
INFOSheet

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2006 PERFORMANCE TRIAL REPORT FOR DRY EDIBLE BEANS

Ontario Pulse Crop Committee

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

REFERENCES:

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TABLE 1. White Bean Variety Performance

Full Season/Mid-Season Areas ¹			Short Season Areas ²		
Variety ³	Maturity	Yield ⁴ (t/ha)	Variety ³	Days to Maturity	Yield ⁴ (t/ha)
Cirrus	88	3.27	Cirrus	95	2.79
AC Compass	90	3.70	AC Compass	101	3.18
Galley	92	3.49	OAC Thunder	101	3.18
OAC Thunder	92	3.94	Kippen	103	2.61
Stingray	93	3.74	Beacon	105	3.29
Beacon	94	3.67	Stingray	106	3.18
T9905	95	4.20	AC Cruiser	107	2.94
OAC Silvercreek	95	3.67	AC Trident	108	3.27
AC Mast	95	3.65	AC Mast	108	3.17
OAC Gryphon	95	3.73	OAC Gryphon	108	3.25
AC Cruiser	95	3.72	OAC Rex	110	3.17
AC Trident	95	3.56			
OAC Rex	96	3.91			
Vista	96	3.79			
Nautica	96	3.90			
Scepter	98	4.04			

¹ Yield and days to maturity are based on the mean of 8 trials at 3 locations (Kippen, St. Thomas and Granton) over 3 years (2003–2005). For a graphic picture of the data see Figure 1. *Yield vs. Maturity for Full/Mid Season White Bean Varieties (Regression Chart)*

² Yield and days to maturity are based on the mean of 7 trials at 3 locations (Brussels, Elora and Winchester) over 3 years (2003–2005). For a graphic picture of the data see Figure 2. *Yield vs. Maturity for Short Season White Bean Varieties (Regression Chart)*

³ White bean varieties are arranged based on days to maturity. The maturity of most varieties change between areas due to environmental differences.

⁴ 1 t/ha = 893 lbs./ac.

FIGURE 1. Yield vs. Maturity for Full/Mid Season Areas (Regression Chart)

