
INFOSheet

Ministry of Agriculture, Food and Rural Affairs
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2008 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	Days to Maturity	Yield ⁴ (t/ha)	Variety ³	Days to Maturity	Yield ⁴ (t/ha)
AC Compass	89	3.80	AC Compass	91	2.82
Galley	92	3.81	Kippen	92	2.40
OAC Thunder	93	3.96	T9903*	94	2.70
AC Mast	94	3.78	AC Cruiser	97	2.87
AC Cruiser	94	3.83	OAC Thunder	98	3.06
T9905	95	4.14	AC Mast	99	3.00
Nautica	95	3.92	AC Trident	101	2.79
OAC Silvercreek	95	3.71	OAC Gryphon	102	3.07
OAC Gryphon	96	3.97	Nautica	103	2.97
AC Trident	96	3.77	OAC Rex	103	2.75
Vista	96	3.97			
Reliant	96	4.25			
Viscount	98	4.07			
OAC Rex	98	3.88			
GTS 544*	100	3.69			
Scepter	101	4.04			

¹ Yield and days to maturity are based on the mean of 8 trials at 4 locations (Kippen, St. Thomas, Kemptville and Granton) over 3 years (2005–2007). 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 Kippen) over 3 years (2005–2007). 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.

* Yield and maturity data for GTS 544 and T9903 are from 2006 and 2007 only.

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

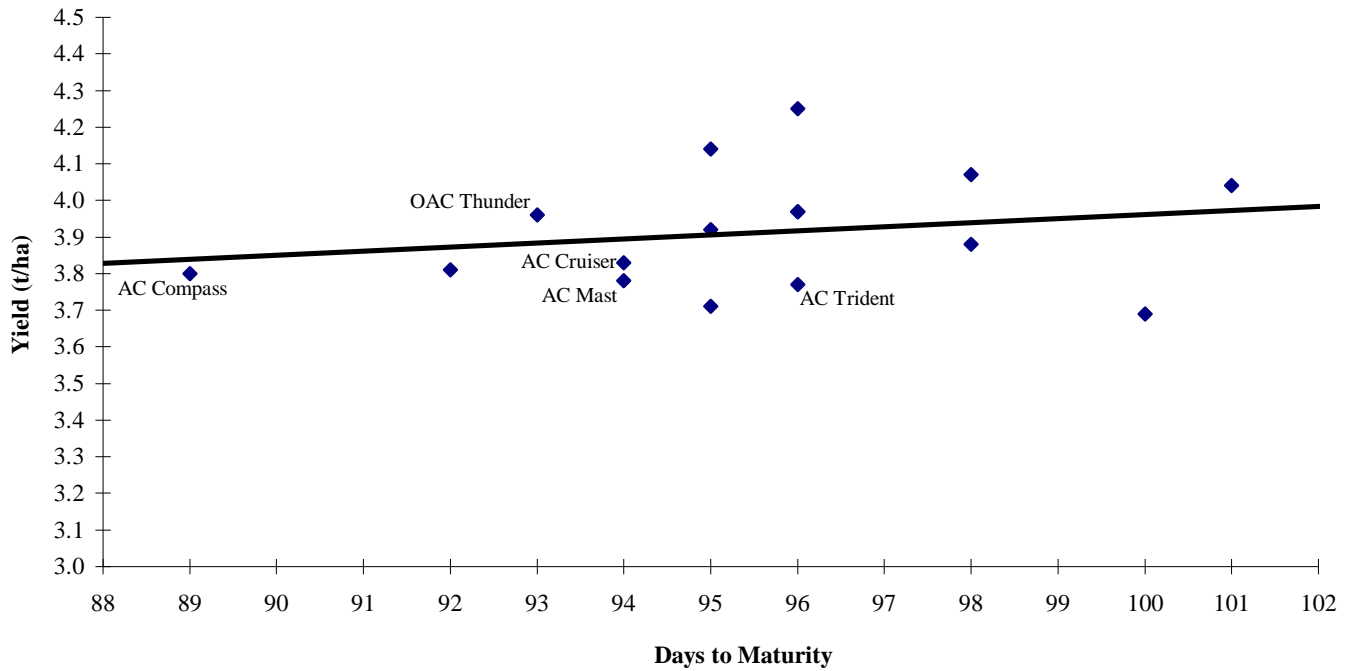


FIGURE 2. Yield vs. Maturity for Short Season Areas (Regression Chart)

