

1998 REPORT

Ontario Soybean Variety Trials



Conducted in 1995 - 97

by the

Ontario Oil & Protein
Seed Crop Committee



ONTARIO OIL & PROTEIN SEED CROP COMMITTEE

This organization is made up of representatives of OMAFRA, Agriculture & Agri-Food Canada, the University of Guelph, the Ontario Seed Growers Association, the Canadian Seed Trade Association, the Ontario Soybean Growers Marketing Board and the Oilseed Crushers. Tests are conducted each year by the following co-operating agencies.

Research Centre, Harrow; Ridgetown College; Huron Research Station; University of Guelph; Kemptville College; Research Centre, Ottawa.

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INTERPRETATION OF RESULTS

HEAT UNIT RATING

Using the same crop heat unit system as for corn, each variety is given a heat unit rating based on the relative maturity of that variety in the most recent 3 years of test results. In choosing a variety you should select those varieties approximately equal to or less than the heat units available on your farm.

DAYS FROM PLANTING TO MATURITY

Maturity is affected by planting date and the area where a variety is being grown. Varieties are rated as being mature when 95% of the pods on the plants are ripe. Normally, 3-10 additional drying days are needed before the crop is dry enough for combining.

HILUM COLOUR

Each soybean seed has a hilum which is the point where it was attached to the pod. Varieties differ in hilum colour and can be either Yellow (Y), Imperfect Yellow (IY), Gray (G), Buff (Bf), Brown (Br), Black (BI), or Imperfect Black (IBI). Hilum colour may also be Light (L) or Very Light (VL). Yellow hilum soybeans are generally the only type accepted for the export market. In certain years, however, discolouration of the hilum of IY varieties can occur and as a result the soybeans may not be acceptable for export markets.

SEEDS PER KILOGRAM

This is an estimate of the relative number of seeds of a particular variety in a kilogram of seed based on a 3-year average of data from all locations where a variety was tested. Since seed size can vary from year to year and from seed lot to seed lot these figures should be used as a rough guide only. The actual seed size reported on each seed lot should be used to calculate seeding rate.

PROTEIN INDEX

This index measures the relative seed protein content among the varieties at a test location. Those varieties with a protein index above 100% have above average seed protein content on a dry matter basis, whereas, those varieties with a protein index less than 100% have below average seed protein content. A 5% difference in protein index is approximately equal to a 2% difference

in actual dry matter protein content. If a variety had a protein index of 100% and had an actual protein content of 40.0%, then a variety with a protein index of 105% would have an actual protein content of 42% and a variety with a protein index of 95% would have an actual protein content of 38%. All protein index values reported in Table 1 are averages of 2-3 years of data from all locations where a variety was tested.

YIELD INDEX

Varieties can only be compared within each test area. Yield index of a variety indicates its performance as a percentage of the average yield of all recommended varieties grown in a test area. Small index differences are not meaningful. The yield index for each location and for the average of all locations is based on 2-3 years of testing. Yield index averaged over locations and years will be a more reliable indicator of yield potential than performance from one single location.

PLANT HEIGHT

An indicator of the amount of plant growth, it is measured at maturity as the length of the stem from the base of the plant to its tip.

LODGING

A visual estimate at maturity of the standability of the crop. A value of 1 is equivalent to a crop standing completely upright while a 5 represents a crop entirely flat. Within a test area, varieties with lower values are less prone to lodging.

TESTING METHODS

In each trial, varieties were replicated in a suitable experimental design and received equal fertility, weed control and management. All trials were planted and harvested by machine.

Prior to harvest, plant height and lodging scores were obtained. The grain harvested from each plot was weighed and the yield of soybeans was calculated in tonnes/hectare at 14% moisture (13% in 1997).

Agronomic data in Tables 2 & 3 represent 2-3 year averages of individual locations as well as a 3-year average of all locations. Agronomic data in Tables 4 & 5 have been split on a soil type basis. Data from 2-3 years of testing are provided for each location as well as a 3-year average across all locations for each major soil type. Plant height and lodging values in Tables 4 & 5 are from loam soils only.

INTERPRETATION OF TABLE 1 NOTES

* Varieties with resistance to most races of the Phytophthora root rot organism in Ontario.