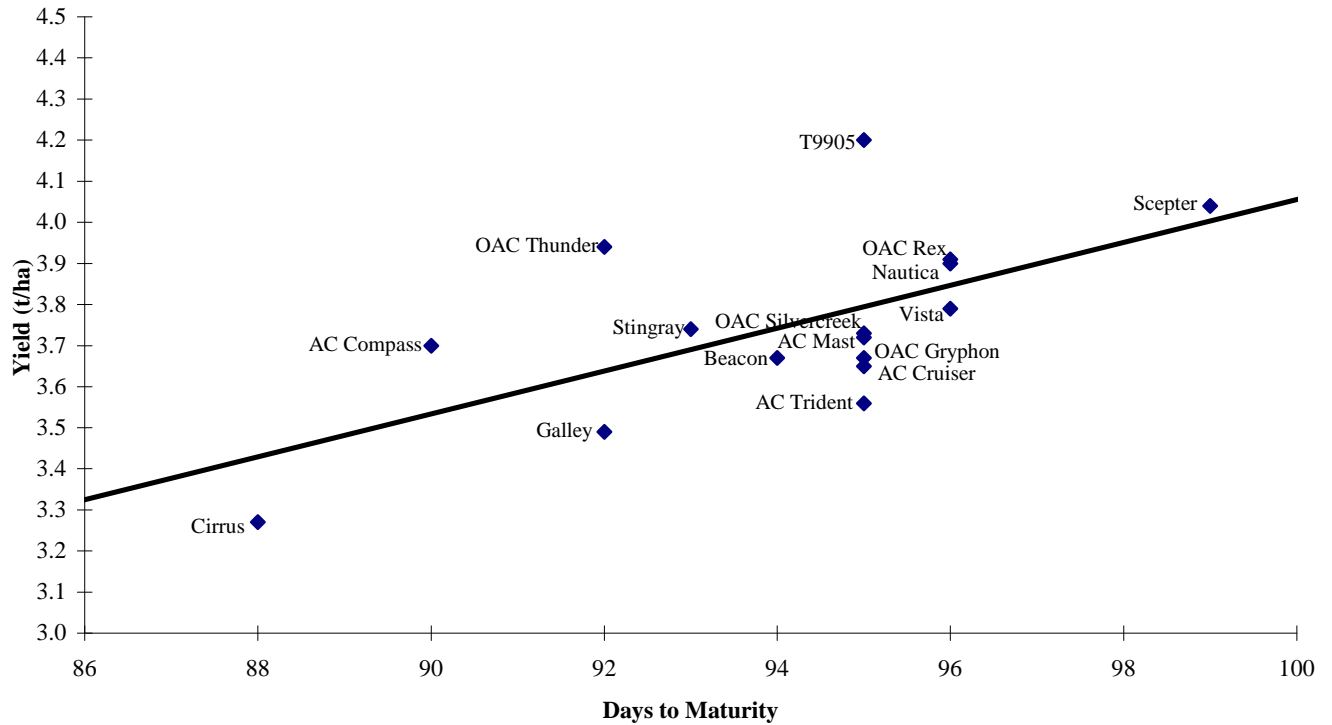


FIGURE 2. Yield vs. Maturity for Short Season Areas (Regression Chart)

