



## Pulse Variety Evaluation in 2005

*This insert features the results from MPGA sponsored trials.*

Welcome back. After one year off, the Manitoba Pulse Growers Association (MPGA) is happy to provide this Pulse crop variety research insert from the past seasons' plots around the province. 2005 was a tough year for pulses – not as bad as 2004, but tough nonetheless. In this report you will see data from 1 out of 4 Wide Row edible bean trials that were seeded, 1 out of 6 Narrow Row bean trials, 1 out of 4 Lentil trials and 1 out of 3 Fababeans trials. Success with peas and soybeans was better with usable data from 4 out of 7 pea trials, 6 out of 7 conventional soybeans trials and 6 out of 7 Roundup Ready soybean trials. The culprit in almost all cases was excess water. The variability within the plots this year is not ideal, but that is a reflection of the type of year it was, so take extra caution when interpreting the data.

The evaluation of pulse varieties across five different crop types (peas, lentils, fababeans, edible beans and soybeans) found within this publication is made possible with your continued support through the check-off levy. Financial assistance was also received from the Federal government's Matching Investment Initiatives (MII). The Manitoba Crop Variety Evaluation Team (MCVET) provided the pea data and cost shared the fababeans and lentil data with the MPGA.

### Variety Evaluation Trials – Notes

In the past producers have become used to seeing the Wide Row edible bean data in one of four "summary" tables (Navy, Small non-Navy, Pinto and Large non-Pinto.) This year the data from the Morden site has been divided up into their individual bean types, similar to the way they are listed in Seed Manitoba 2006. Due to excess water, Summary tables from the 2003 report have been reprinted to provide some representative edible bean data from Winkler, Carman and Portage bean production areas.

The soybean tables continue to show multiyear data from locations wherever possible, but they have also been modified to reflect the growth of Roundup Ready soybeans. According to Manitoba Agricultural Services Corporation (the

Crop Insurance portion) Roundup Ready soybean acres grew to 40% of 2005 seeded acres. In order to reflect this trend, the conventional varieties were tested in a separate test from the Roundup Ready varieties for the first time. In hindsight, this may not have been the best course of action as it is now difficult to directly compare varieties between the two tables. Depending upon grower feedback this may be changed back to a combined trial for future years. We have also included soybean data from "non-traditional" sites located in Western Manitoba and Eastern Saskatchewan.

As you review the data in the following tables, there are some things you will need to be aware of when interpreting the data.

In each table, data from the check varieties are in bold type in an effort to make it easier for you to compare other varieties to the check.

As always, we have included the long-term Manitoba average yield as a percentage of the check variety. The check variety will be 100% with the actual yield (in bu/acre or lb/acre) in the footnotes below the table. Also beside the yield of all varieties you will see a number in brackets. The number in brackets represents the number of site-years that went into making up the yield number. The bigger the number the more confident you can be in the yield estimation as the number has been developed over more than 1 or 2 growing seasons.

At the bottom of each table that is displaying 2005 yield data you will see two terms you may not be familiar with – Coefficient of Variation (CV) and Least Significant Difference (LSD). Coefficient of Variation is a measurement that describes the amount of variation found within the trial. While a small %CV is desirable, trials having a CV of less than 20% indicate valid data. After statistics are run on a trial, the LSD for yield is generated.

For the edible bean trials the LSD represents the amount of beans (in lb/acre) that two varieties have to differ before you can say with a 95% chance of certainty that a true difference exists between the two varieties that have been grown in the same trial. For example, the Morden wide row

Pinto bean trial has a LSD of 713 lb/acre; the check variety AC Pintoba has a yield of 3763 lb/acre. This means that varieties having a yield greater than 4476 lb/acre (none) would be significantly higher yielding, while varieties having a yield less than 3050 lb/acre (Ac Ole, Rally, and 4 others) yielded significantly less than the check variety. At the Morden site, the varieties (Maverick, PT 99195MR, PT 99236, EXP08520645, 8530762) have statistically similar yields to AC Pintoba.

For all other trials, the LSD is a % – not bu/acre. For the conventional soybean trial, St. Adolphe site, the check variety OAC Prudence yielded 39 bu/acre and the LSD% is 8.3%. This means that a variety has to differ by more than 3% at the St. Adolphe site before they can be considered to yield differently. OAC Prudence is 100 so it would have the same yield potential as Accord (99%) but yielded significantly more than Gentleman (94).

Remember, the best way to determine the suitability of a variety is to see it in as many different settings and even years as possible. It is good to use industry information sites promoting certain varieties, but make sure you balance this information off against the MPGA sponsored variety plots scattered around the province. Plan to visit these sites in late August or early September may well be the best time you invest in your farm operation next year. Even with all this work, it may still be prudent to grow the new variety in a field away from a main road in case it doesn't perform as well as predicted.

We would like to acknowledge Ferdinand Kiehn and Parthiba Balasubramanian Agriculture and Agri-Food Canada, Morden Research Station, for conducting the Wide Row Screening Trials and the contractors that plant, monitor and harvest the plots. Thanks also to MPGA directors Bruce Brolley, Business Development Specialist – Pulses, Manitoba Agriculture, Food and Rural Initiatives, and Dennis Lange, Parent Seed Farms, for compiling the data for this publication. ■

## LENTILS

Market Class	Variety	Long Term		Yield by Test Location <sup>2</sup>		Resistance to <sup>4</sup>		Cotyledon <sup>5</sup> Colour
		Manitoba Yield <sup>1</sup> % of Laird	( )*	% of Laird Roblin	Maturity <sup>3</sup> Rating	Ascochyta Blight	Anthracnose Race <sup>1</sup>	
Small Red	CDC Blaze	88	(11)*	68	Early	G	P	Red
	CDC Redberry	108	(4)	75	Early Medium	G	G	Red
	CDC Robin	109	(13)	89	Early	G	G	Red
	CDC Rouleau	70	(1)	70	Medium	G	G	Red
	Crimson	85	(11)	57	Early	VP	VP	Red
Small Green	CDC Milestone	95	(13)	55	Early	G	VP	Yellow
	CDC Viceroy	105	(6)	93	Early	G	G	Yellow
	Eston	131	(36)	52	Early	VP	VP	Yellow
Medium green	CDC Meteor	108	(6)	93	Medium	G	P	Yellow
	CDC Richlea	125	(20)	103	Medium	VP	VP	Yellow
	CDC Vantage	106	(13)	90	Medium	G	VP	Yellow
Large green	Laird	100	(36)	100	Very Late	VP	VP	Yellow
	CDC Glamis	106	(13)	108	Very Late	G	VP	Yellow
	CDC Grandora	91	(13)	70	Very Late	G	VP	Yellow
	CDC Plato	115	(10)	103	Medium Late	G	P	Yellow
	CDC Sovereign	105	(13)	100	Late	G	P	Yellow
	CDC Sedley	98	(11)	79	Medium	F	VP	Yellow
French Green	CDC LeMay	96	(10)	75	Early	F	VP	Yellow
<b>Varieties that are being tested or proposed for registration</b>								
Large Green	1196D-5	90	(1)	90	n/a	n/a	n/a	
Medium Green	1294M-23	99	(1)	99	n/a	n/a	n/a	
Small Red	1194-3	85	(1)	85	n/a	n/a	n/a	
Small Red	1125-1-5	51	(1)	51	n/a	n/a	n/a	
<b>Clearfield Tolerant Lines</b>								
Small Red	2462	64	(1)	64	n/a	n/a	n/a	
Small Red	2464	85	(1)	85	n/a	n/a	n/a	
Yield of Laird (lb/acre)				2500				
CV%				13				
LSD%				17				

<sup>1</sup> Long Term Average is best indicator of variety performance. Laird yielded 1385 lb/acre (1551 kg/ha).