** Varieties with resistance to all races of the Phytophthora root rot organism in Ontario.

Phytophthora Root Rot % Plant Loss:

Three-year average in a field heavily infested with Phytophthora. Not all races of Phytophthora root rot are found at this site. Thus, the relative ranking of varieties for plant loss may differ in fields that have other races present.

2 Metribuzin herbicide should not be used on these varieties.

3 Resistant to the major races of Soybean Cyst Nematode (SCN) in Ontario.

TABLE 1. SOYBEAN VARIETY RECOMMENDATIONS & DESCRIPTION

<i>Variety</i>	<i>Notes</i>	<i>Heat</i>	<i>Hilum</i>	<i>Seeds</i>	<i>Phytophthora</i>	<i>Protein</i>	<i>Distributor</i>
		<i>Unit</i>		<i>per</i>	<i>Root Rot %</i>	<i>Index</i>	
		<i>Rating</i>	<i>Colour</i>	<i>Kilogram</i>	<i>Plant Loss</i>	<i>%</i>	
Gentleman		2375	BR	5800	6	105	Semican Atlantic Inc.
Alta		2400	IY	5000	14	94	First Line Seeds Ltd.
Klaxon		2400	GR	6100	12	99	Semican Atlantic Inc.
AC Harmony		2450	BR	6500	15	93	SeCan Members
Corona		2450	BR	6000	5	99	Hyland Seeds
OAC Salem		2450	IY	5400	7	103	Agrocentre Belcan Inc.
PS32		2450	BR	6100	14	95	Pride Brand Seeds
Aquilon		2500	BL	4900	9	101	Advantage Seed Grow&Proc
Fiston		2500	BR	6700	10	97	Semences Laquerre Inc.
HS 2688		2525	BR	5100	9	100	GROWMARK Inc.
Medallion		2525	BR	5600	16	98	Heartland Seeds
S 00-55	*	2525	Y	5600	7	97	Novartis Seeds Inc.
York		2525	IY	5200	9	100	First Line Seeds Ltd.
Quest		2550	BR	4700	10	107	Hyland Seeds
S 00-66		2550	BR	5300	5	97	Novartis Seeds Inc.
HS 2689		2575	BR	5400	7	95	GROWMARK Inc.
Maple Glen		2575	IY	5000	15	103	SeCan Members
022		2575	BR	5800	14	98	Mycogen Canada
AC Hercule		2625	BR	5300	6	115	Cooperative Federee Queb
HS 2578		2625	Y	5200	13	101	GROWMARK Inc.
Korada		2625	IY	5500	7	101	First Line Seeds Ltd.
OAC Wingham		2625	BR	6100	15	98	SeCan Members
OAC Atwood		2650	Y	5700	15	101	Advantage Seed Grow&Proc
PS42		2650	LBF	5100	7	101	Pride Brand Seeds
KG41	*	2675	Y	5400	5	99	Pride Brand Seeds
OAC Millennium		2675	BR	6200	8	95	PRO Seeds of Canada
Achiever		2700	Y	5200	9	99	Mapleseed Inc.
Grand		2700	BR	3900	19	105	Hyland Seeds
S 03-C3		2700	IY	5000	9	103	Novartis Seeds Inc.
Beck		2725	BR	5000	18	97	First Line Seeds Ltd.
OAC Arthur		2725	Y	5200	8	101	Advantage Seed Grow&Proc
OAC Bayfield		2725	BR	5000	9	99	SeCan Members
OAC Brussels		2725	BR	5000	10	98	SeCan Members
AC Bravor	*	2750	BR	5400	8	99	First Line Seeds Ltd.
Enterprise		2750	VLBR	5300	7	100	Hyland Seeds
HS 2778	2	2750	LBR	5400	10	102	GROWMARK Inc.
OAC Embro		2750	BR	5100	5	100	Heartland Seeds
S 07-57		2750	BR	5600	8	100	Novartis Seeds Inc.
Trooper		2750	LBR	5200	13	101	Hyland Seeds
Maverick		2775	LBR	4900	4	102	Hyland Seeds
OAC Auburn		2775	LBR	5100	17	99	Advantage Seed Grow&Proc
PS50		2775	BR	5000	5	100	Pride Brand Seeds
9063		2775	GR	5500	4	97	Pioneer Hi-Bred Ltd.
9071		2775	Y	6300	8	93	Pioneer Hi-Bred Ltd.
MS0747		2800	BR	5300	10	101	Mapleseed Inc.
OAC Eclipse	*	2800	BR	5200	7	98	SeCan Members
Bounty	2	2825	Y	5400	15	102	Hyland Seeds
AP1394	*	2850	GR	6000	6	102	Mapleseed Inc.
HS 2888	*	2850	GR	5500	20	104	GROWMARK Inc.
PS63		2850	LBF	6100	18	100	Pride Brand Seeds
S 08-80		2850	Y	4800	6	100	Novartis Seeds Inc.
Sentry		2850	LBR	5400	5	101	Hyland Seeds
A0756		2875	BL	5400	7	105	Cargill Hybrid Seeds
A1139	**	2875	IBL	6100	5	100	Cargill Hybrid Seeds
Marathon		2875	Y	5200	10	101	Hyland Seeds
M-080	**	2875	BR	5400	7	99	Mycogen Canada
OAC Dorado		2875	BR	5400	11	99	SeCan Members
OAC Exeter		2875	Y	5000	4	105	First Line Seeds Ltd.
RCAT Bobcat		2875	IY	5400	6	97	SeCan Members
Telstar		2875	BR	5800	9	101	Hyland Seeds
Arva		2900	Y	5300	10	99	Advantage Seed Grow&Proc
CX145		2900	BL	6400	15	106	DEKALB Canada Inc.
PRO 280	2	2900	BR	5500	6	98	PRO Seeds of Canada
T8902		2900	Y	5500	7	98	Hyland Seeds
9132	*	2900	BL	5800	6	98	Pioneer Hi-Bred Ltd.
HS 2988		2925	BR	5500	15	97	GROWMARK Inc.

