

1995 REPORT

Ontario Soybean Variety Trials



Conducted in 1992 - 94
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; Ridgeway College of Agricultural Technology; Huron Research Station; University of Guelph; Kemptonville College of Agricultural Technology; Research Centre, Ottawa.

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 choosing a variety you should select those varieties approximately equal to or less than the heat units available on your farm. Varieties may differ slightly for heat unit rating from one test area to another.

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), Gray (G), Buff (Bf), Brown (Br), Black (Bl), or Imperfect Black (IBI). Hilum colour may also be Light (L) or Dark (D). Yellow hilum soybeans are generally the only type accepted for the export market. In certain years, however, discolouration of the hilum 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.

PHYTOPHTHORA ROOT ROT

The % Plant Loss is a three-year average (1992-94) obtained in a field heavily infested with Phytophthora. Some races of Phytophthora root rot are not found at this site. Thus the relative ranking of varieties for tolerance may differ in fields that have other races present.

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.

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.

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 Rating</i>	<i>Colour</i>	<i>per Kilogram</i>	<i>Root Rot %</i>	<i>Index</i>	
OAC Eramosa	2	2350	BR	5700	10	100	SeCan Members
Bethune		2450	BR	5600	3	97	First Line Seeds Ltd.
KG20		2450	Y	5800	10	102	Pride Brand Seeds
Corona		2475	BR	6200	4	100	Hyland Seeds
OAC Salem		2500	Y	5600	6	101	SeCan Members
Riel		2500	Y	6600	12	100	First Line Seeds Ltd.
AC Proteus		2525	BR	6100	3	115	Semences Prograin Inc
AC Harmony		2550	BR	6900	21	95	SeCan Members
Aquilon		2550	BR	5100	4	102	William Houde Ltd
Maple Glen		2550	LBR	5200	7	101	SeCan Members
KG30		2575	DBR	7200	18	100	Pride Brand Seeds
S00-66		2575	BR	5200	10	99	Northrup King Seeds Ltd.
PS42		2600	LBF	5300	9	102	Pride Brand Seeds
AC Brant	2	2625	Y	5100	6	100	First Line Seeds Ltd.
S02-30		2625	Y	4900	5	102	Northrup King Seeds Ltd.
Bicentennial		2650	BR	5000	10	101	SeCan Members
KG41	*	2650	Y	5600	5	98	Pride Brand Seeds
OAC Bayfield		2650	BR	5300	10	99	SeCan Members
OAC Trent		2650	Y	5200	10	101	Hyland Seeds
S00-88		2650	BR	5300	3	98	Northrup King Seeds Ltd.
KG60	*	2675	BF	5500	5	101	Pride Brand Seeds
OAC Brussels		2675	BR	5300	11	98	SeCan Members
OAC Libra		2675	BL	6200	8	98	SeCan Members
OAC Scorpio		2675	Y	5500	12	101	SeCan Members
Beck		2700	BR	5100	9	98	First Line Seeds Ltd.
Maple Donovan		2700	BF	7100	6	100	SeCan Members
OAC Arthur		2700	Y	5300	2	101	Advantage Seed Grow & Proc
AC Bravor	*	2725	BR	5700	8	100	First Line Seeds Ltd.
Galt		2725	BL	6100	9	98	First Line Seeds Ltd.
MS0747		2725	BR	5500	18	98	Mapleseed Inc.
9071	*	2725	Y	6800	14	97	Pioneer Hi-Bred Ltd.
J-083		2750	Y	6000	17	100	Mycogen Canada
OAC Eclipse	*	2750	BR	5600	8	97	SeCan Members
Marathon		2775	Y	5300	11	100	Hyland Seeds
OAC Dorado		2825	BR	5500	11	99	SeCan Members
OAC Exeter		2825	Y	5000	3	104	First Line Seeds Ltd.
A1511	**	2850	BF	6100	4	102	Cargill Hybrid Seeds
Haroson	*	2850	BF	6200	13	100	SeCan Members
Secord		2850	Y	5700	6	105	First Line Seeds Ltd.
T8902		2850	Y	5500	11	98	Hyland Seeds
KG62		2875	Y	5700	5	101	Pride Brand Seeds
Talon	*	2900	BF	6200	2	100	Hyland Seeds
AP1347		2925	Y	6500	12	99	Mapleseed Inc.
A1123	**	2925	BF	6300	2	100	Cargill Hybrid Seeds
J-144		2925	BL	5700	4	104	Mycogen Canada
OAC Shire		2925	BL	5800	5	103	SeCan Members
A1662	**	2950	BL	5200	4	105	Cargill Hybrid Seeds
J-141		2950	Y	6500	11	97	Mycogen Canada
Noble		2950	BF	5800	3	101	Hyland Seeds
RS1493	**	2950	BL	5100	2	106	Renk Seed/Mapleseed
T8508		2950	BR	5300	8	98	Hyland Seeds
9161		2950	BF	6000	7	100	Pioneer Hi-Bred Ltd.
Brock		2975	BR	5800	4	97	First Line Seeds Ltd.
AP1989	*	3000	Y	5700	22	97	Mapleseed Inc.
A1875	**	3000	BR	4800	3	102	Cargill Hybrid Seeds
A1923	**	3000	BL	5700	4	101	Cargill Hybrid Seeds
OAC Talbot		3000	Y	5600	7	95	Top Notch Feeds Ltd.
Spitfire	**	3000	BF	6000	4	101	First Line Seeds Ltd.
S19-90	*	3000	GR	4800	2	100	Northrup King Seeds Ltd.