<sup>2</sup> Use single site-year data with caution.

<sup>3</sup> Maturity ratings conducted under Saskatchewan conditions.

<sup>4</sup> Disease resistance ratings determined under Saskatchewan conditions - VG=very good, G=good, F=fair, P=poor, VP=very poor.

<sup>5</sup> Colour when seed cut in half.

n/a = data not available

\* Number in brackets is actual number of site-years in direct comparison to the check Laird, the more site-years the more dependable the data.

## SOYBEAN IN NON-TRADITIONAL AREAS TEST

Manitoba <sup>1</sup> Variety Grouping	Company <sup>2</sup> Heat Unit	Variety	2005 Yield in bu/acre by Test Location <sup>3</sup>					
			Dryland				Irrigated	
			Thunder Bay	Brandon	Redvers	Outlook	Outlook 1	Outlook 2
early <sup>4</sup>	2350	90A01	38	40	8	50	39	34
early	2350	OAC Vision	40	37	12	43	36	34
early	2400	DKB005-51	37	26	5	44	24	11
mid	2450	OAC Prudence	37	34	12	50	16	6
mid	2450	90A07	44	30	14	48	18	8
late	2525	90B11	39	34	8	40	8	4
		CV%	7	9	16	4	11	13
		LSD (bu/acre)	5	6	3	3	5	4

<sup>1</sup> Manitoba Variety Grouping is a way of grouping varieties of similar maturities together. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety.

<sup>2</sup> Company Heat Unit is assigned by the company and not always reflected the variety's actual maturity in Manitoba.

<sup>3</sup> Long Term Average Yield is the best indicator of variety performance. Use single site-year data with caution.

<sup>4</sup> Days to Maturity is the best way to determine the suitability of a variety to your area. The DTM for 90A01 in the dryland locations of Thunder Bay was 111, Outlook 102 and Redvers 106. At the Irrigated sites the DTM for 90A01 were longer – Outlook 1, 117 and at Outlook 2, 90A01 did not mature. For more details go to [www.manitobapulse.ca](http://www.manitobapulse.ca) then go to Production link then Variety Performance and Seed Source.

## CONVENTIONAL SOYBEANS

Manitoba <sup>1</sup>		Days to Maturity <sup>3</sup>			Morden <sup>4</sup>			Homewood			St. Adolphe			1 Year Data Only		
Variety Grouping	Company <sup>2</sup> Heat Unit	Variety	2005	2003	2002	2005	2005- 2003	2005- 2002	2005	2005- 2003	2005- 2002	2005	2005- 2003	2005- 2002	Rosebank 2005	Arborg 2005
	2350	GAILLARD	103	109	114	91	92	93	89	93	95	91	90	98	94	79
	2350	OAC Vision	103	110	115	54	70	75	80	89	90	86	99	98	100	80
	2375	90A01	103	111	117	90	90	95	99	102	101	95	97	108	94	90
<b>Experimental lines that are being tested/proposed for registration in Canada</b>																
short season area		GS1001	102	-	-	67	-	-	84	-	-	85	-	-	94	80
		PR532622	104	-	-	88	-	-	102	-	-	88	-	-	93	-
		Jutro	100	108	112	94	82	82	65	67	70	72	80	91	70	52
		Secan 04-02	107	-	-	89	-	-	86	-	-	93	-	-	89	89
		OAC 02-02	108	-	-	73	-	-	94	-	-	90	-	-	88	-
		OAC 01-12	109	-	-	95	-	-	117	-	-	105	-	-	106	-
		XB-1	109	-	-	119	-	-	104	-	-	90	-	-	100	94
	CL987704	111	-	-	69	-	-	104	-	-	84	-	-	105	-	
mid season area	2400	Gentleman	107	113	119	118	103	99	99	105	101	94	97	101	106	99
	2450	Accord	108	117	123	98	99	100	107	113	109	99	103	113	103	-
	2450	OAC Prudence	110	117	123	100	100	100	100	100	100	100	100	100	100	100
	2450	Jim	111	117	123	86	92	91	100	105	109	93	107	103	107	-
	2450	90A07	112	116	123	89	96	102	114	112	110	102	100	101	113	-
	2500	Pembina	117	119	-	93	98	-	103	111	-	93	104	-	111	111
	2500	AC Orford	120	118	122	109	106	107	107	115	107	88	100	113	93	-
<b>Experimental lines that are being tested/proposed for registration in Canada</b>																
		S00-Z1	111	114	118	103	105	108	112	118	114	97	107	105	108	-
		SeCan 02-05	115	119	-	89	-	-	121	-	-	108	-	-	105	114
		OAC 03-07	118	-	-	81	-	-	93	-	-	83	-	-	104	-
long season area	2500	AC Proteina	118	119	124	110	99	98	116	116	106	75	88	83	105	83
	2500	Dolly	116	120	126	96	94	95	107	109	101	93	97	98	110	104
	2575	Emerson	119	121	126	170	134	127	135	130	119	116	120	102	127	-
	2550	Lotus	120	-	-	100	-	-	103	-	-	79	-	-	101	-
	2550	Kamichis	122	-	-	97	-	-	110	-	-	86	-	-	113	-
	2600	Albinos	115	123	130	116	109	102	99	108	99	88	98	92	82	-
	2550	OAC Erin	115	124	131	100	102	107	131	139	127	103	118	94	133	-
<b>Experimental lines that are being tested/proposed for registration in Canada</b>																
		SeCan 01-02	120	122	-	90	99	-	118	124	-	102	116	-	118	-
		OAC 04-06	124	-	-	132	-	-	117	-	-	94	-	-	-	-
		OAC 01-13	124	-	-	94	-	-	125	-	-	97	-	-	-	-
		Secan 01-09	126	-	-	151	131	-	140	134	-	109	117	-	107	-
	CHECK	OAC Prudence <sup>5</sup> (bu/acre)				34	50	52	54	44	49	39	43	39	53	42
		CV%				16.1			7.9			5.4			9.2	5.1
		LSD%				23.1			13.7			8.3			15.8	7.5

<sup>1</sup> Manitoba Variety Grouping is a way of grouping varieties of similar maturities together using a combination of Heat Units and Days to Maturity. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety. In general, higher Heat Unit Groupings require more heat/days to mature the variety. Varieties within each grouping are ranked from earliest to latest.