TABLE 1. SOYBEAN VARIETY RECOMMENDATIONS & DESCRIPTION (Cont.)

<i>Variety</i>	<i>Notes</i>	<i>Heat</i>	<i>Hilum</i>	<i>Seeds</i>	<i>Phytophthora</i>	<i>Protein</i>	<i>Distributor</i>
		<i>Unit Rating</i>	<i>Colour</i>	<i>per Kilogram</i>	<i>Root Rot % Plant Loss</i>	<i>Index %</i>	
KG62		2925	Y	5700	12	100	Pride Brand Seeds
S 12-49	*	2925	GR	5200	8	98	Novartis Seeds Inc.
140	**	2925	BR	5900	3	101	Mycogen Canada
CM 1070		2950	BL	5800	8	101	C&M Seeds
MS1855		2950	BL	5700	12	100	Mapleseed Inc.
OAC Bright		2950	Y	5700	5	99	First Line Seeds Ltd.
S 14-H4		2950	BL	4800	2	98	Novartis Seeds Inc.
S 15-20	*	2950	IY	5200	3	100	Novartis Seeds Inc.
9163	*	2950	Y	6700	2	96	Pioneer Hi-Bred Ltd.
CX173	*	2975	BL	7600	7	99	DEKALB Canada Inc.
OAC Shire		2975	BL	6000	5	103	SeCan Members
API876	**	3000	BL	5700	4	98	Mapleseed Inc.
A1875	**	3000	BR	5300	3	100	Cargill Hybrid Seeds
M-210		3000	Y	6100	17	99	Mycogen Canada
RS1493	**	3000	BL	5200	6	108	Renk Seed/Mapleseed
T8508		3000	BR	5400	9	98	Hyland Seeds
Blackjack 21		3025	BL	6100	6	100	Southwest Seeds
S 19-90	*	3025	GR	5300	4	101	Novartis Seeds Inc.
S 20-20	*	3025	Y	5800	4	99	Novartis Seeds Inc.
Zest		3025	LBR	6100	11	101	Hyland Seeds
A1923	**	3050	BL	5800	4	100	Cargill Hybrid Seeds
S 18-11	3	3050	BL	4800	7	105	Novartis Seeds Inc.
Sterling		3050	Y	6700	20	100	Hyland Seeds
Stine 2500		3050	IY	6300	10	103	Advantage Seed Grow&Proc
Tornado		3050	Y	5400	8	105	Hyland Seeds
Westag 97		3050	BF	5500	9	98	SeCan Members
CM 9403		3075	BF	5300	6	101	C&M Seeds
DB1926	*	3075	BR	5100	10	100	Advantage Seed Grow&Proc
HS 3168		3075	BF	5800	9	103	GROWMARK Inc.
OAC Glencoe		3075	BR	6000	7	93	SeCan Members
S 20-91	*	3075	GR	5100	7	99	Novartis Seeds Inc.
9234	3	3075	BR	6400	9	99	Pioneer Hi-Bred Ltd.
Ayr		3100	BL	5400	7	97	Advantage Seed Grow&Proc
CX232		3100	BR	6100	10	101	DEKALB Canada Inc.
Fraser		3100	BR	4700	5	106	Hyland Seeds
Hammer	3	3100	BR	7200	5	104	Hyland Seeds
Nankino		3100	IBL	6400	6	100	Hyland Seeds
Nemecys 19	**3	3100	BL	5700	6	111	First Line Seeds Ltd.
PS83		3100	Y	6100	23	102	Pride Brand Seeds
PS85		3100	BL	5800	11	103	Pride Brand Seeds
CX228	*	3125	IBL	6300	5	97	DEKALB Canada Inc.
CX229	*	3125	GR	6100	4	100	DEKALB Canada Inc.
Kenwood 94	**	3125	BL	6600	2	100	SeCan Members
S 24-12	*	3125	Y	5600	5	101	Novartis Seeds Inc.
S 24-92		3125	BL	6400	6	101	Novartis Seeds Inc.
RCAT Angora		3150	Y	6400	5	96	SeCan Members
9242		3150	BR	5700	7	101	Pioneer Hi-Bred Ltd.
A2615	**	3175	IBL	6100	4	101	Cargill Hybrid Seeds
J-251		3175	BR	6200	4	101	Mycogen Canada
KG92		3175	Y	5900	6	95	Pride Brand Seeds
9244		3175	Y	6400	9	97	Pioneer Hi-Bred Ltd.
A2242	**	3200	GR	7300	2	100	Cargill Hybrid Seeds
A2553	**	3200	IBL	6500	3	96	Cargill Hybrid Seeds
TS255		3200	BR	6400	11	100	Terra International
9281	**	3200	BL	6700	4	100	Pioneer Hi-Bred Ltd.
AP2588		3225	Y	5200	10	100	Mapleseed Inc.
A2540	3	3225	BF	7400	7	103	Cargill Hybrid Seeds
Hallmark		3225	BL	6100	10	100	Heartland Seeds
Hanlon		3250	IBL	6100	12	96	First Line Seeds Ltd.
RCAT Calico		3250	Y	5900	13	104	SeCan Members
RCAT Columbus		3250	BL	6000	6	100	Ferguson Seeds
T5282		3250	IBL	5800	11	98	Terra International
9305	**	3250	Y	5900	3	99	Pioneer Hi-Bred Ltd.
Nemecys 28	**3	3275	BL	6600	5	101	First Line Seeds Ltd.

