	1.7	2.0	1.8	ST	–
	00.8	PS 0074 R2	R2Y	2	3	3	1	105	23	BR	2.2	3.0	1.6	T	–
	00.8	25-10RY	R2Y	3	4	2	4	104	28	BL	1.7	2.0	1.8	ST	1c
	00.8	Currie R2	R2Y	4	3	3	5	101	29	BL	1.2	2.2	1.8	ST	1k
	00.8	Podaga R2	R2Y	4	4	3	–	96	12	BR	1.4	2.5	1.7	T	1K
	00.5	LS 005R24	R2Y	4	7	1	4	104	18	BL	2.5	2.8	1.8	ST	–
	00.7	Astro R2	R2Y	5	5	4	6	107	28	BL	1.5	2.2	1.7	T	1k
	00.8	LS 008R560	R2Y	5	6	–	5	101	12	BL	1.8	2.7	1.9	ST	–
	00.9	PRO 2535R2	R2Y	6	6	6	–	104	12	BL	2.3	2.0	1.6	T	1k
		Experimental lines that are being tested/proposed for registration in Canada													
	00.6	LS Eclipse	R2Y	3	3	–	–	101	6	BL	1.5	1.3	2.3	ST	SCN,1k,1C
	0.1	CFS13.3.01 R2	R2Y	4	5	3	–	98	12	BL	1.9	3.0	2.0	ST	1K
	00.7	TH 36007R2Y	R2Y	5	5	–	–	93	6	Bl	2.2	1.7	2.4	S	–
CHECK CHARACTERISTICS															
24-10RY				117	113	118	120	52	41						
					days to maturity			bu/acre	site years						

[1] R2Y Indicates Genuity Roundup Ready 2 Yield™ Soybeans [2] Maturity ratings for 2015 are averaged across Carman, Morris, St. Adolphe
[3] Lodging ratings are averaged across loam (Carman) and clay (St. Adolphe, Morris) soil. [4] Iron Deficiency Chlorosis (IDC) Groupings – *These ratings determined at a separate trial near Winnipeg that is prone to IDC.* ST = Semi-Tolerant T = Tolerant S = Suceptible
[5] Notes Rps1a,1c, 1k, etc. Phytoph. Resist. genes SCN – Soybean Cyst Nematode Resistance Plant Breeders' Rights