<sup>2</sup> Each company assigns a Heat Unit (HU) rating to each of their varieties that describes the maturity of their variety across Canada. Experience has shown that company-assigned Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.

<sup>3</sup> Days to Maturity (DTM) are an important criteria when evaluating the relative maturity of a soybean variety. Days to Maturity is the number of days from seeding to maturity (95% of the pods on the plant have achieved their mature colour (brown or grey) and seeds rattle in the pod when shaken. Due to different weather conditions each year, the actual number of days it takes a variety to fully mature varies from year to year, but the relative ranking is important when selecting a variety for your farm. Choosing a variety that needs a longer growing season than your farm has, increases your risk of frost damage and lower returns.

<sup>4</sup> Yield data from Morden, Homewood and St. Adolphe are presented in 1, 2 and 3 year rolling averages wherever possible. No yield data was collected in 2004.

<sup>5</sup> Long Term Yield of OAC Prudence is 50 bu/acre (3370 kg/ha) over 34 site-years of data. No yield data was collected in 2004.

## ROUNDUP READY SOYBEANS

Manitoba <sup>1</sup>		Morden <sup>4</sup>						Winnipeg		1 Year Data Only			
Variety	Company <sup>2</sup>	Days to Maturity <sup>3</sup>			1 yr avg	2 yr avg	1 yr avg	2 yr avg	Rosebank	Arborg	Portage		
Grouping	Heat Unit	Variety	2005	2003	2002	2005	05/03	2005	05/03	2005	2005	2005	
short season area	2400	DKB005-51	104	113	119	65	70	77	80	61	77	89	
	2450	Apollo RR	107	114	-	69	79	93	91	88	-	-	
	2450	RR Rosco	108	116	-	92	94	94	98	86	-	-	
	2400	230RR	109	115	-	81	81	90	89	88	89	102	
	2375	DrakoRR	111	-	-	86	-	94	-	88	100	90	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
			CFS802RR	109	-	-	93	-	77	-	114	111	113
			Stellar	109	-	-	93	-	96	-	103	110	104
			OT 02-07 RR	111	-	-	100	-	89	-	97	115	104
			T0402 RR	111	-	-	120	-	102	-	107	-	-
mid season area	2425	PS 26 RR	111	116	-	76	82	88	92	82	-	-	
	2500	RR Regis	114	120	-	109	113	97	98	106	113	113	
	2500	25-02R	117	120	-	100	100	100	100	100	100	100	
	2550	25-03R	118	-	-	107	-	100	-	106	-	-	
	2550	Odyssey	118	-	-	107	102	98	100	99	-	-	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
			CFS703RR	114	-	-	93	-	98	-	94	105	100
			T0401 RR	114	-	-	104	-	101	-	108	-	-
			PRO 2590R	116	-	-	119	-	98	-	99	-	-
			X0036RR	116	-	-	92	-	104	-	110	119	113
			NSC 2002 RR	117	-	-	111	-	96	-	87	-	-
			X6005RR	117	-	-	120	-	107	-	101	117	117
			X0045RR	118	-	-	106	-	104	-	108	114	114
		NSC 2012 RR	119	-	-	76	-	91	-	92	-	-	
		PH0502	119	-	-	111	-	106	-	118	-	-	
		X6006RR	119	-	-	129	-	103	-	109	113	124	
long season area	2475	23005RR	122	-	-	111	-	95	-	96	103	106	
	2475	OlexRR	123	-	-	117	-	99	-	105	127	112	
	2600	WHR247	123	-	-	94	-	89	-	95	-	-	
	2525	90B11	122	125	131	105	97	78	93	94	-	-	
	2600	RR Regency	127	127	-	129	113	94	96	106	-	-	
	2600	LS 00854RR	127	-	-	110	-	101	-	104	-	-	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
			X0065RR	120	-	-	115	-	105	-	115	125	133
			NSC 2011 RR	120	-	-	112	-	99	-	103	108	117
			NSC 2005 RR	121	-	-	89	-	97	-	95	-	-
		X6009RR	121	-	-	133	-	108	-	120	-	-	
		NSC 2007 RR	121	-	-	113	-	101	-	101	112	110	
		OT 03-08 RR	128	-	-	119	-	104	-	107	118	102	
	CHECK	25-02R <sup>5</sup> (bu/acre)				48	56	39	44	53	42	59	
		CV%				14.2		5.1		8.4	7.0	6.9	
		LSD%				23.8		8.0		3.6	12.5	12.5	

<sup>1</sup> Manitoba Variety Grouping is a way of grouping varieties of similar maturities together using a combination of Heat Units and Days to Maturity. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety. In general, higher Heat Unit Groupings require more heat/days to mature the variety. Varieties within each Grouping are ranked from earliest to latest.

<sup>2</sup> Each company assigns a Heat Unit (HU) rating to each of their varieties that describes the maturity of their variety across Canada. Experience has shown that Company assigned Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.

<sup>3</sup> Days to Maturity (DTM) are an important criteria when evaluating the relative maturity of a soybean variety. Days to Maturity is the number of days from seeding to maturity (95% of the pods on the plant have achieved their mature colour (brown or grey) and seeds rattle in the pod when shaken. Due to different weather conditions each year, the actual number of days it takes a variety to fully mature varies from year to year, but the relative ranking is important when selecting a variety for your farm. Choosing a variety that needs a longer growing season than your farm has, increases your risk of frost damage and lower returns.

<sup>4</sup> Yield data from Morden and St Adolphe are presented in 1 and 2 year rolling averages wherever possible. No data was collected in 2004.

<sup>5</sup> Long Term Yield of 25-02R is 49 bu/acre (3312 kg/ha) over 13 site-years of data. No yield data was collected in 2004.

## NATTO SOYBEANS

Variety <sup>1</sup> Grouping	Company <sup>2</sup> Heat Unit      Variety		Days to Maturity <sup>3</sup> 2005      2003		Yield Index <sup>4</sup> % OAC Prudence		2005 Yield Data by Test Location <sup>5</sup>					Lodging <sup>6</sup>
							Morden	Rosebank	Homewood	St. Adolphe	Arborg	
mid season	2500	OAC Prudence*	111	115	100	(12)**	100	100	100	100	100	1
	2550	Pronatto	116	–	99	(4)	94	113	105	81	–	2
	2550	AC Colibri	120	126	81	(8)	58	72	72	55	–	2
<b>Lines that are being tested/proposed for registration in Canada</b>												
short season		OT03-10	102	108	77	(12)	65	88	75	77	59	1
		OT03-12	103	110	77	(12)	65	84	64	72	61	1
2005 OAC Prudence average yield (bu/acre)							55	52	55	39	42	
CV%							8	9	5	7	5	
LSD%							11	15	8	10	8	

<sup>1</sup> Manitoba Variety Grouping is a way of grouping varieties of similar maturities together. Heat Units are a relative measurement used to describe where a variety should be grown as determined by the amount of heat required to mature the variety.

