

# 2012 Report

## Ontario Dry Bean Variety Trials

prepared by the Ontario Pulse Crop Committee

Data collected 2009 – 2011

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## 2012 Report Ontario Dry Bean Variety Trials

This Infosheet contains the most recent variety information for dry edible beans planted and harvested in 2011. The information is prepared annually by the Ontario Pulse Crop Committee and edited by the Ontario Ministry of Agriculture, Food and Rural Affairs.

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**Table 1a – 2009 – 2011 White Bean Variety Performance Trial Long Season Area (St. Thomas, Kippen, Woodstock, Granton)**

Variety	Days to Maturity <sup>3</sup>	Yield (t/ha) <sup>1</sup>										
		Long Season All Locations		St Thomas		Kippen			Woodstock		Granton	
		3 Year	2 Year	2 Year	2011	3 Year	2 Year	2011	2 Year	2011	2 Year	2011
AC Compass	92	3.12	3.09	3.70	3.61	3.36	3.36	3.16	2.94	2.58	2.35	2.69
T9903	93	3.11	3.09	3.76	3.65	3.14	3.05	2.73	2.77	2.43	2.77	2.95
Lightning	95	3.19	3.18	3.53	3.68	3.52	3.65	3.45	3.36	3.38	2.18	2.31
OAC Thunder	96	3.23	3.19	3.70	3.47	3.53	3.51	3.43	3.09	2.87	2.45	2.56
AC Cruiser	97	3.07	3.05	3.43	2.97	3.30	3.34	3.29	3.12	1.97	2.32	2.52
T9905	97	3.40	3.39	3.62	3.47	3.57	3.59	3.45	3.49	2.70	2.84	3.21
GTS 544	98	2.97	2.94	3.22	2.64	3.23	3.25	3.13	2.94	1.60	2.35	2.50
Nautica	98	3.27	3.32	3.73	3.60	3.18	3.34	3.25	3.55	3.26	2.66	2.71
OAC Dublin	98	3.31	3.27	3.56	3.52	3.61	3.62	3.27	3.40	2.71	2.52	2.76
AC Mast	98	3.12	3.11	3.65	3.44	3.27	3.30	3.37	3.04	2.15	2.46	2.56
Vista	98	3.28	3.31	3.68	3.50	3.28	3.38	3.41	3.37	2.95	2.79	3.00
Reliant	99	3.04	3.01	3.30	2.78	3.34	3.35	3.33	3.08	2.22	2.30	2.21
OAC Rex	100	3.35	3.36	3.70	3.79	3.52	3.61	3.35	3.71	3.11	2.41	2.69
Apex	100	3.52	3.58	3.71	3.48	3.45	3.64	3.50	4.36	3.39	2.60	2.84
Viscount	101	3.18	3.19	3.43	3.21	3.27	3.39	3.30	3.22	2.63	2.73	2.96
Rexeter	101	3.63	3.59	3.62	2.96	3.71	3.62	3.50	4.33	3.56	2.80	2.97
Average Yield (t/ha) <sup>1</sup>		3.24	3.23	3.58	3.36	3.39	3.44	3.31	3.36	2.72	2.53	2.71
LSD (0.05) <sup>2</sup>		0.15	0.16	0.33	0.51	0.23	0.27	0.44	0.29	0.42	0.39	0.46

<sup>1</sup> To convert t/ha to lbs/acre multiply by 893.

<sup>2</sup> LSD (0.05) - the LSD is a measure of variability within the trial. There is a ninety five percent probability that yields that differ by an amount greater than the LSD are different. Yields that differ by an amount less or equal to the LSD should be considered the same.

<sup>3</sup> Days to Maturity is 3 year average. Maturity is affected by planting date and area where variety is being grown. Varieties are rated as mature when 95% of the pods are ripe. Normally, 3-10 additional drying days are needed before the crop is dry enough for combining.