YIELD BY LOCATION – ROUNDUP READY SOYBEANS

Manitoba Variety Zone	Variety	2015 Yield: % of 24-10RY							
		Early Sites		Core Sites				Late Sites	
		Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
Short Season Zone	P001T34R	51	75	74	74	76	67	–	–
	P002T04R	66	89	82	85	72	75	–	–
	NSC Moosomin RR2Y	83	84	80	89	85	81	–	–
	22-60RY	78	86	88	80	77	84	–	–
	S0009-M2	95	87	88	87	94	81	–	–
	Pekko R2	101	88	91	87	80	81	–	–
	Bishop R2	99	82	90	82	83	81	–	–
	LS Northwester	70	82	84	79	85	83	–	–
	NSC Reston RR2Y	83	97	94	90	89	88	–	–
	23-11RY	86	93	87	91	83	88	–	–
	Mahony R2	93	89	99	89	94	91	–	–
	S007-Y4	92	98	90	90	96	97	–	–
	Notus R2	115	101	87	91	94	84	–	–
	23-60RY	97	88	95	95	96	90	–	–
	McLeod R2	72	93	85	87	85	81	–	–
	P006T78R	84	92	109	90	100	88	–	–
	PS 0035 NR2	90	86	91	85	86	89	–	–
	PS 0055 R2	92	91	90	93	100	89	–	–
	NSC Anola RR2Y	76	82	84	95	84	87	–	–
	TH 32004R2Y	81	91	97	92	83	89	–	–
	LS 002R24N	85	99	92	90	93	90	–	–
	TH 35002R2Y	87	91	95	94	86	96	–	–
	NSC Gladstone RR2Y	77	88	87	90	94	94	–	–
	Akras R2	98	95	100	94	101	93	–	–
	Experimental lines that are being tested/proposed for registration in Canada								
	NSC Watson RR2Y	84	91	90	84	94	80	–	–
	PR1418113R2	89	80	87	87	92	86	–	–
	AR1215503	102	93	92	88	93	81	–	–
	AR1310870	–	–	94	82	91	85	89	91
Mid Season Zone	24-11RY	109	88	98	87	99	90	–	–
	S00-N6	–	–	96	98	111	88	88	91
	TH 33005R2Y	–	–	78	95	90	98	98	87
	LS 003R24N	–	–	94	87	83	84	85	85
	Chadburn R2	84	91	88	98	95	83	–	–
	Vito R2	85	84	88	87	94	84	–	–
	Lono R2	90	93	98	88	98	96	–	–
	900Y61	97	85	95	91	91	82	–	–
	NSC Tilston RR2Y	86	90	100	89	99	95	–	–
	TH 33003R2Y	94	97	103	88	98	97	–	–
	P008T70R	94	86	74	90	93	84	–	–
	TH 34006R2Y	–	–	100	94	106	90	89	95
	Gray R2	93	101	89	93	101	92	–	–
	24-10RY	100	100	100	100	100	100	100	100
	HS 006RYS24	87	85	94	92	101	84	–	–
	HS 007RY32	–	–	91	97	110	97	82	96
	Hero R2	97	93	109	99	121	92	–	–
	NSC Sanford R2Y	94	101	94	101	90	95	–	–
	P008T22R2	99	90	101	94	101	86	–	–
	LS Maidan			105	97	106	96	88	94
	PRO 2525R2	93	98	106	92	111	87	–	–
	Experimental lines that are being tested/proposed for registration in Canada								
	PR1313806R2	93	85	93	88	90	81	–	–
	AR1210501	–	–	114	97	113	102	108	123
	EXP 00816 R2			91	101	101	97	98	95
Long Season Zone	NSC Arnaud RR2Y	–	–	95	92	103	101	101	97
	NSC Richer RR2Y	–	–	102	91	108	92	97	92
	S00-T9	–	–	101	98	111	96	101	93
	LS 005R22	–	–	87	91	110	90	90	87
	PS 0074 R2	–	–	110	104	128	94	96	91
	25-10RY	–	–	101	91	120	100	106	89
	Currie R2	–	–	97	94	100	96	83	94
	Podaga R2	–	–	89	91	111	89	86	90
	LS 005R24	–	–	102	93	123	101	104	93
	Astro R2	–	–	116	91	112	94	104	92
	LS 008R560	–	–	96	90	94	102	74	92
	PRO 2535R2	–	–	104	98	122	103	93	95
	Experimental lines that are being tested/proposed for registration in Canada								
	LS Eclipse	–	–	111	105	120	96	89	94
	CFS13.3.01 R2	–	–	92	90	105	88	89	84
	TH 36007R2Y	–	–	94	95	108	88	88	92
CHECK CHARACTERISTICS	24-10RY (bu/acre)	48	49	52	51	49	54	75	63
	CV%	14.0	4.9	7.5	3.6	8.2	4.4	9.8	7.5
	LSD%	23	8	12	6	13	7	12	16
	Sign Dif	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Seeding Date	01-Jun	27-May	27-May	25-May	02-Jun	22-May	25-May	25-May
	Harvest Date	29-Sep	29-Sep	29-Sep	23-Sep	21-Oct	29-Sep	30-Sep	22-Sep