<sup>2</sup> Company Heat Unit is assigned by the company and not always reflected the variety's actual maturity in Manitoba.

<sup>3</sup> Days to Maturity is the best way to determine the suitability of a variety to your area.

<sup>4</sup> Long Term Yield of OAC Prudence is 47 bu/acre (3171 kg/ha) over 12 station years. No yield data was collected in 2004.

<sup>5</sup> Long Term Average Yield is the best indicator of variety performance. Use single site-year data with caution.

<sup>6</sup> 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.

\* 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.

\*\* The number in brackets is the number of site-years in comparison to OAC Prudence. The more site years the more dependable the data.

## 2005 NARROW ROW BEAN SCREENING TRIAL – Treherne location only for 2005

Entry	Variety	Yield (lbs/acre)	Plant Ht (cm)	Lodging (1-5)	Days to Maturity	% Pod Clearance	1000K Wt (g)	Blight (0-5)	Blight (%)	Rust %	Anthra %	W Mould (%)
Navy	Envoy	1552	33	1	106	68	196	4	27	0	0	1
Navy	T2003	1169	42	1	103	63	182	3	22	0	0	1
Navy	T9808	1233	40	1	109	57	194	3	30	0	0	0
Navy	T9903	1664	48	1	111	72	221	3	13	0	0	1
Navy	Cirrus (T9803)	1534	45	1	103	63	190	3	15	0	0	1
Navy	AC Cruiser	1605	42	1	110	65	200	3	13	0	0	0
Navy	Kippen (HR100)	1712	43	1	105	60	182	3	28	0	0	1
Black	AC Black Diamond	1998	45	1	103	62	293	3	17	0	0	0
Black	CDC Espresso	965	28	1	104	65	202	4	33	0	0	0
Black	CDC Jet	1665	40	1	108	65	207	3	20	0	0	0
Black	CDC Rio	1392	35	1	103	68	212	3	28	0	0	1
Pinto	CDC Minto	1660	55	1	100	70	454	3	17	0	0	4
Pinto	CDC Pintium	1259	38	1	90	63	342	3	30	0	0	0
Pinto	SC11745-3	1297	32	1	94	65	384	3	20	0	0	1
SMRED	AC Redbond	1471	48	1	99	58	320	3	18	0	0	0

Refer to 2003 summary on page 10 for complete information regarding narrow row production.

**2005 FIELD BEAN SCREENING TRIAL – Morden location only for 2005**

<b>PINTO BEANS</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
AC Pintoba	102	3	110	85	416	3	15	30	2	1	3763
AC Ole	82	3	105	80	416	3	18	30	2	0	3430
Maverick	90	3	108	77	433	2	12	10	13	0	4135
Rally	85	3	107	83	414	3	9	2	10	2	3537
Topaz R	87	3	99	68	424	4	23	1	0	0	3248
HR 119	72	1	106	82	411	3	17	16	13	0	3334
PT 99195MR	92	3	113	90	365	3	20	2	30	0	3995
PT 99236	93	1	111	93	390	3	12	21	13	0	4090
ROG207	97	3	102	78	441	3	13	13	7	0	3207
8520645	87	3	112	85	433	3	15	23	7	0	3961
8530762	92	2	109	80	404	2	6	22	7	0	3603
0813	70	2	103	82	402	3	18	18	2	0	3442

**Yellow Beans**

Arikara Yellow	43	1	105	83	420	4	20	0	0	0	2699
										Mean	3572
										CV%	12%
										LSD	713

<b>GREAT NORTHERN</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>Matterhorn</b>	<b>72</b>	<b>1</b>	<b>106</b>	<b>87</b>	<b>327</b>	<b>3</b>	<b>25</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>3623</b>
GN 99131	72	2	104	70	333	3	22	15	2	0	2559
ROG591	82	3	105	68	372	4	27	17	10	0	3034
AC Alert	95	1	109	88	411	3	12	17	5	0	3239
Resolute	88	2	104	87	400	3	17	3	3	0	3243
										Mean	3139
										CV%	14%
										LSD	766

<b>LIGHT RED KIDNEY</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>Foxfire</b>	<b>50</b>	<b>1</b>	<b>102</b>	<b>88</b>	<b>488</b>	<b>4</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2136</b>
Pink Panther	52	1	109	83	486	4	24	0	0	0	2150
ROG773	47	1	109	77	520	4	28	0	0	0	1762
										Mean	2016
										CV%	13%
										LSD	704

<b>DARK RED KIDNEY</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>ROG802</b>	<b>47</b>	<b>1</b>	<b>108</b>	<b>83</b>	<b>548</b>	<b>4</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1498</b>
Redhawk	43	1	108	78	492	4	23	0	0	0	1113
ROG847	33	1	109	65	467	4	33	0	0	0	654
										Mean	1087
										CV%	15%
										LSD	376

**2005 FIELD BEAN SCREENING TRIAL – Morden location only for 2005**

<b>NAVY BEANS</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>Envoy</b>	<b>50</b>	<b>1</b>	<b>107</b>	<b>92</b>	<b>195</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2892</b>
AC Cruiser	83	1	123	88	205	1	1	8	3	0	2045
AC Mast	82	2	123	85	205	3	12	8	0	0	3022
Cargo	53	2	118	87	208	3	18	0	12	0	3321
Cirrus	77	2	119	80	197	2	7	10	5	0	3421
Frigate	78	1	121	87	208	2	6	18	17	0	2901
Galley (HR 110)	73	1	120	87	212	3	4	13	8	0	3069
Kippen (HR 100)	78	1	112	93	189	1	6	10	22	0	3360
Morden003	50	1	106	83	211	2	6	0	0	0	2537
Norstar	70	2	109	87	186	3	18	12	3	0	3043
Regent	92	2	121	87	207	1	5	13	20	0	2537
GTS 544	67	1	111	88	185	2	6	2	8	0	2564
GTS 531	68	1	116	83	201	2	5	0	2	0	2670
HR 135	70	1	117	92	209	2	6	0	2	0	2896
HR 81-5	65	1	117	87	189	2	8	10	0	0	3409
NA 99081	73	1	119	88	193	3	6	14	0	0	3022
ROG417	63	1	108	90	212	2	8	23	3	0	2933
T2003	88	2	114	80	195	3	12	33	22	0	3581
T9808	65	1	118	87	211	4	9	0	10	0	3104
T9903	63	1	109	83	227	1	2	0	10	0	2950
O3yt11	83	1	121	92	201	2	4	0	4	0	2796
0811	68	1	119	85	207	2	13	18	13	0	3179
85900510	88	1	120	95	188	1	4	10	5	0	3364
										Mean	2983
										CV%	14%
										LSD	694