**Table 1b – 2009 – 2011 White Bean Variety Performance Trial, Short Season Area (Blyth, Kippen, Elora, Woodstock)**

	Days to Maturity <sup>3</sup>	Yield (t/ha) <sup>1</sup>												
		Short Season All Locations		Brussels/Blyth			Kippen			Elora			Woodstock	
		3 Year	2 Year	3 Year	2 Year	2011	3 Year	2 Year	2011	3 Year	2 Year	2011	2 Year	2011
AC Compass	98	2.86	2.84	3.39	3.35	3.07	3.36	3.36	3.16	1.77	1.71	1.01	2.94	2.58
T9903	100	2.75	2.86	3.24	3.65	3.80	3.14	3.05	2.73	1.86	1.97	1.12	2.77	2.43
OAC Thunder	102	3.12	3.11	3.70	3.77	3.68	3.53	3.51	3.43	2.16	2.06	1.16	3.09	2.87
Lightning	102	3.10	3.16	3.41	3.53	3.17	3.52	3.65	3.45	2.19	2.10	1.28	3.36	3.38
AC Cruiser	104	2.90	2.93	3.40	3.49	3.27	3.30	3.34	3.29	1.87	1.79	0.94	3.12	1.97
GTS 544	104	2.94	3.08	3.37	3.62	3.92	3.23	3.25	3.13	2.20	2.50	1.69	2.94	1.60
OAC Dublin	105	3.04	3.05	3.32	3.32	3.00	3.61	3.62	3.27	1.96	1.85	0.89	3.40	2.71
T9905	105	3.28	3.42	3.79	4.07	3.98	3.57	3.59	3.45	2.35	2.52	1.46	3.49	2.70
AC Mast	105	2.87	2.88	3.35	3.49	3.59	3.27	3.30	3.37	1.86	1.69	0.88	3.04	2.15
Vista	106	3.07	3.22	3.53	3.74	3.69	3.28	3.38	3.41	2.20	2.37	1.43	3.37	2.95
Nautica	106	3.07	3.17	3.42	3.57	3.43	3.18	3.34	3.25	2.28	2.23	1.13	3.55	3.26
Reliant	107	3.05	3.13	3.57	3.82	3.85	3.34	3.35	3.33	2.23	2.28	1.44	3.08	2.22
OAC Rex	107	3.18	3.24	3.55	3.52	3.30	3.52	3.61	3.35	2.10	2.13	1.11	3.71	3.11
Rexeter	108	3.44	3.48	3.82	3.98	3.86	3.71	3.62	3.50	2.19	1.97	0.98	4.33	3.56
Apex	108	3.33	3.46	3.68	3.75	3.69	3.45	3.64	3.50	2.17	2.10	1.22	4.36	3.39
Viscount	108	3.11	3.18	3.65	3.78	4.00	3.27	3.39	3.30	2.35	2.34	1.65	3.22	2.63
Average Yield (t/ha) <sup>1</sup>		3.07	3.14	3.51	3.65	3.58	3.39	3.44	3.31	2.11	2.10	1.21	3.36	2.72
LSD (0.05) <sup>2</sup>		0.11	0.14	0.17	0.22	0.34	0.23	0.27	0.44	0.23	0.30	0.24	0.29	0.42

<sup>1</sup> To convert t/ha to lbs/acre multiply by 893.

<sup>2</sup> LSD (0.05) - the LSD is a measure of variability within the trial. There is a ninety five percent probability that yields that differ by an amount greater than the LSD are different. Yields that differ by an amount less or equal to the LSD should be considered the same.

<sup>3</sup> Days to Maturity is 3 year average. Maturity is affected by planting date and area where variety is being grown. Varieties are rated as mature when 95% of the pods are ripe. Normally, 3-10 additional drying days are needed before the crop is dry enough for combining.

