FACTSHEET

FIELD CROPS

ORDER NO. 07-xxx

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AGDEX

Ontario Ministry of Agriculture, Food and Rural Affairs

2007 PERFORMANCE TRIAL REPORT FOR DRY EDIBLE BEANS

Ontario Pulse Crop Committee

(Replaces OMAF Factsheet - *2006 Performance Trial Report for Dry Edible Beans*)

This Factsheet contains the most recent variety information for dry edible beans. The information is prepared annually by the Ontario Pulse Crop Committee and edited by OMAF.

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	90	3.56	AC Compass	98	3.38
Galley	94	3.56	OAC Thunder	99	3.19
OAC Thunder	94	3.75	Galley	99	2.92
AC Mast	95	3.59	Kippen	99	2.63
AC Cruiser	95	3.52	AC Cruiser	105	3.09
T9905	97	3.97	AC Mast	106	3.32
OAC Silvercreek	97	3.64	OAC Gryphon	106	3.10
AC Trident	97	3.55	AC Trident	107	3.23
Nautica	97	3.81	OAC Rex	109	3.11
OAC Gryphon	98	3.77			
Vista	98	3.65			
OAC Rex	99	3.65			
Scepter	102	3.88			

1 Yield and days to maturity are based on the mean of 7 trials at 3 locations (Kippen, St. Thomas and Granton) over 3 years (2004–2006). 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 6 trials at 3 locations (Brussels, Elora and Winchester) over 3 years (2004–2006). 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)

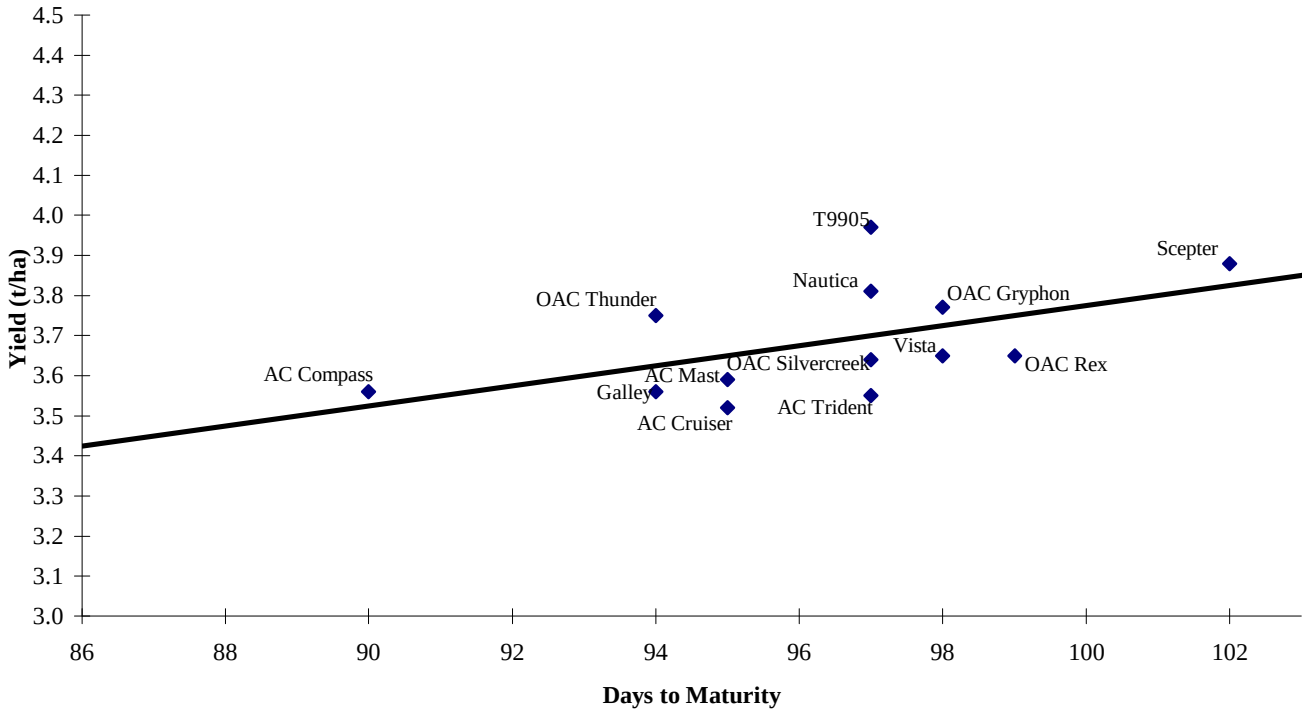

FIGURE 2. Yield vs. Maturity for Short Season Areas (Regression Chart)