CONVENTIONAL SOYBEANS – VARIETY DESCRIPTIONS

Manitoba Variety Zone	Company Maturity Grouping	Variety	Relative Days to Maturity [1] + / - of Check Average	2015	2014	2013	Yield % Check	Site Years Tested	Colour	Relative Seeds/ lb	Lodging [2] Clay	Loam	IDC [3] Rating (1– 5)	Grouping
Short Season Zone	00.4	AAC Edward	-3	-1	-4	-2	106	19	IY	2747	1.3	2.2	1.8	ST
	Experimental lines that are being tested/proposed for registration in Canada													
	00.2	OT13-07	-2	-1	-3	–	100	12	Y	2340	1.9	2.2	–	–
	00.2	OT13-05	-1	-1	-2	–	89	12	Y	2930	1.5	3.0	–	–
Mid – Long Season Zone	00.3	OAC Prudence	0	0	0	0	100	103	Y	2655	2.7	3.5	1.6	T
	00.3	AAC Mandor	3	2	4	3	109	32	Y	2400	1.6	2.0	2.3	ST
	00.5	OAC Morden (SeCan 11-05C)	4	2	5	5	105	26	Y	2313	1.3	2.0	1.9	ST
	Experimental lines that are being tested/proposed for registration in Canada													
	00.2	SVX16T00S1	1	1	–	–	94	6	GR	2600	1.7	1.8	–	–
	00.5	OT13-08	3	4	3	–	103	12	IY	2690	1.4	1.7	–	–
	00.7	OT11-03	5	5	5	5	106	20	Y	2455	1.4	2.8	–	–
	0.1	JARI	7	7	8	–	107	12	IY	2377	2.0	2.7	2.1	ST
	00.9	OT13-04	8	8	9	–	107	12	Y	2750	2.7	3.0	–	–
	0.2	CFS15.2.01 CV	9	9	–	–	103	6	BR	2270	1.3	2.0	–	–
	00.3	SVX16T00S2	5	5	–	–	110	6	IY	2700	1.9	3.3	–	–
CHECK CHARACTERISTICS														
OAC Prudence			112	108	115	114	49	103						
				days to maturity			bu/acre	site years						

[1] Maturity ratings for 2015 are average across Carman, Morris, St. Adolphe.

[2] Lodging ratings are average across loam (Carman) and clay (St. Adolphe, Morris) soil.

[3] Iron Deficiency Chlorosis (IDC) Groupings – *These ratings determined at a separate trial near Winnipeg that is prone to IDC.*

T – Tolerant, ST – Semi-Torerant, S = Suceptible

YIELD BY LOCATION – CONVENTIONAL SOYBEANS

Manitoba Variety Zone	Variety	2015 Yield: % of OAC Prudence Early Sites Beausejour	Stonewall	Core Sites Carman	Morris	Portage	St. Adolphe	Late Sites Morden	Rosebank
Short Season Zone	AAC Edward (OT11-01)	107	112	128	121	100	106	–	–
	Experimental lines that are being tested/proposed for registration in Canada								
	OT13-07	100	97	104	111	98	98	–	–
	OT13-05	85	81	88	98	80	99	–	–
Mid – Long Season Zone	OAC Prudence	100	100	100	100	100	100	100	100
	AAC Mandor	98	108	117	116	107	112	–	–
	OAC Morden (SeCan 11-05C)	–	–	109	116	79	110	110	100
	Experimental lines that are being tested/proposed for registration in Canada								
	SVX16T00S1	92	92	96	105	83	95	–	–
	OT13-08	109	91	106	109	88	104	–	–
	OT11-03	–	–	100	117	97	110	102	97
	JARI	–	–	113	110	98	113	111	98
	OT13-04	–	–	110	121	94	115	113	96
	CFS15.2.01 CV	–	–	92	119	92	114	113	94
	SVX16T00S2	105	102	115	120	103	118	–	–
CHECK CHARACTERISTICS	OAC Prudence (bu/acre)	52	42	56	44	53	41	56	39
	CV%	6.0	5.0	7.6	3.8	9.2	6.3	7.6	8.2
	LSD%	11	9	13	8	16	13	–	–
	Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	Seeding Date	01-Jun	27-May	27-May	25-May	02-Jun	22-May	25-May	25-May
	Harvest Date	29-Sep	02-Oct	29-Sep	23-Sep	16-Oct	29-Sep	30-Sep	22-Sep