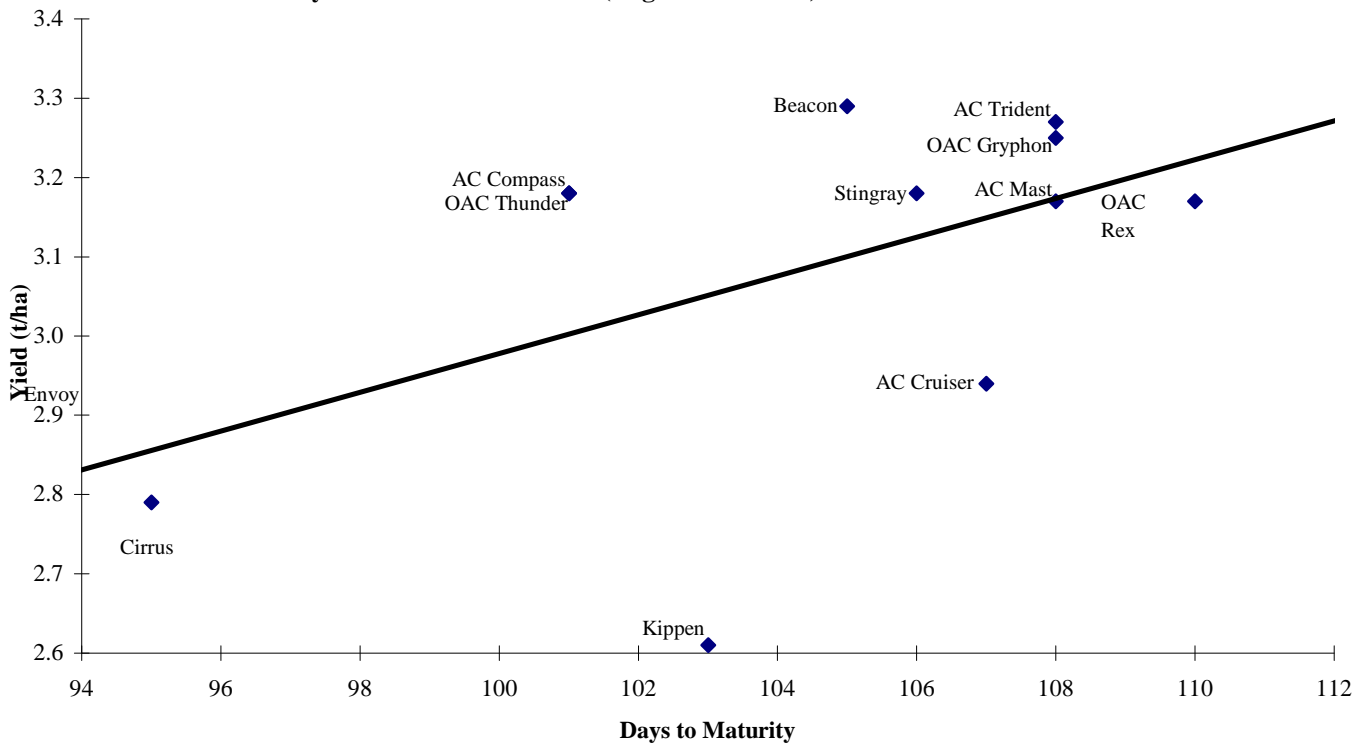


TABLE 2. White Bean Characteristics and Distributors

Variety	Disease Reaction ¹							Distributor
	100 Seed Weight (g)	Bean Common Mosaic Virus ²		Anthracnose		White Mould ³		
		Race 1	Race 15	Race 17	Race 23	3 Year ⁴ Average	2 Year ⁴ Average	
Cirrus	20.5	R	R	S	S	NA	3.9	Hyland
AC Compass	23.1	R	R	S	S	3.1	3.3	Cooks
Galley	22.4					NA	3.0	
Kippen	19.8					NA	3.1	
OAC Thunder	22.5	R	R	S	S	2.7	2.9	SeCan Association
AC Cruiser	21.3	R	R	S	S	NA	2.9	Hensall
Stingray	22.4	R	R	S	S	2.7	2.8	Hyland
Beacon	21.1	NA	NA	NA	NA	NA	3.8	Hyland
AC Mast	22.7	R	R	S	S	2.8	2.8	Advantage
AC Trident	21.3	R	R	S	S	2.6	2.7	Great Canadian Bean Company
OAC Silvercreek	21.1	R	R	R	R	2.4	2.7	SeCan Association
OAC Gryphon	20.7	R	R	R	R	2.9	3.0	Public Variety
T9905	23.0	R	R	R	R	NA	2.8	Hyland
OAC Rex	21.7	R	R	S	S	2.5	2.7	Great Canadian Bean Company
Scepter	27.0	R	R	R	R	2.7	2.8	Cooks, Hyland, Hensall
Nautica	20.1					NA	NA	
Vista	20.2	R	R	R	R	2.5	2.6	Cooks, Hyland, Hensall

¹ R = Resistant, S = Susceptible, NA = Not Available

² Anthracnose race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

³ White mould ratings are based on a scale of 1–5, where 1 = very tolerant or low levels of natural infestation, 5 = very susceptible. White mould trials were located at Kippen, St. Thomas and Elora in 1997, Kippen and Winchester in 2000, and Granton, St. Thomas and Winchester in 2004. NA = Not Available.

⁴ Comparisons between varieties should be made only within the same column of data.

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

TABLE 3. Coloured Bean Variety Performance

Variety	Market Class	Days to Maturity ¹	Yield ^{1,3} (t/ha)	100 Seed ¹ Weight (g)	Disease Reaction ²				Distributor
					Bean Common				
					Mosaic Virus		Anthracnose ⁴		
Race 1	Race 15	Race 17	Race 23						
SVM Taylor Cranberry	Cranberry	88	2.55	59.7	S	S	S	S	ADM A.S.I.
Hooter	Cranberry	98	2.85	68.2	R	R	S	S	Cooks
Red Hawk	dark red kidney	92	2.56	55.2	R	R	R	R	Hyland Seeds
Montcalm	dark red kidney	99	2.36	57.8	R	R	R	S	Public
AC Calmont	dark red kidney	97	2.79	58.2	R	R	R	R	G.C.B.C.
Majesty	dark red kidney	95	2.81	70.0					
AC Elk	light red kidney	90	2.40	61.9	R	S	R	S	Public Variety
AC Litekid	light red kidney	99	2.71	54.2	R	R	R	S	Public Variety
Red Kanner	light red kidney	100	3.01	55.7					
AC Harblack	black	96	3.30	20.7	R	R	S	R	SeCan Assoc.
Blackjack	black	99	3.53	23.5	R	R	R	R	Cooks, Hyland, Hensall
Harrow Hawk	black	101	3.44	22.5					
GTS 401	white kidney	101	3.22	46.6	R	R	R	S	Cooks, Hyland, Hensall

¹ Yields, maturities and seed weights are based on the means of 10 trials at 4 locations (Kippen, Monkton, St. Thomas and Thorndale) over 3 years (2003-2005).