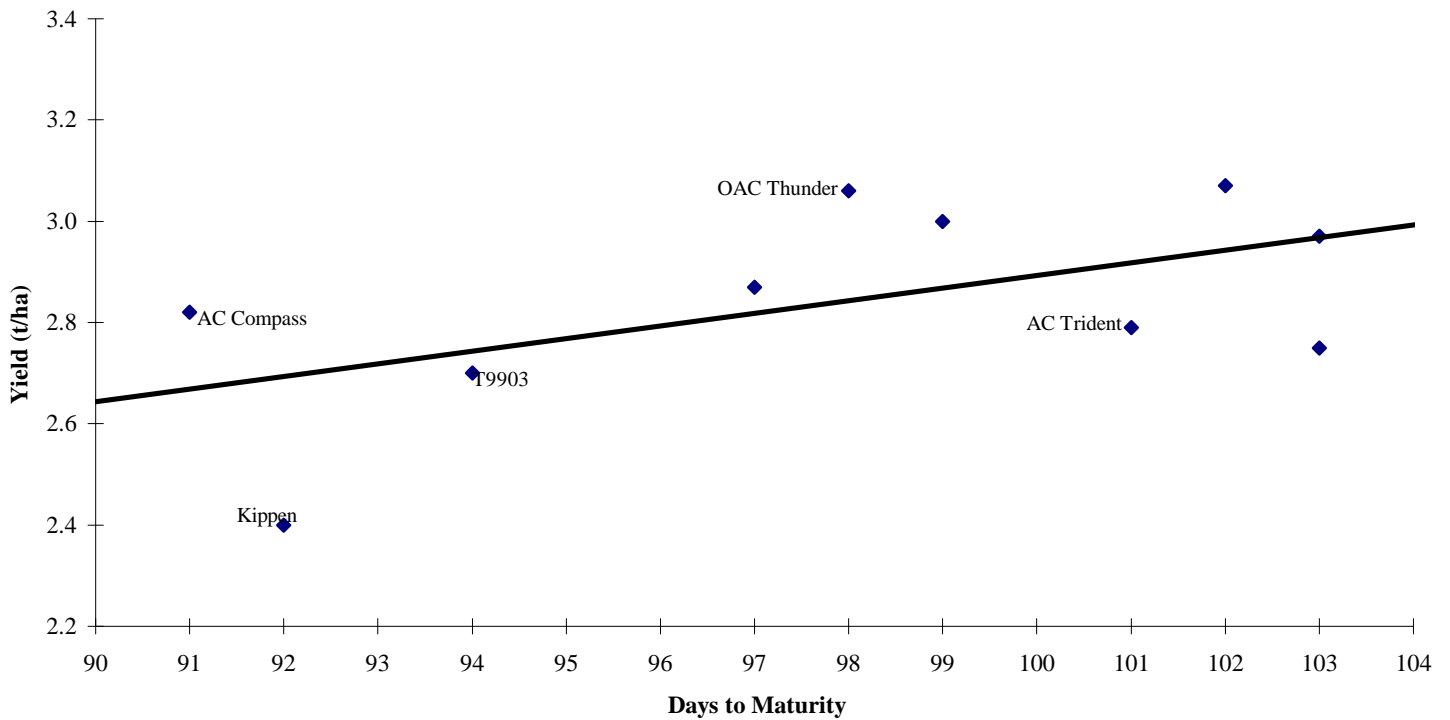


TABLE 2. White Bean Characteristics and Distributors

Variety	100 Seed Weight (g)	Disease Reaction ¹					Suitability for Direct Harvest ⁴	Distributor
		Bean Common		Anthracnose ²				
		Mosaic Virus		Race 17	Race 23	White Mould ³		
		Race 1	Race 15					
AC Compass	22.9	R	R	S	S	2.8	3.0	Cooks
Galley	22.5	R	R	S	S	2.7	3.3	Advantage
T9903	22.7	R	R	R	R	NA	3.4	Hyland
Kippen	18.9	R	R	S	S	2.7	3.6	Advantage
OAC Thunder	23.1	R	R	S	S	2.6	3.3	SeCan Association
AC Cruiser	21.4	R	R	S	S	2.8	3.4	Hensall District Co-op
AC Mast	22.3	R	R	S	S	2.4	3.4	Advantage
AC Trident	21.5	R	R	S	S	2.5	3.1	Great Canadian Bean
OAC Silvercreek	22.2	R	R	R	R	2.4	3.7	SeCan Association
OAC Gryphon	20.8	R	R	R	R	2.6	3.8	Public Variety
T9905	23.9	R	R	R	R	2.7	3.4	Hyland
OAC Rex*	21.4	R	R	S	S	2.3	3.2	Great Canadian Bean
GTS 544	21.3	R	R	NA	R	NA	3.1	Cooks, Hyland, Hensall DC
Scepter	27.3	R	R	R	R	2.5	3.7	Cooks, Hyland, Hensall DC
Nautica	19.8	R	R	S	S	2.3	2.5	Secan Assoc.
Reliant	20.8	R	R	NA	NA	2.8	3.4	Cooks, Hyland, Hensall DC
Viscount	21.1	R	R	NA	NA	3.0	3.4	Cooks, Hyland, Hensall DC
Vista	20.7	R	R	R	R	2.5	3.4	Cooks, Hyland, Hensall DC

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 Granton, St. Thomas and Winchester in 2004, and Elora, St. Thomas and Winchester in 2006. NA = Not Available (due to a lack of data).

⁴ A variety's suitability of 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.

2005-2007 Kippen White Bean Performance Trial						
Variety	Days to Maturity*	Yield (kg/ha)				
		2007	2006	2005	3 Year Average	
					Kippen	All Locations*