Long Season Testing Locations			
St Thomas	2011	2010	--
Kippen	2011	2010	2009
Woodstock	2011	2010	--
Granton	2011	2010	--

Short Season Testing Locations			
Brussels/Blyth	2011	2010	2009
Kippen	2011	2010	2009
Elora	2011	2010	2009
Woodstock	2011	2010	--

**Table 2 – 2009 – 2011 White Bean Characteristics and Distributors**

Variety	100 Seed Weight (g) <sup>4</sup>	Disease Reaction <sup>1</sup>					Common Blight (0-5) <sup>1</sup>	Suitability for Direct Harvest <sup>3</sup>	Distributor
		Bean Common Mosaic Virus		Anthracnose <sup>2</sup>					
		Race		Race					
		1	15	17	23	73			
AC Compass	21.3	R	R	S	S	S	S	2.8	Cook's
T9903	22.8	R	R	R	R	R	S	3.2	Hyland/Dow,Thompsons
Lightning	21.6	R	R	S	S	S	S	2.3	Hensall DC
OAC Thunder	22.3	R	R	S	S	S	S	2.6	SeCan
AC Cruiser	21.0	R	R	S	S	S	S	2.9	Hensall DC
T9905	22.2	R	R	R	R	S	S	2.8	Hyland/Dow, Thompsons
GTS 544	21.1	R	R	NA	R	S	S	3.2	Cook's, Thompsons, Hensall DC
OAC Dublin	21.5	R	S	S	S	S	S	3.1	R.T. Bolton, Rosebank
AC Mast	22.6	R	R	S	S	S	S	3.4	Advantage
Nautica	19.9	R	R	S	S	S	S	2.2	SeCan
Vista	19.8	R	R	R	R	S	S	3.1	Cook's, Thompsons, Hensall DC
Reliant	20.6	R	R	NA	NA	S	S	2.8	Cook's, Thompsons, Hensall DC
OAC Rex	21.7	R	R	S	S	S	R*	2.3	Hensall DC
Apex	24.0	NA	NA	NA	NA	NA	R*	2.4	SeCan
Rexeter	20.6	R	S	S	S	S	R*	2.4	Hensall DC
Viscount	19.3	R	R	NA	NA	S	S	3.2	Cook's, Thompsons, Hensall DC

<sup>1</sup> R = Resistant, S = Susceptible, NA = Not Available

<sup>2</sup> Anthracnose ratings, the predominant race found now in Ontario is Race 73. Race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

<sup>3</sup> A variety's suitability for direct harvest is based on a scale of 1-5, where 1 = upright plant type, standing erect with good bottom pod height and 5 = more prostrate plant type or plants that are not erect, with poor bottom pod height.

\* Resistance gene for common bacterial blight (*Xanthomonas campestris* pv. *Phaseoli*). Very little disease will develop on this variety.

<sup>4</sup> 100 Seed Weight is a 3 year average. To convert 100 seed weight (g) to seeds per pound divide 45,400 by seed weight. Ex.: 45,400 / 22.2 gm = 1955 seeds/lb

**Table 3 – 2009 – 2011 Coloured Bean Variety Performance, Characteristics and Distributors**

Variety	Market Class	Days to Maturity <sup>2</sup>	Yield (t/ha) <sup>1, 2</sup>	100 Seed Weight <sup>2,5</sup> (g)	Disease Reaction <sup>3</sup>					Distributor
					Bean Common Mosaic Virus		Anthracnose <sup>4</sup>			
					Race 1	Race 15	Alpha Race 17	Delta Race 23	Race 73	
Etna	Cranberry	91	2.63	64	R	R	S	S	S	Cook's
Red Rider	Cranberry	99	3.06	63	R	R	R	R	S	SeCan
Hooter	Cranberry	100	2.95	65	R	R	S	S	R	Cook's
Red Hawk	Dark Red Kidney	94	2.30	56	R	R	R	S	R	Hyland/Dow, Thompsons
Majesty	Dark Red Kidney	96	2.73	70	R	R	R	S	S	Hensall DC
OAC Redstar	Dark Red Kidney	97	2.50	60	R	R	R	S	S	SeCan
AC Calmont	Dark Red Kidney	98	2.59	58	R	R	R	S	R	Hensall DC
GTS 104	Dark Red Kidney	98	2.91	56	-	-	-	-	-	Gen-Tec
OAC Lyrik	Light Red Kidney	90	2.53	66	R	R	R	R	R	Public
Pink Panther	Light Red Kidney	93	2.63	65	R	R	R	S	R	Cook's
OAC Inferno	Light Red Kidney	102	3.24	64	R	S	R	S	R	Hensall DC
Red Kanner	Light Red Kidney	103	2.89	54	R	R	S	S	S	Hyland/Dow, Thompsons

<sup>1</sup> To convert t/ha to lbs/acre multiply by 893.