**TABLE 1. SOYBEAN VARIETY RECOMMENDATIONS & DESCRIPTION
(Continued)**

<i>Variety</i>	<i>Notes</i>	<i>Heat Unit Rating</i>	<i>Hilum Colour</i>	<i>Seeds per Kilogram</i>	<i>Phytophthora Root Rot % Plant Loss</i>	<i>Protein % Index</i>	<i>Distributor</i>
S20-20	*	3000	Y	5100	2	99	Northrup King Seeds Ltd.
T9103		3000	BR	5600	10	96	Hyland Seeds
M-210		3025	Y	5900	8	99	Mycogen Canada
OAC Thames		3025	Y	5200	4	97	Cargill Hybrid Seeds
9203		3025	Y	6200	7	98	Pioneer Hi-Bred Ltd.
S20-91	*	3050	GR	5000	5	100	Northrup King Seeds Ltd.
9202		3050	Y	5000	8	98	Pioneer Hi-Bred Ltd.
Ayr		3075	BL	4800	9	99	Advantage Seed Grow&Proc
A2127	**	3075	BL	5200	3	101	Cargill Hybrid Seeds
Bell	3	3075	BL	5000	3	103	SeCan Members
DB1926	*	3075	BR	4700	6	99	Advantage Seed Grow&Proc
S24-92		3075	BL	5800	7	100	Northrup King Seeds Ltd.
A2506	**	3100	BL	5400	2	103	Cargill Hybrid Seeds
CX210		3100	BL	6000	5	99	Dekalb Canada Inc.
CX232		3100	BR	5700	8	102	Dekalb Canada Inc.
Elgin 87	**	3100	BL	5300	4	100	SeCan Members
J-220		3100	Y	5500	2	100	Mycogen Canada
Nankino		3100	IBL	5800	9	99	Hyland Seeds
PS83		3100	Y	5600	25	102	Pride Brand Seeds
RCAT Tabby	*	3100	Y	5500	8	100	SeCan Members
Sals 93		3100	BF	4900	22	101	Sals Seeds Ltd.
Tecumseh		3100	BL	6500	6	100	First Line Seeds Ltd.
80451		3100	BR	6100	8	100	Ferguson Seeds
A2242	**	3125	GR	6300	2	101	Cargill Hybrid Seeds
J-212		3125	BR	6300	8	102	Mycogen Canada
J-251		3125	BR	5500	7	101	Mycogen Canada
KG92		3125	Y	5000	6	97	Pride Brand Seeds
OAC Sparta		3125	BL	5300	10	98	SeCan Members
Conrad		3150	BR	5600	3	100	SeCan Members
RCAT Angora	*	3150	Y	5600	5	97	SeCan Members
9302	*	3150	BR	4700	4	99	Pioneer Hi-Bred Ltd.
A2615	**	3175	IBL	5400	6	103	Cargill Hybrid Seeds
9242		3175	BR	5100	3	101	Pioneer Hi-Bred Ltd.
9273		3175	BL	5800	6	100	Pioneer Hi-Bred Ltd.
DB1953		3200	Y	5600	15	98	Advantage Seed Grow&Proc
La Salle	*	3200	IBL	5100	6	97	First Line Seeds Ltd.
RCAT Columbus		3200	BL	5100	8	101	Ferguson Seeds
Buckhorn		3225	BR	6100	6	100	Hyland Seeds
A2540	3	3250	BF	6500	5	104	Cargill Hybrid Seeds
CX267		3250	LGR	6300	5	101	Dekalb Canada Inc.
Hanlon		3250	IBL	5600	14	99	First Line Seeds Ltd.
Quantum		3250	BL	5700	5	99	Hyland Seeds
RCAT Calico		3250	Y	5100	12	105	SeCan Members
S25-07	3	3250	BF	5900	8	100	Northrup King Seeds Ltd.
AP2880		3275	LBF	5600	6	101	Mapleseed Inc.
9303		3300	Y	5000	11	101	Pioneer Hi-Bred Ltd.
Dominator	*	3325	Y	5200	5	100	Hyland Seeds
T2967		3350	IBL	5400	5	105	Hyland Seeds