<b>BLACK BEANS</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>AC Harblack</b>	<b>72</b>	<b>2</b>	<b>120</b>	<b>78</b>	<b>188</b>	<b>1</b>	<b>5</b>	<b>17</b>	<b>22</b>	<b>0</b>	<b>3714</b>
0814	75	1	121	85	224	2	5	6	7	0	3426
BL 00044	78	1	121	85	204	1	3	0	6	0	3307
Black Knight	68	1	122	92	205	2	3	15	5	0	2551
Black Violet	70	1	121	90	216	9	4	1	27	0	3062
CDC Jet	65	2	113	88	215	1	12	0	8	0	3406
CDC Rio	75	2	107	87	210	1	11	0	18	0	3252
Eclipse	72	1	113	92	226	2	4	2	20	0	3671
HR 123	73	1	120	93	220	1	3	10	17	0	3834
Onyx	65	1	121	92	198	3	4	0	7	0	3413
T-39	83	2	121	82	214	3	6	3	8	0	3460
										Mean	3372
										CV%	11%
										LSD	641

<b>SMALL REDS</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>AC Earlired</b>	<b>55</b>	<b>2</b>	<b>103</b>	<b>77</b>	<b>385</b>	<b>3</b>	<b>25</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>2978</b>
AC Redbond	75	1	105	83	368	4	27	9	10	0	3651
AC Scarlet	75	3	110	87	406	3	19	12	22	0	4864
										Mean	3372
										CV%	11%
										LSD	641

<b>PINK BEANS</b>	Plant Ht	Lodging	Days to	% Pod	1000K	Bblight	Bblight	Anthra	W Mould	Rust	Yield
Entry	(cm)	(1-5)	Maturity	Clearance	Wt (g)	(0-5)	(%)	%	(%)	(%)	(lbs/acre)
<b>ROG312</b>	<b>72</b>	<b>3</b>	<b>107</b>	<b>77</b>	<b>355</b>	<b>3</b>	<b>23</b>	<b>13</b>	<b>3</b>	<b>0</b>	<b>3649</b>
CDC Rosalee	72	2	106	78	300	4	28	26	3	0	3058
Early Rose	65	2	97	80	361	3	22	3	3	0	2714
Pink Floyd	87	3	109	75	364	3	28	13	10	0	3742
										Mean	3290
										CV%	13%
										LSD	865

# 2003 Summary for Wide Row Bean

## 2003 SUMMARY – PINTO

ENTRY	Yield (lb/acre)			Days to Maturity			Plant Type (1-9)			% Pod Ht > 5cm			% Rust		% White Mould	
	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003	2003-2002
<b>AC Pintoba</b>	<b>3120</b>	<b>2830</b>	<b>2941</b>	<b>95</b>	<b>102</b>	<b>103</b>	<b>6.9</b>	<b>7.3</b>	<b>7.2</b>	<b>71</b>	<b>63</b>	<b>65</b>	<b>4</b>	<b>6</b>	<b>6</b>	<b>17</b>
CDC Minto	2620	2536	2470	96	100	101	5.8	6.9	7.2	73	60	60	5	9	5	24
GTS900	3081	2728	2863	96	101	102	6.7	7.1	6.9	67	60	64	5	7	7	23
Topaz	2679	2431	-	86	91	-	5.4	6.7	-	72	61	-	3	5	5	27
O2YT145	3176	-	-	93	-	-	6.1	-	-	73	-	-	0	-	6	-
EX08520645	3079	2907	-	98	102	-	6.3	6.4	-	65	55	-	0	0	4	18
Rally	3109	-	-	95	-	-	7.1	-	-	73	-	1	-	-	3	-
SC111745-3*	2557	-	-	88	-	-	5.0	-	-	76	-	-	0	-	15	-
Average	2928	2686	2758	93	99	102	6	7	7	71	60	63				

\* only grown at Winkler and Portage due to shortage of seed

## 2003 SUMMARY – LARGE NON-PINTO

ENTRY	Yield (lb/acre)			Days to Maturity			Plant Type (1-9)			% Pod Ht > 5cm			% Rust		% White Mould	
	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2000-2001	2003	2003-2002	2003	2003-2002
<b>Light Red Kidney</b>																
<b>Foxfire</b>	<b>2561</b>	<b>2202</b>	<b>2269</b>	<b>89</b>	<b>95</b>	<b>96</b>	<b>1.0</b>	<b>1.2</b>	<b>1.6</b>	<b>89</b>	<b>72</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>15</b>
EX08590462	2535	2396	2418	96	102	103	1.3	1.6	2.0	96	77	76	0	0	1	2
<b>Dark Red Kidney</b>																
<b>ROG 802</b>	<b>2099</b>	<b>1989</b>	<b>2060</b>	<b>95</b>	<b>103</b>	<b>103</b>	<b>1.2</b>	<b>1.7</b>	<b>2.0</b>	<b>95</b>	<b>75</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>7</b>
Redhawk	1351	1363	1559	95	102	103	1.1	1.6	2.0	95	72	74	0	0	1	2
Cabernet	1833	-	-	96	-	-	1.1	-	-	96	-	-	0	-	3	-
<b>White Kidney</b>																
<b>GTS401</b>	<b>2713</b>	<b>-</b>	<b>-</b>	<b>99</b>	<b>-</b>	<b>-</b>	<b>1.2</b>	<b>-</b>	<b>-</b>	<b>99</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>
WK 380	713	1034	-	89	98	-	1.0	1.3	-	89	75	-	0	0	2	3
<b>Great Northern Bean</b>																
<b>Beryl</b>	<b>2648</b>	<b>2519</b>	<b>2539</b>	<b>94</b>	<b>99</b>	<b>100</b>	<b>5.1</b>	<b>6.3</b>	<b>6.7</b>	<b>94</b>	<b>59</b>	<b>57</b>	<b>0</b>	<b>3</b>	<b>10</b>	<b>25</b>
AC Polaris	2612	2513	2630	94	100	100	4.8	5.3	5.8	94	71	70	1	7	8	25
Alert	2919	2725	2813	94	100	100	4.3	4.6	4.9	94	77	78	1	4	9	18
Matterhorn	3131	2889	-	94	99	-	4.3	4.9	-	94	77	-	0	0	10	22
<b>Cranberry</b>																
<b>Cran 09</b>	<b>2299</b>	<b>2235</b>	<b>2487</b>	<b>92</b>	<b>97</b>	<b>99</b>	<b>1.5</b>	<b>1.7</b>	<b>2.1</b>	<b>92</b>	<b>71</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>9</b>
ROG 912	2557	2275	2513	97	104	105	1.6	1.8	2.3	97	72	72	0	0	3	5
Hooter	2858	2526	2663	100	107	110	1.3	1.7	1.1	100	77	51	0	0	4	11
Average	2345	2222	2395	94	101	102	2.2	2.8	3.1	94	73	70				