² Disease Ratings (R = Resistant, S - Susceptible, NA = Not Available)

³ 1 t/ha = 893 lbs./ac.

⁴ Anthracnose race 17 (binary system) is equivalent to the Alpha race, race 23 (binary system) is equivalent to the Delta race.

TABLE 4. Addresses of Distributors for Edible Bean Varieties

Advantage Seed Growers and Processors Inc. Box 29, 323 Havelock Street, Lucknow, Ontario N0G 2H0 1-800-651-7333	Cook's Division of Parrish and Heimbecker P.O. Box 10, Centralia ON N0M 1K0 (519) 228-7000	Hensall District Co-op P.O. Box 219, Hensall, ON N0M 1X0 (519) 262-3002
ADM Agri Sales Inc. (ADM A.S.I.) 2385 Wright Ave. Twin Falls, Idaho (208) 734-2550	Gen-Tec Seeds Ltd. P. O. Box 98, Woodslee ON N0R 1V0 (519) 975-2557	Hyland Seeds Div. of Thompsons Ltd. P. O. Box 130, Blenheim ON N0P 1A0 (519) 676-8146
Great Canadian Bean Co. (G.C.B.C.) R. R. #1, Ailsa Craig ON N0M 1A0 (519) 232-4449	SeCan Association 201-52 Antares Drive Ottawa ON K2E 7Z1 (613) 225-6891	Syngenta Seeds Inc. P.O. Box 4188 Boise Idaho 83704-4188 (208) 322-7272

2003 - 2005 ELORA WHITE BEAN PERFORMANCE TRIAL						
Yield kg/ha						
Cultivar	Days to Maturity Short Season Area (1)	2005	2004	2003	3 YEAR AVERAGE	
					ELORA 2003 - 2005	SHORT SEASON AREA 2003-2005(1)
Cirrus	95	2193	1951	1603	1916	2787
AC Compass	101	2714	2426	2360	2500	3183
OAC Thunder	101	2651	2496	2795	2647	3184
Kippen (HR 100)	103	2519	1801	1626	1982	2605
Beacon	105	3071	2715	2625	2804	2787
Stingray	106	2939	2617	2373	2643	3181
AC Cruiser	107	2848	1777	2255	2293	2939
OAC Gryphon	108	2936	2456	3036	2809	3253
AC Mast	108	2779	2634	2037	2483	3166
AC Trident	108	2913	2232	3269	2805	3268
OAC REX	110	2677	2161	3232	2690	3173
Galley (HR 110)		2708	2167		2438	
Nautica		3029			3029	
AVERAGE		2767	2286	2474	2509	3048

2002 - 2004 BRUSSELS WHITE BEAN PERFORMANCE TRIAL						
Yield kg/ha						
Cultivar	Days to Maturity Short Season Area (1)	2004	2003	2002	BRUSSELS 2002 -2004 AVG.	SHORT SEASON AREA 2003-2005(1)
Cirrus	95	3020	3395	2738	3051	2787
AC Compass	101	3446	3923	3189		3183
OAC Thunder	101	3001	3969	3155	3375	3184
Kippen (HR 100)	103	2615	3516	2630	2920	2605
Beacon	105	3234	3825	3303	3454	2787
Stingray	106	2875	3825	3129	3276	3181
AC Cruiser	107	3007	3146	2730	2961	2939
OAC Gryphon	108	2943	3724	3166	3278	3253
AC Mast	108	3570	3623	2914	3369	3166
AC Trident	108	3122	3821	3347	3430	3268
OAC REX	110	2543	3801			3173
Galley (HR 110)			2930			
Average		3034	3625	3030	3230	3048

1. Yield and days to maturity are based on the mean of 7 trials at 3 locations (Brussels, Elora and Winchester) over 3 years (2003–2005).