AC Compass	89	2898	4086	2413	3133	3804
Galley	92	2875	4157	2579	3203	3805
Kippen	92	2930	3688	2153	2924	
OAC Thunder	93	3820	4248	3232	3766	3964
T9903	94	2799	3762		3281	
AC Mast	94	3822	3933	2472	3409	3783
AC Cruiser	94	3681	3962	2794	3479	3830
T9905	95	3287	3866	2369	3174	4139
Nautica	95	3479	4108	2996	3528	3921
OAC Silvercreek	95	3244	4151	2700	3365	3712
OAC Gryphon	96	3691	4521	3054	3755	3971
AC Trident	96	2899	3850	2698	3149	3770
Vista	96	3363	4134	2616	3371	3966
GTS 554	96	3548	4392	2654	3531	4245
GTS 557	98	3217	4262	2989	3489	4074
OAC Rex	98	2933	4025	2581	3180	3881
GTS 544	100	3531	3997		3764	
Scepter	101	3255	4497	2943	3565	4037
AVERAGE	95	3293	4091	2703	3393	3927

* - Data in these columns are based on the mean of 8 trials at 4 locations (Granton, St. Thomas, Kemptville and Kippen) over 3 years (2005-2007)

2005-2007 Kemptville White Bean Performance Trial						
Variety	Days to Maturity*	Yield (kg/ha)				
		2007	2006	2005	3 Year Average	
					Kemptville	All Locations*
AC Compass	89		4079	4346	4213	3804
Galley	92		3740	4166	3953	3805
OAC Thunder	93		3742	4234	3988	3964
AC Mast	94		3555	4244	3899	3783
AC Cruiser	94		3913	3968	3941	3830
T9905	95		4132	4487	4310	4139
Nautica	95		3736	4317	4027	3921
OAC Silvercreek	95		2520	3763	3141	3712
OAC Gryphon	96		3397	4269	3833	3971
AC Trident	96		3536	4193	3864	3770
Vista	96		4098	4606	4352	3966
GTS 554	96		3946	5149	4548	4245
GTS 557	98		3814	4937	4376	4074
OAC Rex	98		4171	4044	4107	3881
GTS 544	100		2939			3499
Scepter	101		3665	4419	4042	4037
AVERAGE	95		3686	4343	4040	3900