### KEY (applicable to all edible bean charts)

Plant Type – (1-9)	1 = upright / bush type, 9 = vine type	Seed Quality – (1-5)	1 = very good (based on colour/wrinkle free/uniform size), 5 = very poor
Lodging – (1-5)	1 = upright, 5 = flat on the ground (rated at maturity)	% Rust	% of plants displaying rust symptoms
% Pod >5cm	Percent of pods above 5cm from the ground	% Mould	% plants with white mould on plant/pod
1000 K wt	Estimation of seed size, larger the number the larger the bean		

### 2003 SUMMARY – NAVY

ENTRY	Yield (lb/acre)			Days to Maturity			Plant Type (1-9)			% Pod Ht > 5cm			% Rust		% White Mould	
	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003	2003-2002
<b>Envoy</b>	<b>2287</b>	<b>2156</b>	<b>2202</b>	<b>91</b>	<b>100</b>	<b>101</b>	<b>1.4</b>	<b>1.9</b>	<b>2.2</b>	<b>84</b>	<b>75</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>18</b>
AC Cruiser	2903	2993	3044	96	102	103	3.9	4.0	4.2	87	84	83	0	0	2	8
AC Mast	2849	2760	–	95	103	–	4.1	4.4	–	81	78	–	0	0	2	7
Cargo	2080	2295	2321	92	99	101	1.4	2.1	2.4	82	77	77	0	0	9	15
CDC White Cap	2785	2796	2760	95	101	102	4.9	5.6	5.9	87	81	80	0	0	9	22
Cirrus	2695	2767	2737	92	99	100	4.5	4.9	5.0	79	72	72	0	0	7	17
ENSIGN	2864	2797	2782	94	102	102	2.9	3.6	3.7	81	73	73	0	0	5	17
Morden 003	2488	–	–	89	–	–	1.0	–	–	85	–	–	0	–	6	–
Navigator	2666	2760	2826	97	104	105	2.6	3.2	3.6	89	86	88	0	0	1	4
Regent	2832	2653	2855	93	101	103	4.4	4.6	4.8	85	78	78	0	0	3	14
GTS 531	2779	2763	–	97	104	–	4.3	4.7	–	79	73	–	0	0	3	9
HR100	2883	–	–	93	–	–	2.4	–	–	88	–	–	0	–	5	–
ROG 361	2494	2379	2383	95	101	101	3.6	3.9	4.3	85	78	76	0	1	10	19
T2001	2271	–	–	91	–	–	1.8	–	–	83	–	–	0	–	5	–
T2003	3077	–	–	95	–	–	4.3	–	–	83	–	–	1	–	6	–
T9601	2945	2848	2742	92	99	99	2.4	2.8	2.8	85	76	78	0	2	14	23
T9808	2324	–	–	92	–	–	3.2	–	–	86	–	–	0	–	7	–
T9903	2953	2787	–	94	100	–	4.3	4.7	–	85	80	–	0	–	9	18
Average	2676	2673	2665	94	101	102	3.2	3.9	3.9	84	78	78				

### 2003 SUMMARY – SMALL NON-NAVY

ENTRY	Yield (lb/acre)			Days to Maturity			Plant Type (1-9)			% Pod Ht > 5cm			% Rust		% White Mould	
	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003	2003-2002
<b>PINK</b>																
<b>Viva</b>	<b>2445</b>	<b>2174</b>	<b>2245</b>	<b>93</b>	<b>68</b>	<b>105</b>	<b>6.3</b>	<b>7.1</b>	<b>7.3</b>	<b>66</b>	<b>55</b>	<b>51</b>	<b>2</b>	<b>7</b>	<b>7</b>	<b>16</b>
Early Rose	2227	–	–	86	–	–	2.5	–	–	72	–	–	2	–	10	–
95-34-6PK	2590	2314	2425	94	67	101	6.8	7.0	7.3	60	49	49	5	8	9	17
GTS1302	2385	2231	–	96	71	–	5.5	6.5	–	64	55	–	4	6	4	11
ROG312	2574	2613	2571	91	65	98	5.4	5.9	6.5	63	51	52	4	5	8	13
<b>RED</b>																
<b>AC Earlired</b>	<b>2181</b>	<b>2316</b>	<b>2398</b>	<b>86</b>	<b>61</b>	<b>93</b>	<b>2.1</b>	<b>3.3</b>	<b>4.7</b>	<b>68</b>	<b>56</b>	<b>58</b>	<b>4</b>	<b>6</b>	<b>9</b>	<b>19</b>
AC Scarlet	2477	2503	2611	93	66	101	4.1	5.0	5.6	73	65	64	1	2	7	15
Cajun	2136	1962	2195	91	66	101	4.8	5.6	6.2	85	67	65	4	5	9	17
<b>BLACK</b>																
<b>AC Harblack</b>	<b>2764</b>	<b>2596</b>	<b>2610</b>	<b>94</b>	<b>68</b>	<b>103</b>	<b>2.0</b>	<b>3.2</b>	<b>3.6</b>	<b>87</b>	<b>80</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>14</b>
AC Black Diamond	2437	2539	2572	92	65	99	1.9	3.1	3.3	81	75	77	0	0	6	8
Black Violet	2817	–	–	98	–	–	1.3	–	–	90	–	–	0	–	2	–
CDC Jet	2375	2177	2348	94	67	101	1.8	2.3	2.6	91	84	85	0	0	3	7
SVR 08520643	2711	2647	–	98	70	–	1.3	2.3	–	90	85	57	0	0	2	13
<b>FLOR DE MAYO</b>																
CDC 180-5F	2417	2229	–	97	70	–	7.4	7.8	–	66	50	–	1	1	5	15
Average	2467	2358	2442	93	67	100	3.8	4.9	5.2	75	64	64				