TABLE 2. AGRONOMIC DATA 2500 - 2800 HEAT UNIT AREAS

<i>Variety</i>	<i>Days to Mature</i>	<i>Yield Index (%)</i>					<i>Plant Height (cm)</i>	<i>Lodging 1=Standing 5 = Flat</i>
		<i>Brussels</i>	<i>Elora</i>	<i>Ottawa</i>	<i>Winchester</i>	<i>Average</i>		
Gentleman	105	81	88	87	93	87	69	1.9
Alta	106	87	82	87	91	87	75	1.5
Klaxon	106	75	82	87	90	84	68	1.7
AC Harmony	108	93	98	92	93	93	70	1.3
Corona	108	89	95	89	88	90	77	2.0
OAC Salem	108	94	86	98	94	94	70	1.6
PS32	108	96	91	96	89	93	73	1.4
Aquilon	110	93	94	95	98	95	78	2.1
Fiston	110	90	84	99	92	92	76	1.6
HS 2688	111	93	98	97	97	96	68	1.4
Medallion	111	87	93	89	95	91	71	1.7
S 00-55	111	96	89	97	99	96	62	1.3
York	111	99	94	102	98	99	80	1.9
Quest	112	93	97	90	96	93	70	1.5
S 00-66	112	102	94	101	102	100	78	1.3
HS 2689	113	105	97	99	101	101	76	1.7
Maple Glen	113	102	99	104	93	99	71	1.4
022	113	98	104	91	96	96	78	1.6
AC Hercule	115	83	77	92	92	87	83	1.7
HS 2578	115	99	102	100	98	99	86	2.0
Korada	115	107	108	109	101	106	69	1.2
OAC Wingham	115	109	104	109	103	107	71	1.4
OAC Atwood	116	108	114	93	107	104	72	1.6
PS42	116	99	103	103	104	102	73	1.6
KG41	117	101	102	112	101	104	76	1.1
OAC Millennium	117	107	104	116	111	111	74	1.1
Achiever	118	106	110	110	108	108	88	2.2
Grand	118	103	106	100	103	103	71	1.7
S 03-C3	118	107	103	101	103	104	82	1.6
Beck	119	111	109	97	99	103	83	1.8
OAC Arthur	119	99	108	101	102	102	74	2.1
OAC Bayfield	119	115	111	108	109	111	78	1.8
OAC Brussels	119	105	111	109	106	107	70	1.3
AC Bravor	120	105	107	113	105	108	84	2.1
Enterprise	120	112	105	106	101	106	77	1.5
HS 2778	120	108	105	105	105	106	67	1.5
S 07-57	120	111	111	104	109	108	74	1.5
Trooper	120	104	101	100	96	100	75	1.5
PS50	121	111	107	94	105	104	89	2.1
9063	121	101	111	106	110	107	76	1.4
9071	121	105	108	107	112	108	79	1.8
OAC Eclipse	122	109	110	107	106	108	85	1.6
Average yield	(T/ha)	3.19	2.75	3.60	3.39	3.27		
	(bu/ac)	48.3	41.7	54.6	51.4	49.6		