2003 - 2005 KIPPEN WHITE BEAN PERFORMANCE TRIAL						
Yield kg/ha						
Cultivar	Days to Maturity Full/mid Season Area (1)				3 YEAR AVERAGE	
		2005	2004	2003	KIPPEN	FULL/MID SEASON AREA(1)
Cirrus	88	2379	2700	3011	2697	3265
Kippen (HR 100)	89	2153				
AC Compass	90	2413	2795	3933	3047	3698
OAC Thunder	92	3232	2642	3837	3237	3937
Galley (HR 110)	92	2579	2214	3454	2749	3490
Stingray	93	2670	2730	3775	3058	3738
Beacon	94	2744	2840	3865	3150	3669
T9905	95	2369	2649	3847	2955	4195
OAC Gryphon	95	3054	2586	3622	3087	3726
AC Mast	95	2472	2666	3449	2862	3649
AC Trident	95	2698	2183	3742	2874	3558
AC Cruiser	95	2794	2287	3779	2953	3716
OAC Silvercreek	95	2700	2073	3447	2740	3673
OAC REX	96	2581	2114	4030	2908	3910
Vista	96	2616	2558	3535	2903	3794
Nautica	96	2966	2582	3113	2887	3896
Scepter	98	2943	2561	3574	3026	4039
AVERAGE		2668	2511	3626	2946	3747

2003 - 2005 ST THOMAS WHITE BEAN PERFORMANCE TRIAL						
Yield kg/ha						
Cultivar	Days to Maturity Full/mid Season Area				3 YEAR AVERAGE	
		2005	2004	2003	ST THOMAS	FULL/MID SEASON AREA(1)
Cirrus	88	3978	3105	3701	3595	3265
Kippen (HR 100)	89	3670				
AC Compass	90	4465	3003	4277	3915	3698
OAC Thunder	92	4420	3679	4876	4325	3937
Galley (HR 110)	92	4350	3067	4126	3848	3490
Stingray	93	4567	3905	4410	4294	3738
Beacon	94	4828	3023	4031	3961	3669
T9905	95	5364	3950	5301	4872	4195
AC Mast	95	3927	3783	4499	4070	3649
OAC Silvercreek	95	4821	3265	4471	4186	3673
OAC Gryphon	95	4110	3397	4037	3848	3726
AC Cruiser	95	4315	3281	4352	3983	3716
AC Trident	95	4210	3104	4139	3818	3558
OAC REX	96	4960	3520	4884	4455	3910
Vista	96	4810	3347	4496	4218	3794
Nautica	96	4858	4246	4716	4607	3896
Scepter	98	5234	3662	5085	4660	4039
Average		4523	3459	4463	4148	3747

1. Yield and days to maturity are based on the mean of 8 trials at 3 locations (Kippen, St. Thomas and Granton) over 3 years (2003–2005)

2003 - 2005 GRANTON WHITE BEAN PERFORMANCE TRIAL					
Yield kg/ha					
Cultivar	Days to Maturity Full/mid Season Area (1)	2005	2003	GRANTON 2003, 2005 2 YR AVG	FULL/MID SEASON AREA(1)
Cirrus	88	3542	3709	3626	3265
Kippen (HR 100)	89	4145	3880	4013	
AC Compass	90	4482	4215	4349	3698
OAC Thunder	92	4615	4195	4405	3937
Galley (HR 110)	92	4434	3693	4064	3490
Stingray	93	4049	3795	3922	3738
Beacon	94	4287	3732	4010	3669
T9905	95	5009	5070	5040	4195
OAC Gryphon	95	5274	3725	4500	3726
AC Mast	95	4567	3824	4196	3649
AC Trident	95	4605	3783	4194	3558
AC Cruiser	95	4459	4463	4461	3716
OAC Silvercreek	95	4468	4142	4305	3673
OAC REX	96	4529	4664	4597	3910
Vista	96	4752	4246	4499	3794
Nautica	96	4206	4454	4330	3896
Scepter	98	4946	4304	4625	4039
AVERAGE		4492	4111	4302	3747

1. Yield and days to maturity are based on the mean of 8 trials at 3 locations (Kippen, St. Thomas and Granton) over 3 years (2003–2005)