# 2003 Narrow Row Bean Screening Trials

## YIELD AND SEED SIZE BY INDIVIDUAL SITES

Yield Sorted by Location and Averaged over 1, 2 and 3 Years

Type	Variety	Treherne			Arborg			Boissevain			Thornhill		
		2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2003-2002	2003-2001	2003	2001	2003 & 2001
Navy	CDC Whitecap	1660	2053	2164	1679	2316	2465	2124	2170	2184	1823	2123	1973
Navy	Cirrus	1300	1852	-	1490	2132	-	2848	2688	-	2097	-	-
Navy	AC Cruiser	1676	2243	-	1454	2389	-	3162	2829	-	2049	-	-
Navy	T9601	1652	2216	-	1736	2534	-	1938	2094	-	2165	-	-
Navy	Envoy	1364	1686	1819	1824	2359	2281	2732	2367	2458	1577	1661	1619
Navy	Morden 003	1685	-	-	1693	-	-	2353	-	-	2623	-	-
Black	CDC Espresso	1430	1327	1499	1285	1917	1864	2100	2034	1970	1259	1939	1599
Black	CDC Jet	1490	1748	1883	1800	2659	2580	2581	2370	2263	1939	2245	2092
Black	316-13	1516	-	-	1692	-	-	2539	-	-	1859	-	-
SM Red	AC Redbond	1707	1865	1982	1242	1885	2180	1636	1954	1851	1842	1856	1849
Pinto	CDC Pintium	2289	2021	2023	2071	2489	2493	2670	2590	2486	2501	1978	2239
Pinto	HR99	1530	1794	1898	1425	2095	2296	4040	3435	2930	1949	2051	2000
Pinto	CDC Minto	1775	2055	-	1447	2174	-	3510	3066	-	1895	-	-
Pinto	SC 11745-3	1782	-	-	1753	-	-	2907	-	-	2067	-	-
GNB	CDC Crocus	1272	1613	1830	1196	1934	2100	2534	2493	2383	1935	1858	1897
GNB	AC Polaris	1796	2081	2366	1770	2364	2705	2551	2522	2527	2215	2386	2301
Bayo	610-23	1957	-	-	1681	-	-	2712	-	-	2105	-	-
	Average	1640	1889	1941	1602	2250	2329	2643	2509	2339	1994	2011	1952

Yield is in lb/acre  
2003 Seeding Date

May 28th

May 23rd

May 22nd

June 2nd

## PLANT CHARACTERISTICS – AVERAGED ACROSS ALL LOCATIONS

Type	Variety	Days to Maturity			Plant Type (1-9)		% pods > 5 cm		Lodging (1-5)		Seed Quality (1-5)	
		2003	2003-2002	2003-2001	2003	2003-2002	2003	2003-2002	2003	2003-2002	2003	2003
Navy	CDC Whitecap	86	96	97	1.3	1.9	83	77	1.4	1.8	1.1	1.3
Navy	Cirrus	89	94	96	3.5	4.2	81	77	1.7	2.2	2.7	2.3
Navy	AC Cruiser	87	94	-	3.2	3.6	76	79	1.1	1.3	1.2	1.4
Navy	T9601	85	93	-	2.7	3.3	69	70	1.2	1.5	1.3	1.7
Navy	Envoy	89	95	-	2.7	2.9	83	76	2.0	2.3	1.2	1.4
Navy	Morden 003	85	-	-	1.1	-	81	-	1.3	-	1.8	-
Black	CDC Espresso	87	-	-	1.8	-	76	75	1.0	-	2.2	-
Black	CDC Jet	86	92	95	1.0	1.3	72	78	1.1	1.1	2.3	2.2
Black	316-13	87	95	97	1.3	2.3	82	82	1.0	1.5	1.2	1.1
Red	AC Redbond	86	90	93	1.3	2.3	71	71	1.2	1.9	1.1	1.6
Pinto	CDC Pintium	82	86	88	1.0	1.6	81	79	1.1	1.3	1.0	1.8
Pinto	HR99	85	92	94	1.6	2.3	68	73	1.2	1.1	1.0	1.5
Pinto	CDC Minto	86	93	-	5.2	5.9	70	54	1.8	2.6	1.0	1.5
Pinto	SC 11745-3	84	-	-	1.7	-	77	-	1.5	-	1.0	-
GNB	CDC Crocus	87	94	95	4.1	4.7	77	50	2.0	2.6	1.8	2.1
GNB	AC Polaris	85	90	93	4.8	5.6	59	49	1.9	3.1	2.2	2.5
Bayo	610-23	82	-	-	1.1	-	75	-	1.0	-	2.0	-
	Average	86	93	94	2.3	3.2	75	71	1.4	1.9	1.5	1.7

**KEY** Pod Ht – (>5cm) Percent of pods above 5cm from the ground.  
Plant Type – (1-9) 1 = upright / bush type, 9 = vine

Lodging – (1-5) 1 = upright, 5 = flat on the ground (rated at maturity).  
Seed Quality – (1-5) 1 = very good (based on colour/wrinkle free/uniform size), 5 = very poor

## PEAS

Variety	Long Term <sup>1</sup>		Yield by Test Location – % of Carneval <sup>2</sup>				Resistance to <sup>3</sup>		Maturity <sup>4</sup> Rating	Vine <sup>5</sup> Length	Seed <sup>6</sup> Size
	Average Yield		2005 Data				Powdery	Bleaching			
	% of Carneval		Boissevain	Dauphin	Hamiota	Thornhill	Mildew				
<b>Yellow</b>											
Alfetta	98	(29)*	126	144	142	77	P	n/a	E	S	VL
Carneval	100	(90)	100	100	100	100	F	n/a	E	M	M
CDC Bronco	111	(16)	88	158	121	89	VG	n/a	M	M	M
CDC Golden	122	(17)	98	141	122	106	VG	n/a	M	M	M
CDC Mozart	108	(28)	110	146	138	81	VG	n/a	M	S	M
Cutlass	115	(17)	102	117	118	87	VG	n/a	M	M	M
Eclipse	111	(24)	116	151	140	102	VG	n/a	M	M	L
SW Carousel	115	(10)	128	143	137	98	VG	n/a	E	M	L
SW MIDAS	117	(17)	103	133	130	101	VG	n/a	E	M	M
Tudor	107	(10)	109	143	138	97	VG	n/a	M	M	L
<b>Varieties that are being tested or proposed for registration</b>											
CDC 653-8	119	(10)	130	159	139	117	VG	n/a	E	M	M
CDC 728-8	117	(4)	116	182	140	80	VG	n/a	E	M	L
CDC 985-36	–	–	87	174	114	70	VG	n/a	n/a	n/a	n/a
SWA5122	101	(4)	90	114	108	93	VG	n/a	E	M	M
<b>Green</b>											
BLUEBIRD	92	(4)	81	145	107	53	VG	n/a	E	S	M
Camry	108	(10)	98	153	125	73	VG	F	M	S	L
CDC Montero	96	(19)	102	137	115	89	VG	F	L	M	M
CDC Sage	95	(10)	90	117	98	90	VG	G	M	M	M
CDC Striker	110	(15)	96	122	149	105	P	G	M	M	M
COOPER	112	(10)	103	138	141	99	VG	G	L	M	L
Nessie	114	(15)	116	134	128	100	P	F	E	M	L
Nitouche	105	(14)	98	117	120	94	P	G	M	M	L
Stratus	112	(26)	114	140	130	73	VG	P	M	S	L
Vortex	98	(10)	100	133	111	86	P	G	E	M	M
<b>Varieties that are being tested or proposed for registration</b>											
SWA6154	107	(4)	99	133	115	95	VG	n/a	M	M	S
Yield of Carneval (bu/ac)			25	32	39	44					
CV%			16	11		9					
LSD%			28	25	n/s**	14					

<sup>1</sup> Long Term Average is best indicator of variety performance. Carneval average yield 61 bu/acre (4095 kg/ha).

<sup>2</sup> Use single year data with caution.

<sup>3</sup> Rating P = poor, F = fair, G = good, VG = very good, n/a is not available.