Testing areas: Brussels - Average of 3 trials in 1995 1996 1997.
 Elora - Average of 2 trials in 1996 1997.
 Ottawa - Average of 3 trials in 1995 1996 1997.
 Winchester - Average of 3 trials in 1995 1996 1997.
 Average - Average of 11 trials in 1995 1996 1997.

TABLE 3. AGRONOMIC DATA 2700 - 2900 HEAT UNIT AREAS

<i>Variety</i>	<i>Days to Mature</i>	<i>Yield Index (%)</i>					<i>Plant Height (cm)</i>	<i>Lodging 1 = Standing 5 = Flat</i>
		<i>Exeter</i>	<i>St Pauls</i>	<i>Winchester</i>	<i>Woodstock</i>	<i>Average</i>		
OAC Bayfield	114	99	92	93	97	95	75	1.8
Beck	115	95	94	95	94	95	81	1.5
OAC Embro	116	95	92	105	96	97	79	1.7
Maverick	117	99	97	95	98	97	72	2.0
OAC Auburn	117	103	98	97	100	99	79	1.6
PS50	117	100	95	95	89	94	83	2.2
9071	117	92	96	100	89	94	74	1.6
MS0747	118	103	97	100	102	100	84	1.7
Bounty	119	100	95	100	94	97	75	1.2
OAC Eclipse	119	98	95	91	98	95	80	1.4
AP1394	120	99	99	105	102	101	90	1.3
HS 2888	120	101	102	97	100	100	85	1.6
PS63	120	103	94	97	98	97	87	1.7
Sentry	120	105	98	97	98	99	82	1.9
S 08-80	120	103	105	102	109	105	83	1.4
A0756	121	104	98	101	102	101	82	1.6
A1139	121	98	104	97	103	101	86	1.6
Marathon	121	92	99	98	98	97	88	2.1
M-080	121	99	103	107	102	103	85	1.2
OAC Dorado	121	102	97	93	100	98	82	1.0
OAC Exeter	121	95	97	98	105	99	77	1.6
RCAT Bobcat	121	105	106	105	105	105	83	1.4
Arva	122	102	100	107	111	105	81	1.2
CX145	122	102	100	103	101	101	77	1.3
PRO 280	122	103	104	100	103	102	82	1.4
T8902	122	96	100	98	99	99	93	2.2
9132	122	98	103	103	96	100	79	1.4
HS 2988	123	98	106	105	104	104	83	1.4
KG62	123	99	98	100	97	98	80	1.5
S 12-49	123	99	102	105	94	100	78	1.1
CM 1070	124	101	106	109	103	105	91	1.5
S 14-H4	124	105	107	107	108	107	81	1.4
OAC Shire	126	104	108	98	101	103	77	1.6
RS1493	126	102	102	94	97	99	77	1.4
T8508	126	101	104	102	103	103	89	1.5
Average yield	(T/ha)	3.68	3.70	3.38	3.47	3.55		
	(bu/ac)	55.8	56.1	51.2	52.6	53.8		