* - Data in these columns are based on the mean of 8 trials at 4 locations (Granton, St. Thomas, Kemptville and Kippen) over 3 years (2005-2007)

2005-2007 Granton White Bean Performance Trial						
Variety	Days to Maturity*	Yield (kg/ha)				
		2007	2006	2005	3 Year Average	
					Granton	All Locations*
AC Compass	89		3661	4482	4072	3804
Galley	92		4139	4434	4287	3805
Kippen	92			4145		
OAC Thunder	93		3398	4615	4007	3964
AC Mast	94		3743	4567	4155	3783
AC Cruiser	94		3551	4459	4005	3830
T9905	95		4594	5009	4802	4139
Nautica	95		3664	4206	3935	3921
OAC Silvercreek	95		4033	4468	4250	3712
OAC Gryphon	96		3452	5274	4363	3971
AC Trident	96		4173	4605	4389	3770
Vista	96		3346	4752	4049	3966
GTS 554	96		4298	5234	4766	4245
GTS 557	98		3941	5012	4257	4074
OAC Rex	98		3802	4529	4166	3881
GTS 544	100		3527			3499
Scepter	101		3335	4946	4140	4037
AVERAGE	95		3791	4671	4243	3900

* - Data in these columns are based on the mean of 8 trials at 4 locations (Granton, St. Thomas, Kemptville and Kippen) over 3 years (2005-2007)

2005-2007 Elora White Bean Performance Trial						
Variety	Days to Maturity*	Yield (kg/ha)				
		2007	2006	2005	3 Year Average	
					Elora	All Locations*
AC Compass	91	2003	3248	2714	2655	2820
Kippen	92	1606	2081	2519	2069	2398
Galley	92		1820	2708	2264	
T9903	94	2573	2648		2611	2701
GTS 554	97	2659			2659	
AC Cruiser	97	1963	3015	2848	2609	2872
OAC Thunder	98	2349	3006	2651	2669	3060
AC Mast	99	2807	3106	2779	2897	2998
GTS 544	100	2395			2395	
AC Trident	101	2220	3383	2913	2839	2789
OAC Gryphon	102	2776	2599	2936	2770	3068
Nautica	103	1981	3466	3029	2825	2974
OAC Rex	103	2131	3064	2677	2624	2752
AVERAGE	98	2289	2858	2777	2607	2843

* - Data in these columns are based on the mean of 7 trials at 3 locations (Kippen, Elora and Brussels) over 3 years (2005-2007)

2005-2007 St. Thomas White Bean Performance Trial					
Variety	Days to Maturity*	Yield (kg/ha)			3 Year Average All Locations*
		2007	2006	2005	
AC Compass	89			4465	3804
Galley	92			4350	3805
OAC Thunder	93			4420	3964
AC Mast	94			3927	3783
AC Cruiser	94			4315	3830
T9905	95			5364	4139
Nautica	95			4858	3921
OAC Silvercreek	95			4821	3712
OAC Gryphon	96			4110	3971
AC Trident	96			4210	3770
Vista	96			4810	3966
GTS 554	96			4739	4245
GTS 557	98			4419	4074
OAC Rex	98			4960	3881
Scepter	101			5234	4037
AVERAGE	95			4600	3927

* - Data in these columns are based on the mean of 8 trials at 4 locations (Granton, St. Thomas, Kemptville and Kippen) over 3 years (2005-2007)

2005-2007 Brussels White Bean Performance Trial					
Variety	Days to Maturity*	Yield (kg/ha)			3 Year Average All Locations*
		2007	2006	2005	
AC Compass	91	2378			2820
Kippen	92	1807			2398
T9903	94	1721			2701
GTS 554	97	1930			
AC Cruiser	97	1841			2872
OAC Thunder	98	2117			3060
AC Mast	99	2069			2998
GTS 544	100	1981			
AC Trident	101	1558			2789
OAC Gryphon	102	1901			3068
Nautica	103	1757			2974
OAC Rex	103	1850			2752
AVERAGE	98	1909			2843

* - Data in these columns are based on the mean of 7 trials at 3 locations (Kippen, Elora and Brussels) over 3 years (2005-2007)