<sup>2</sup> Yield, Days to Maturity and Seed weight are 3 year averages.

<sup>3</sup> R = Resistant, S = Susceptible, NA = Not Available

<sup>4</sup> Anthracnose ratings- the predominant race in Ontario is Race 73. Race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

<sup>5</sup> To convert 100 Seed Weight (g) to seeds per pound divide 45,400 by seed weight. Example: 45,400 / 63 gm = 720 seeds/lb.

Coloured Bean Testing Locations							
Monkton	2011	2010	-	St. Thomas	2011	2010	2009
Kippen	2011	2010	2009	Thorndale	-	2010	2009
Elora	2011	-	-	Woodstock	2011	-	-

**Table 4a – Monkton Station Report: 2009 – 2011 Coloured Bean Performance Trial**

Variety	Market Class	Days to Maturity Monkton <sup>2</sup>	100 Seed Weight <sup>2,3</sup> (g)	Yield (t/ha) <sup>1</sup>		
				Monkton		3 Year All Locations
				2 Year	2011	
Etna	Cran	97	64	2.70	2.73	2.63
Red Rider	Cran	103	63	3.08	3.10	3.06
Hooter	Cran	105	65	3.25	3.24	2.95
<b>Average (t/ha)</b>				<b>3.01</b>	<b>3.02</b>	<b>2.88</b>
Red Hawk	DRK	97	56	2.33	2.20	2.30
AC Calmont	DRK	98	58	2.83	2.87	2.59
OAC Redstar	DRK	100	60	2.75	2.42	2.50
Majesty	DRK	100	70	3.15	3.46	2.73
GTS 104	DRK	100	56	3.32	3.47	2.91
<b>Average (t/ha)</b>				<b>2.87</b>	<b>2.89</b>	<b>2.61</b>
OAC Lyrik	LRK	96	66	2.69	2.51	2.53
Pink Panther	LRK	98	65	2.56	2.29	2.63
OAC Inferno	LRK	103	64	3.40	3.16	3.24
Red Kanner	LRK	104	54	3.41	3.68	2.89
<b>Average (t/ha)</b>				<b>3.02</b>	<b>2.91</b>	<b>2.82</b>

**Table 4b – St. Thomas Station Report: 2009 – 2011 Coloured Bean Performance Trial**

Variety	Market Class	Days to Maturity St. Thomas <sup>2</sup>	100 Seed Weight <sup>2,3</sup> (g)	Yield (t/ha) <sup>1</sup>			
				St. Thomas			3 Year All Locations
				3 Year	2 Year	2011	
Etna	Cran	80	64	3.05	3.40	3.50	2.63
Red Rider	Cran	88	63	3.88	4.16	4.37	3.06
Hooter	Cran	89	65	3.29	3.46	3.77	2.95
<b>Average (t/ha)</b>				<b>3.41</b>	<b>3.67</b>	<b>3.88</b>	<b>2.88</b>
Red Hawk	DRK	86	56	2.92	3.41	3.75	2.30
OAC Redstar	DRK	87	60	3.15	3.60	3.70	2.50
AC Calmont	DRK	87	58	3.18	3.48	3.43	2.59
Majesty	DRK	88	70	3.09	3.48	4.01	2.73
GTS 104	DRK	90	56	3.61	3.77	4.08	
<b>Average (t/ha)</b>				<b>3.19</b>	<b>3.55</b>	<b>3.79</b>	<b>2.61</b>
OAC Lyrik	LRK	77	66	3.12	3.25	3.32	2.53
Pink Panther	LRK	83	65	3.21	3.51	3.64	2.63
OAC Inferno	LRK	92	64	3.93	4.02	3.89	3.24
Red Kanner	LRK	94	54	3.55	3.66	3.63	2.89
<b>Average (t/ha)</b>				<b>3.45</b>	<b>3.61</b>	<b>3.62</b>	<b>2.82</b>