Testing areas: Exeter - Average of 2 trials in 1995 1997.
 St. Pauls - Average of 3 trials in 1995 1996 1997.
 Winchester - Average of 3 trials in 1995 1996 1997.
 Woodstock - Average of 3 trials in 1995 1996 1997.
 Average - Average of 11 trials in 1995 1996 1997.

TABLE 4. AGRONOMIC DATA 2900 - 3300 HEAT UNIT AREAS

Variety	Days to Mature	CLAY			LOAM			Plant Height (cm)	Lodging 1=Standing 5 = Flat
		Yield Index (%)							
		Dutton	Inwood	Average	Ridgetown	Talbotville	Average		
RCAT Bobcat	111	97	101	99	102	99	101	72	1.1
Telstar	111	98	104	101	98	98	98	71	1.1
140	112	97	101	99	99	102	101	75	1.2
S 15-20	113	97	99	98	93	99	96	62	1.0
9163	113	100	101	101	101	100	101	74	1.5
CX173	114	97	100	99	100	99	100	74	1.1
MS1855	114	99	100	99	96	101	99	69	1.4
OAC Bright	114	102	99	100	104	99	101	73	1.7
OAC Shire	114	100	104	102	98	89	93	65	1.1
T8508	114	97	101	99	99	100	100	72	1.3
AP1876	115	101	102	102	98	104	101	75	1.8
A1875	115	94	97	95	95	94	95	68	1.1
M-210	115	106	101	103	100	98	99	72	1.2
S 20-20	115	95	99	97	97	98	98	71	1.0
Blackjack 21	116	97	98	97	95	104	100	82	1.4
S 18-11	116	98	97	97	94	100	97	66	1.1
S 19-90	116	102	97	99	102	101	101	72	1.0
Tornado	116	104	100	102	100	100	100	68	1.1
Westag 97	116	111	101	106	103	108	106	70	1.4
A1923	117	102	103	103	106	99	102	69	1.2
CM 9403	117	100	100	100	98	102	100	68	1.7
DB1926	117	100	94	97	101	99	100	73	1.4
HS 3168	117	105	102	104	101	95	98	70	1.2
OAC Glencoe	117	102	98	100	99	100	100	86	1.2
Sterling	117	91	97	94	102	98	100	70	1.3
S 20-91	117	97	101	99	104	100	102	70	1.0
Ayr	118	98	97	98	100	100	100	75	1.7
Nemecys 19	118	95	95	95	89	95	93	70	1.1
PS85	118	100	100	100	101	100	100	74	1.4
CX228	119	105	103	104	101	100	100	79	1.1
CX229	119	101	104	102	102	107	105	70	1.3
CX232	119	104	106	105	107	99	102	67	1.2
Kenwood 94	119	108	101	104	104	99	101	80	1.8
PS83	119	93	101	97	101	104	103	79	1.5
S 24-92	119	105	102	104	107	104	105	72	1.1
9242	120	98	97	98	104	105	105	90	1.7
RCAT Angora	121	105	97	101	100	99	100	73	2.5
Average yield	(T/ha)	3.07	3.14	3.10	4.14	3.60	3.81		
	(bu/ac)	46.5	47.6	47.0	62.8	54.6	57.8		

Testing areas: Dutton - Average of 3 trials in 1995 1996 1997.

Inwood - Average of 3 trials in 1995 1996 1997.

Ridgetown - Average of 2 trials in 1995 1997.

Talbotville - Average of 3 trials in 1995 1996 1997.

CLAY - Average of 6 trials in 1995 1996 1997.

LOAM - Average of 5 trials in 1995 1996 1997.