<sup>4</sup> Rating E = early, M = medium maturity

<sup>5</sup> Rating S = short, M = medium height

<sup>6</sup> Rating S = small, M = medium, L = large; seed size from the same variety can vary greatly from year to year.

\* Number in brackets is the actual number of site-years in direct comparison to the check CDC Fatima. The more site-years the more dependable the data.

\*\* n/s means the data is valid, but there are no significant differences between varieties at the site.

## FABABEANS

Variety	Long Term <sup>1</sup>		Yield by Test Location – % of CDC Fatima <sup>2</sup>		Seed Size
	Average Yield		2005	2003	
	% of CDC Fatima		Arborg	Arborg	
CDC Blitz	100	(22)*	101	96	Medium
CDC Fatima	100	(22)	100	100	Medium
Compass	98	(5)	110	108	Large
Quattro	100	(5)	–	101	Medium
Scirocco	95	(8)	–	93	Large
Taboar	96	(3)	112	103	Medium
<b>Varieties that are registered in the United States or being tested/proposed for registration in Canada</b>					
Ceb 02926	101	(2)	94	110	n/a
CMB-00	77	(2)	–	61	n/a
MFB-75	118	(2)	–	92	n/a
UM214	55	(2)	–	75	n/a
Yield of CDC Fatima (lb/acre)			3297		
CV%			9		
LSD%			20		

<sup>1</sup> Long Term Average is best indicator of variety performance. CDC Fatima average yield 3107 lb/acre (3491 kg/ha).

\* Number in brackets is the actual number of site years in direct comparison to the check CDC Fatima. The more site-years the more dependable the data.

<sup>2</sup> Use single site-year data with caution.

n/a = data not available

# Manitoba Pulse Buyer List – October 2005

B–Beans, F–Fababeans, L–Lentils, P–Peas, S–Soybeans

Company	Commodity	Phone	City/Town	CGC Registered
ADM Agri-Industries	B	204-325-9327	Winkler, MB	Y
AgPro/Saskatchewan Wheat Pool	P, L	306-569-5488	Regina, SK	Y
Agassiz Feeds	P	204-638-5840	Dauphin, MB	N
Agassiz Seed Farm Ltd.	B, S	204-745-6655	Homewood, MB	N
Agricore United	P, S	204-954-1528	Winnipeg, MB	Y
Agricore United Special Crops	B, F, L, P	204-745-6711	Carman, MB	Y
• Receiving Station	B	204-856-6373	Portage la Prairie, MB	Y
• Plum Coulee	B	204-829-2364	Plum Coulee, MB	Y
• Prairie Mountain Agri Ltd.	P	204-937-6370	Roblin, MB	Y
AgriTel Grain Ltd.	P, S	204-268-1415	Beausejour, MB	N
B.B.F. Enterprises Ltd.	S	204-737-2245	Letellier, MB	N
Belle Pulses Ltd.	P	306-423-5202	Bellevue, SK	Y
Best Cooking Pulses, Inc.	P, L	204-857-4451	Portage la Prairie, MB	Y
Cargill Ltd.	P	204-947-6219	Winnipeg, MB	Y
Central Grain Company	B	204-233-4977	Winnipeg, MB	N
Cloutier Agra Seeds Ltd.	S, P, B	204-261-0584	Winnipeg, MB	N
EXP Feeds Inc.	B, F, P	204-759-3000	Shoal Lake, MB	N
Global Grain Canada	B	204-829-3641	Plum Coulee, MB	Y
H & W Seed Service	B	204-325-7440	Winkler, MB	N
Hensall District Co-op	B	519-262-3002	Hensall, ON	N
Horizon Agro	P, L, S	204-746-2026	Morris, MB	Y
James Richardson International	P	204-934-5621	Winnipeg, MB	Y
• Pioneer Grain	P	204-934-5961	Winnipeg, MB	Y
• Tri Lake Agri Limited	P	204-523-5380	Killarney, MB	Y
Jordan Mills	S	204-331-3696	Winkler, MB	Y
• Delmar Commodities	S, P	204-331-3696	Winkler, MB	Y
Linear Grain	B, S, P	204-745-6747	Carman, MB	Y
• Portage Bean Station	B	204-274-2223	Macdonald, MB	Y
Louis Dreyfus Canada Ltd				
• Rathwell Station	P	204-749-2211	Rathwell, MB	Y
• Virden Station	P	204-748-6282	Virden, MB	Y
Masterfeeds	F, P	204-638-5840	Dauphin, MB	N
Parent Seeds Ltd.	B, P, L, S	204-737-2625	St. Joseph, MB	Y
• Adrian Bean Station	B	204-274-2720	Macdonald, MB	Y
Parrish & Heimbecker Ltd	P	204-987-4320	Winnipeg, MB	Y
• Nutri-Pea Limited	P	204-239-5995	Portage la Prairie, MB	N
Paterson & Sons Limited, N.M.	P, S	204-956-2090	Winnipeg, MB	Y
PrairieLand Grain Co. Ltd.	B, P, L	204-483-3636	Hartney, MB	N
R. T. Stow Ltd.	B	204-745-3252	Carman, MB	Y
Roy Legumex	B, F, L, P, S	204-758-3597	St. Jean Baptiste, MB	Y
• Fisher Seeds Ltd.	F	204-622-8800	Dauphin, MB	Y
• Duncan Seeds	B	204-822-6629	Morden, MB	Y
S.S. Johnson Seeds	P, B	204-376-5228	Arborg, MB	Y
Saskatchewan Wheat Pool	P	306-569-4200	Regina, SK	Y
Seed-Ex Inc.	S	204-737-2000	Letellier, MB	Y
The Puratone Corporation	P	204-376-5060	Arborg, MB	N
Thompsons Limited	B, P, L	519-676-5411	Blenheim, ON	Y
• Keystone Grain	B, S	204-325-9555	Winkler, MB	Y
• Circle T Agri Services	B	204-723-2164	Treherne, MB	Y
• Y2K Farms	B	204-252-2132	Edwin, MB	Y
Vanderveen Commodity Services	S	204-745-6444	Carman, MB	Y
Walhalla Bean Co. (Canada Ltd)	B	701-549-3721	Walhalla, ND	Y
• Winkler Receiving	B	204-325-0767	Winkler, MB	Y
Walker Seeds Ltd.	P	306-873-3777	Tisdale, SK	Y
Western Grain Trade Ltd.	P	306-445-4022	North Battleford, SK	N

To be included on our Manitoba Buyers List, companies should contact the MPGA office at 204-745-6488 to register.

Note: These companies are authorized to deduct and remit levy to MPGA. This list is provided by MPGA as a convenience to our members. MPGA accepts no responsibility or liability for the accuracy of the completeness of the information provided. It is your personal responsibility to satisfy yourself that any company you deal with is financially sound. Questions regarding licensing and security should be directed to the Canadian Grain Commission at 1-800-853-6705 or 1-204-983-2770.