**Table 4c – Kippen Station Report: 2009 – 2011 Coloured Bean Performance Trial**

Variety	Market Class	Days to Maturity Kippen <sup>2</sup>	100 Seed Weight <sup>2,3</sup> (g)	Yield (t/ha) <sup>1</sup>			
				Kippen			3 Year All Locations
				3 Year	2 Year	2011	
Etna	Cran	91	64	2.81	2.81	2.57	2.63
Red Rider	Cran	100	63	3.28	3.36	3.48	3.06
Hooter	Cran	102	65	3.34	3.27	3.44	2.95
<b>Average (t/ha)</b>				<b>3.15</b>	<b>3.15</b>	<b>3.16</b>	<b>2.88</b>
Red Hawk	DRK	93	56	2.39	2.28	2.30	2.30
Majesty	DRK	96	70	3.09	3.04	3.45	2.73
OAC Redstar	DRK	97	60	2.58	2.44	2.43	2.50
GTS 104	DRK	98	56	2.76	2.60	2.78	2.91
AC Calmont	DRK	100	58	2.61	2.50	2.41	2.59
<b>Average (t/ha)</b>				<b>2.68</b>	<b>2.57</b>	<b>2.67</b>	<b>2.61</b>
OAC Lyrik	LRK	89	66	2.63	2.34	2.35	2.53
Pink Panther	LRK	94	65	2.79	2.55	2.33	2.63
Red Kanner	LRK	103	54	2.83	2.83	2.86	2.89
OAC Inferno	LRK	105	64	3.36	3.25	3.56	3.24
<b>Average (t/ha)</b>				<b>2.90</b>	<b>2.74</b>	<b>2.77</b>	<b>2.82</b>

**Table 4d – Elora Station Report: 2009 – 2011 Coloured Bean Performance Trial**

Variety	Market Class	Days to Maturity Elora <sup>2</sup>	100 Seed Weight <sup>3</sup> (g)	Yield (t/ha) <sup>1</sup>		
				Elora		3 Year All Locations
				2 Year	2011	
Etna	Cran	96	64	1.67	1.60	2.63
Red Rider	Cran	101	63	1.79	2.01	3.06
Hooter	Cran	104	65	1.80	1.96	2.95
<b>Average (t/ha)</b>				<b>1.75</b>	<b>1.86</b>	<b>2.88</b>
Red Hawk	DRK	98	56	1.63	1.28	2.30
OAC Redstar	DRK	100	60	1.69	1.41	2.50
Majesty	DRK	101	70	1.49	1.99	2.73
GTS 104	DRK	102	56	1.76	1.65	2.91
AC Calmont	DRK	104	58	1.57	1.32	2.59
<b>Average (t/ha)</b>				<b>1.63</b>	<b>1.53</b>	<b>2.61</b>
OAC Lyrik	LRK	95	66	1.83	1.42	2.53
Pink Panther	LRK	97	65	1.87	1.40	2.63
OAC Inferno	LRK	104	64	2.07	1.81	3.24
Red Kanner	LRK	110	54	1.74	1.55	2.89
<b>Average (t/ha)</b>				<b>1.88</b>	<b>1.55</b>	<b>2.82</b>

<sup>1</sup> To convert t/ha to lbs/ac multiply by 893.

<sup>2</sup> Days to Maturity and Seed Weight is 2 year average for Monkton and Elora Stations, 3 year average for St. Thomas and Kippen Stations.