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	89	2.60	56.4	S	S	S	S	ADM A.S.I.
Etna ⁵	cranberry	93	3.29	57.8	R	R	S	S	Cooks
Hooter	cranberry	100	3.03	61.5	R	R	S	S	Cooks
Red Hawk	dark red kidney	93	2.84	52.1	R	R	R	R	Hyland Seeds
Montcalm	dark red kidney	99	2.60	52.7	R	R	R	S	Public
AC Calmont	dark red kidney	99	2.84	53.6	R	R	R	R	G.C.B.C.
Majesty	dark red kidney	96	2.96	66.4	R	R	R	S	Hensall District Co-op
AC Elk	light red kidney	89	2.66	56.4	R	S	R	S	Public Variety
Pink Panther ⁶	light red kidney	92	2.71	59.2	R	R	R	S	Cooks
AC Litekid	light red kidney	104	2.77	52.3	R	R	R	S	Public Variety
Red Kanner	light red kidney	103	3.10	53.4	R	R	S	S	Hyland Seeds

¹ Yields, maturities and seed weights are based on the means of 11 trials at 4 locations (Kippen, Monkton, St. Thomas and Thorndale) over 3 years (2004-2006).

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.

⁵ Etna maturity, yield and seed weight are calculated using 2006 and 2007 data only.

⁶ Pink Panther maturity, yield and seed weight are calculated using 2007 data only.

2005-2007 Kippen Major Coloured Bean Performance Trial

Variety	Type	Days to Maturity*	Yield kg/ha				
			2007	2006	2005	3 Year Average	
						Kippen	All Locations*
Montcalm	DRK	99	2431	2705	1507	2214	2597
AC Calmont	DRK	99	2664	2914	1764	2447	2837
Red Hawk	DRK	93	2641	2711	1757	2369	2839
Majesty	DRK	96	3106	2817	2101	2675	2957
AVERAGE	--		2710	2787	1782	2426	2808
AC Litekid	LRK	104	3104	2775	987	2289	2765
AC Elk	LRK	89	2431	2451	1421	2101	2662
Red Kanner	LRK	103	3052	3419	2059	2844	3101
Pink Panther	LRK	92	2619				
AVERAGE	--		2801	2882	1489	2391	2842
SVM Taylor	Cran	89	2630	2470	1446	2182	2604
Hooter	Cran	100	3053	3114	1852	2673	3028
Etna	Cran	93	2648	2732			
AVERAGE	--		2777	2772	1649	2399	2822

* - Data in these columns are based on the mean of 9 trials at 4 locations (Monkton, Thorndale, St. Thomas and Kippen) over 3 years (2005-2007)

2005-2007 Thorndale Major Coloured Bean Performance Trial

Variety	Type	Days to Maturity*	Yield kg/ha				
			2007	2006	2005	3 Year Average	
						Thorndale	All Locations*
Montcalm	DRK	99	2040	3082	1793	2305	2597
AC Calmont	DRK	99	2184	3383	2157	2575	2837
Red Hawk	DRK	93	2455	3398	2175	2676	2839
Majesty	DRK	96	2672	3245	2529	2815	2957
AVERAGE	--		2338	3277	2164	2593	2808
AC Litekid	LRK	104	2115	3260	1629	2335	2765
AC Elk	LRK	89	2791	2978	1933	2567	2662
Red Kanner	LRK	103	2291	3676	2480	2816	3101
Pink Panther	LRK	92	2808				
AVERAGE	--		2501	3305	2014	2607	2842
SVM Taylor	Cran	89	2572	3070	2062	2568	2604
Hooter	Cran	100	2915	3302	1960	2726	3028
Etna	Cran	93	2984	3594			
AVERAGE	--		2824	3322	2011	2719	2822

* - Data in these columns are based on the mean of 9 trials at 4 locations (Monkton, Thorndale, St. Thomas and Kippen) over 3 years (2005-2007)