TABLE 5. AGRONOMIC DATA 3300 - 3500 HEAT UNIT AREAS

<i>Variety</i>	<i>Days to Mature</i>	<i>CLAY</i>		<i>LOAM</i>				<i>Plant Height (cm)</i>	<i>Lodging 1=Standing 5 = Flat</i>
		<i>Yield Index (%)</i>							
		<i>Tilbury</i>	<i>Woodslee</i>	<i>Average</i>	<i>Chatham</i>	<i>Malden</i>	<i>Average</i>		
S 20-20	108	98	103	101	101	104	103	77	1.0
Zest	108	96	92	93	98	93	95	71	1.1
Stine 2500	109	102	101	102	107	99	103	72	1.1
S 19-90	109	96	99	98	102	105	103	74	1.1
Hammer	111	93	89	90	95	93	94	82	1.3
Nankino	111	99	106	103	97	102	100	77	1.1
9234	111	89	91	90	89	91	90	76	1.3
CX232	112	92	103	99	103	103	103	69	1.0
Kenwood 94	112	109	96	102	100	100	100	83	1.6
5 24-12	112	105	99	102	99	109	104	75	1.1
Fraser	113	100	95	97	100	99	99	72	1.1
S 24-92	113	99	99	99	104	100	102	74	1.1
A2615	114	110	102	105	99	102	101	71	1.0
J-251	114	97	100	99	100	100	100	70	1.1
KG92	114	101	98	99	98	93	95	73	1.2
9244	114	103	106	105	99	97	98	73	1.0
A2242	115	101	103	102	101	94	98	72	1.2
TS255	115	103	109	106	100	107	103	80	1.3
9281	115	105	103	104	100	102	101	73	1.2
AP2588	116	99	99	99	97	94	95	73	1.1
A2540	116	92	94	93	99	90	94	81	1.2
A2553	116	110	104	107	106	109	107	72	1.0
Hallmark	116	99	99	99	95	96	96	84	1.3
Hanlon	117	104	104	104	104	106	105	89	1.3
RCAT Calico	117	95	102	99	103	104	103	78	1.0
RCAT Columbus	117	102	101	102	103	106	105	85	1.2
TS282	117	104	105	105	103	99	101	77	1.7
9305	117	100	101	101	99	106	103	77	1.2
Nemecys 28	118	97	97	97	101	97	99	81	1.3
Average yield	(T/ha)	3.30	3.12	3.19	3.82	3.73	3.77		
	(bu/ac)	50.0	47.3	48.4	57.9	56.5	57.2		

Testing areas: Tilbury - Average of 2 trials in 1995 1996 .
Woodslee - Average of 3 trials in 1995 1996 1997.
Chatham - Average of 2 trials in 1995 1996.
Malden - Average of 2 trials in 1994 1996 1997.
CLAY - Average of 5 trials in 1995 1996 1997.
LOAM - Average of 4 trials in 1995 1996 1997.

**TABLE 6. VARIETY PERFORMANCE
IN SOYBEAN CYST NEMATODE
INFESTED SOIL**

Type	Variety	Days to Mature	Yield t/ha	Yield Index (%)	Plant Height (cm)
Average of 4 tests (1995-1997)					
Resistant	S18-11	110	3.32	128	62
Resistant	Nemecys 19	111	3.14	121	65
Resistant	Hammer	112	3.46	133	77
Resistant	A2540	117	3.35	129	77
Susceptible	Mean of 3*	115	2.60	100	61
Average of 3 tests (1995-1997)					
Resistant	9234	112	3.52	135	76
Susceptible	Mean of 3*	115	2.61	100	62
Average of 3 tests (1996-1997)					
Resistant	Nemecys 28	119	3.25	125	67
Susceptible	Mean of 3*	116	2.61	100	60

*3 varieties with above average yield potential

**TEST LOCATIONS & SOIL
TYPES - 1997 TRIALS**

Location	Heat Unit Soil Rating Type	Row Width (cm)	Seeding Rate plants/ac	Co-operator
Malden	3500 Clay Loam	60	160,000	George Ellenberger
Woodslee	3400 Clay	60	240,000	Research Centre
Inwood	3050 Clay	43	200,000	Ray Lloyd
Ridgetown	3250 Clay Loam	43	160,000	R.C.A.T.
Dutton	3100 Clay	43	200,000	Don Skipper
Talbotville	2900 Clay Loam	35	200,000	Tom Oegema
Woodstock	2700 Clay Loam	35	200,000	O.A.C.
St. Paul's	2750 Clay Loam	35	200,000	Bernard Murray
Winchester	2825 Clay Loam	35	200,000	K.C.A.T.
Elora	2550 Silt Loam	35	200,000	O.A.C.
Brussels	2600 Clay Loam	35	200,000	Murray Cardiff
Ottawa	2650 Sandy Loam	40	200,000	Research Centre