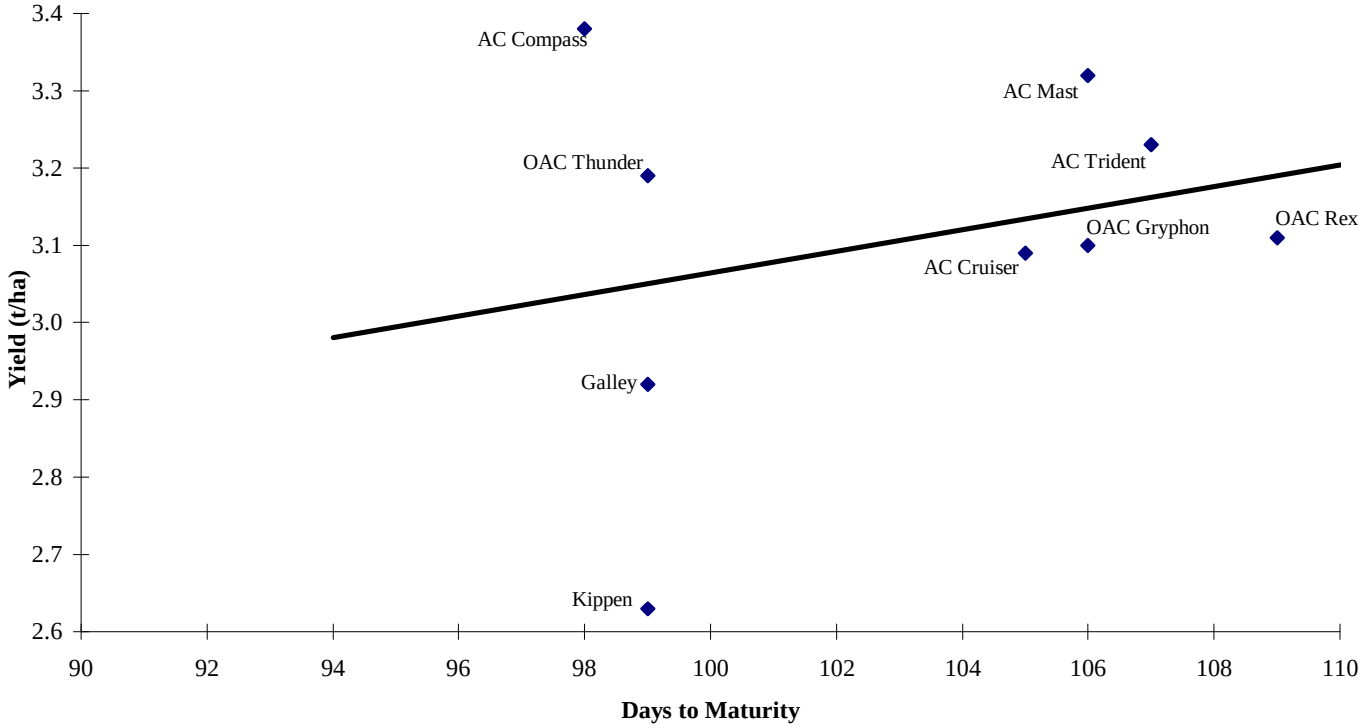

TABLE 2. White Bean Characteristics and Distributors

Variety	100 Seed Weight (g)	Disease Reaction [1]				White Mould [3]	Suitability for Direct Harvest [4]	Distributor
		Bean Common Mosaic Virus	Anthracnose[2]					
		Race 1	Race 15	Race 17	Race 23			
AC Compass	23.4	R	R	S	S	2.8	3.1	Cooks
Galley	22.6	R	R	S	S	2.7	3.2	Advantage
Kippen	19.7	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	21.5	R	R	S	S	2.8	3.2	Hensall District Co-op
AC Mast	22.9	R	R	S	S	2.4	3.6	Advantage
AC Trident	21.5	R	R	S	S	2.5	2.9	Great Canadian Bean
OAC Silvercreek	21.6	R	R	R	R	2.4	3.8	SeCan Association
OAC Gryphon	21.1	R	R	R	R	2.6	4.3	Public Variety
T9905	23.5	R	R	R	R	2.7	3.0	Hyland
OAC Rex*	22.0	R	R	S	S	2.3	3.3	Great Canadian Bean
Scepter	27.3	R	R	R	R	2.5	3.5	Cooks, Hyland, Hensall DC
Nautica	20.1	R	R	S	S	2.3	2.5	Secan Assoc.
Vista	19.9	R	R	R	R	2.5	3.3	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.

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	89	2.57	59.0	S	S	S	S	ADM A.S.I.
Etna[5]	cranberry	93	2.82	62.2	R	R	S	S	Cooks
Hooter	cranberry	101	2.85	67.2	R	R	S	S	Cooks
Red Hawk	dark red kidney	94	2.73	54.0	R	R	R	R	Hyland Seeds
Montcalm	dark red kidney	100	2.54	56.1	R	R	R	S	Public
AC Calmont	dark red kidney	100	2.87	57.7	R	R	R	R	G.C.B.C.
Majesty	dark red kidney	98	2.83	69.8	R	R	R	S	Hensall District Co-op
AC Elk	light red kidney	90	2.57	59.6	R	S	R	S	Public Variety
AC Litekid	light red kidney	104	2.73	54.3	R	R	R	S	Public Variety
Red Kanner	light red kidney	103	3.07	55.8	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 calculated by indexing to Hooter and SVM Taylor using 2001-2003 and 2006 data.

TABLE 4. Coloured Bean Variety Performance

Variety	Market Class	Days to Maturity [1]	Yield [1,3] (t/ha)	100 Seed [1] Weight (g)	Disease Reaction [2] Bean Common Mosaic Virus Race 1	Bean Common Mosaic Virus Race 15	Anthracnose [4] Race 17	Anthracnose [4] Race 23	Distributor
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.

TABLE 5. Addresses of Distributors for Edible Bean Varieties

Advantage Seed Growers and Processors Inc. Box 122; 40168 Londesborough Rd., Londesborough, Ontario N0M 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

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