2005-2007 St. Thomas Major Coloured Bean Performance Trial							
Variety	Type	Days to Maturity*	Yield kg/ha				
			2007	2006	2005	3 Year Average	
						St. Thomas	All Locations*
Montcalm	DRK	99		2765	3669	3217	2597
AC Calmont	DRK	99		2711	4213	3462	2837
Red Hawk	DRK	93		3221	3511	3366	2839
Majesty	DRK	96		2824	3752	3288	2957
AVERAGE	--			2880	3786	3333	2808
AC Litekid	LRK	104		2883	4504	3694	2765
AC Elk	LRK	89		2984	3419	3202	2662
Red Kanner	LRK	103		2514	4464	3489	3101
Pink Panther	LRK	92					
AVERAGE	--			2794	4129	3461	2842
SVM Taylor	Cran	89		3082	2898	2990	2604
Hooter	Cran	100		2408	4277	3343	3028
Etna	Cran	93		3654			
AVERAGE	--			3048	3588	3318	2822

* - Data in these columns are based on the mean of 9 trials at 4 locations (Monkton, Thorndale, St. Thomas and Kippen) over 3 years (2005-2007)

2005-2007 Monkton Major Coloured Bean Performance Trial						
Variety	Type	Days to Maturity*	Yield kg/ha			
			2007	2006	2005	3 Year Average
						All Locations*
Montcalm	DRK	99		3379		2597
AC Calmont	DRK	99		3542		2837
Red Hawk	DRK	93		3686		2839
Majesty	DRK	96		3569		2957
AVERAGE	--			3544		2808
AC Litekid	LRK	104		3625		2765
AC Elk	LRK	89		3553		2662
Red Kanner	LRK	103		3950		3101
Pink Panther	LRK	92				
AVERAGE	--			3709		2842
SVM Taylor	Cran	89		3209		2604
Hooter	Cran	100		4372		3028
Etna	Cran	93		4099		
AVERAGE	--			3893		2822

* - Data in these columns are based on the mean of 9 trials at 4 locations (Monkton, Thorndale, St. Thomas and Kippen) over 3 years (2005-2007)

TABLE 4. Minor Coloured Bean Variety Performance

Variety	Market Class	Days to Maturity ¹	Yield ^{1,3} (t/ha)	100 Seed Weight ¹ (g)	Disease Reaction ²				Distributor
					Bean Common				
					Mosaic Virus	Anthracnose ⁴			
Race 1	Race 15	Race 17	Race 23						
AC Harblack	Black	95	3.31	21.0	R	R	S	R	SeCan Assoc.
Blackjack	Black	98	3.57	24.0	R	R	R	R	Cooks, Hyland, Hensall DC
Harohawk	Black	100	3.57	22.5	R	R	S	R	SeCan Assoc.
GTS 401	White Kidney	102	3.35	47.0	R	R	R	S	Cooks, Hyland, Hensall DC

¹ Yields, maturities and seed weights are based on the means of 6 trials at 3 locations (Kippen, Thorndale and St. Thomas) over 3 years (2004-2006).

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.

2005-2007 Kippen Minor Coloured Bean Performance Trial							
Variety	Type	Days to Maturity*	Yield kg/ha				
			3 Year Average				
			2007	2006	2005	Kippen	All Locations*
AC Harblack	black	93	2818	3137	2590	2848	3246
Blackjack	black	94	3233	3223	3090	3182	3445
Harohawk	black	97	2819	3482	3128	3143	3521
GTS 401	WK	98	3353	3183	2550	3029	3295
Average	--	95	3056	3256	2840	3050	3377

* - Data in these columns are based on the mean of 6 trials at 2 locations (St. Thomas and Kippen) over 3 years (2005-2007)

2005-2007 St Thomas Minor Coloured Bean Performance Trial							
Variety	Type	Days to Maturity*	Yield kg/ha				
			3 Year Average				
			2007	2006	2005	St Thomas	All Locations*
AC Harblack	black	93	3225	2740	4966	3644	3246
Blackjack	black	94	2847	3304	4972	3708	3445
Harohawk	black	97	3301	3731	4665	3899	3521
GTS 401	WK	98	3189	2581	4914	3561	3295
Average	--	95	3141	3089	4879	3703	3377

* - Data in these columns are based on the mean of 6 trials at 2 locations (St. Thomas and Kippen) over 3 years (2005-2007)

TABLE 5. Addresses of Distributors for Edible Bean Varieties

Advantage Seed Growers and Processors Inc. Box 351 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 250, 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