SOYBEAN VARIETY DISTRIBUTORS

If you do not know who your local supplier is for a soybean variety listed in Table 1, then contact the distributor for information

Advantage Seed Growers & Processors Inc.
Box 29, 505 Canning St., Lucknow, ON, N0G 2H0
Tel: 1-800-651-7333 Fax: 519-528-3542

Agrocentre Belcan Inc.
180 Mt. Ste. Marie, Ste. Marthe QC, J0P 1W0
Tel: 1-800-537-5157 Fax: 514-459-4216

C & M Seeds
RR#3, Palmerston, ON, N0G 2P0
Tel: 519-343-2126 Fax: 519-343-3792

Cargill Hybrid Seeds
P.O. Box 490, Princeton ON, NOJ 1B0
Tel: 519-458-4336 Fax: 519-458-4330

Cooperative Federee de Quebec
9001, boul. de l'Acadie, Suite 200, Montreal QC, H4N 3H7
Tel: 514-858-2667 Fax: 514-385-5142

DEKALB Canada Inc.
301 Richmond St, Chatham ON, N7M 1 P5
Tel: 519-352-5310 Fax: 519-352-6259

Ferguson Seeds
RR# 1, Essex ON, N8M 2X5
Tel: 519-776-5779 Fax: 519-776-9319

First Line Seeds Ltd.
RR#2, Guelph ON, N1H 6H8
Tel: 1-800-361-2326 Fax: 519-821-9755

GROWMARK Inc.
P.O. Box 634, Mississauga ON, L5L 2C1
Tel: 905-890-4266 Fax: 905-890-4316

Heartland Seeds
RR#5, Wallaceburg, ON, N8A 4L2
Tel: 1-800-265-5242 Fax: 519-627-2990

Hyland Seeds, Div. of W.G. Thompson & Sons Ltd.
P.O. Box 130, Blenheim ON, N0P 1A0
Tel: 519-676-8146 Fax: 519-676-5674

Mapleseed Inc.
Box 1068, Lindsay ON, K9V 5N4
Tel: 1-800-461-7645 Fax: 705-324-1803

Mycogen Canada Inc.
305 Consortium Court, London ON, N6E 2S8
Tel: 1-800-265-5289

Novartis Seeds Ltd.
RR#1, Arva, ON N0M 1C0
Tel: 1-800-711-5511 Fax: 519-461-0405

Pioneer Hi-Bred Ltd.
Box 730, Chatham ON, N7M 5L1
Tel: 519-352-6350 Fax: 519-436-6753

Pride Brand Seeds
P.O. Box 1088, Chatham ON, N7M 5L6
Tel: 519-354-3210 Fax: 519-354-8155

PRO Seeds of Canada
RR#6, Woodstock ON, N4S 7W1
Tel: 1-888-537-5157 Fax: 519-537-5169

Renk Seed Company of Canada
RR#4, Blenheim ON, N0P 1A0
Tel: 519-676-4202 Fax: 519-354-8603

SeCan Association
200-57 Auriga Drive, Nepean ON, K2E 8B2
Tel: 613-225-6891 Fax :613-225-6422

Semences Laguerre Inc.
999 Boulevard Lamontagne, Saint-Casimir QC, G0A 3L0
Tel: 819-339-2474 Fax: 819-339-2474

Semican Atlantic Inc.
353 Ranglo, Plessisville QC, G6L 2Y2
Tel: 819-362-8823 Fax: 819-362-3385

Southwest Seeds Inc.
RR#1, Ridgetown, ON
Tel: 519-674-0054 / 519-674-3876

Terra International, c/o Mergl Seeds Ltd.
RR#1, Maidstone, ON, N0R 1K0
Tel: 519-737-6851 Fax: 519-737-9601