<sup>3</sup> To convert 100 Seed Weight (g) to seeds per pound divide 45,400 by seed weight. Example: 45,400 / 63 gm = 720 seeds/lb

**Table 5 – 2010 – 2011 Black Bean Characteristics and Distributors**

Variety	100 Seed Weight <sup>3</sup> (g)	Disease Reaction <sup>1</sup>					Suitability for Direct Harvest <sup>4</sup>	Distributor
		Bean Common Mosaic Virus		Anthracnose <sup>2</sup>				
		Race		Race				
		1	15	17	23	73		
Eclipse		R	R	R	R	S	1.8	Duncan Seeds
AC Harblack	20.9	R	R	R	R	S	3.8	SeCan
Blackjack	23.3	R	R	R	R	S	4.1	Gen-Tec Seeds

<sup>1</sup> R = Resistant, S = Susceptible, NA = Not Available

<sup>2</sup> Anthracnose ratings, the predominant race found now in Ontario is Race 73. Race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

<sup>3</sup> To convert 100 seed weight (g) to seeds per pound divide 45,400 by seed weight. Example: 45,400 / 63 gm = 720 seeds/lb

<sup>4</sup> A variety's suitability for direct harvest is based on a scale of 1-5, where 1 = upright plant type, standing erect with good bottom pod height and 5 = more prostrate plant type or plants that are not erect, with poor bottom pod height.

**Table 6 – 2010 – 2011 Black Bean Variety Performance Trial**

Variety	Days to Maturity <sup>2</sup>	Yield (t/ha) <sup>1</sup>				
		All Locations	St Thomas	St Thomas	Kippen	Kippen
		2 Year <sup>2</sup>	2 Year	2011	2 Year	2011
Eclipse	--	--	--	3.46	--	3.62
AC Harblack	95	3.13	2.60	1.78	3.39	3.13
Blackjack	97	3.42	3.06	2.92	3.46	3.31
Average Yield (t/ha) <sup>1</sup>		3.51	3.15	2.74	3.52	3.42
LSD (0.05) <sup>3</sup>				0.49		0.50

<sup>1</sup> To convert t/ha to lbs/acre multiply by 893.

<sup>2</sup> 2 Year average yield and days to maturity is average of St Thomas, Kippen in 2011 and St. Thomas, Kippen, Woodstock in 2010. Maturity rating is affected by planting date and area where variety is being grown. Varieties are rated as mature when 95% of the pods are ripe. Normally, 3-10 additional drying days are needed before the crop is dry enough for combining.

<sup>3</sup> LSD (0.05) - the LSD is a measure of variability within the trial. There is a ninety five percent probability that yields that differ by an amount greater than the LSD are different. Yields that differ by an amount less or equal to the LSD should be considered the same.

Testing Locations		
St Thomas	2011	2010
Kippen	2011	2010
Woodstock	--	2010

**Table 7 – Addresses of Distributors for Edible Bean Varieties**

<p><b>Advantage Seed Growers and Processors Inc.</b>                  Box 351                  Lucknow, ON N0G 2H0                  1-800-651-7333</p>	<p><b>Cook's Division of Parrish and Heimbecker</b>                  P.O. Box 10                  Centralia, ON N0M 1K0                  (519) 228-7000</p>	<p><b>Duncan Seeds Limited</b>                  301 South Railway Street                  Morden, MB R6M 1G7                  (204) 822-6629</p>
<p><b>Gen-Tec Seeds Ltd.</b>                  P. O. Box 98                  Woodslee, ON NOR 1V0                  (519) 975-2557</p>	<p><b>Hensall District Co-op</b>                  P.O. Box 219                  Hensall, ON N0M 1X0                  (519) 262-3002</p>	<p><b>Hyland Seeds/ Dow AgroSciences</b>                  P. O. Box 1090                  Blenheim, ON NOP 1A0                  (519) 676-8146</p>
<p><b>R.T. Bolton and Sons</b>                  43234 Winthrop Road, RR#1                  Dublin, ON N0K 1E0                  (519) 527-0455</p>	<p><b>Rosebank Seed Farms Ltd</b>                  7340 Perth Line 24, RR#2                  Staffa, ON N0K 1Y0                  (519) 345-2697</p>	<p><b>SeCan Association</b>                  400-300 Terry Fox Drive                  Kanata, ON K2K 0E3                  (613) 592-8600</p>
<p><b>Thompsons Limited</b>                  2 Hyland Drive                  P.O. Box 250                  Blenheim, ON, NOP 1A0                  (519) 676-5411/ (800) 265-5225</p>		