* 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.

1 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 2. AGRONOMIC DATA 2500 - 2800 HEAT UNIT AREAS

<i>Variety</i>	<i>Heat Unit Rating</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>		
OAC Eramosa	2350	90	92	84	92	89	73	1.7
Bethune	2450	88	94	93	88	91	80	1.7
KG20	2450	86	87	91	95	90	74	1.7
Corona	2475	99	100	93	99	97	83	1.9
OAC Salem	2500	92	95	100	94	96	76	1.5
Riel	2500	90	101	93	96	95	81	1.4
AC Proteus	2525	80	79	82	81	81	81	1.2
AC Harmony	2550	87	88	108	94	95	76	1.1
Aquilon	2550	104	104	100	103	102	84	2.0
Maple Glen	2550	103	101	100	99	100	77	1.4
KG30	2575	97	96	94	89	94	83	1.5
S00-66	2575	99	109	106	103	105	83	1.3
PS42	2600	105	108	108	105	107	76	1.5
AC Brant	2625	103	102	107	109	106	83	1.6
Bicentennial	2650	104	103	95	102	100	83	1.9
KG41	2650	101	100	106	104	103	79	1.1
OAC Bayfield	2650	115	118	115	111	115	82	1.8
S00-88	2650	98	101	98	98	99	85	1.5
OAC Brussels	2675	103	103	112	109	108	72	1.2
OAC Libra	2675	104	108	93	103	102	91	2.3
OAC Scorpio	2675	95	90	92	101	95	83	1.9
Beck	2700	108	104	111	105	107	85	1.6
OAC Arthur	2700	105	108	108	109	108	77	1.7
AC Bravor	2725	113	101	105	100	104	89	1.9
Galt	2725	105	107	91	102	101	93	2.3
9071	2725	113	93	105	108	104	83	1.7
OAC Eclipse	2750	115	106	109	100	107	89	1.5
Average yield	(T/ha)	3.01	2.79	3.33	3.13	3.07		
	(bu/ac)	45.6	42.3	50.4	47.4	46.5		

Testing areas: Brussels - Average of 2 trials in 1993 1994.
 Elora - Average of 3 trials in 1992 1993 1994.
 Ottawa - Average of 3 trials in 1992 1993 1994.
 Winchester - Average of 3 trials in 1992 1993 1994.
 Average - Average of 11 trials in 1992 1993 1994.

TABLE 3. AGRONOMIC DATA 2700 - 2900 HEAT UNIT AREAS

<i>Variety</i>	<i>Heat</i>	<i>Yield Index (%)</i>					<i>Plant</i>	<i>Lodging</i>
	<i>Unit</i>	<i>Exeter</i>	<i>St. Pauls</i>	<i>Winchester</i>	<i>Woodstock</i>	<i>Average</i>	<i>Height</i>	<i>1=Standing</i>
	<i>Rating</i>						<i>(cm)</i>	<i>5=Flat</i>
Maple Glen	2550	94	95	94	91	93	77	1.4
S02-30	2625	108	98	99	100	102	79	1.2
Bicentennial	2650	96	95	96	93	95	82	1.4
OAC Bayfield	2650	109	109	108	109	109	85	1.5
OAC Trent	2650	106	97	98	95	99	77	1.5
KG60	2675	101	94	101	99	99	78	1.5
OAC Libra	2675	96	102	97	99	98	92	2.0
Maple Donovan	2700	94	91	93	86	91	88	1.6
MS0747	2725	99	98	102	105	101	89	1.4
9071	2725	100	96	101	96	98	83	1.4
J-083	2750	100	102	99	97	100	90	1.4
OAC Eclipse	2750	101	96	96	98	98	88	1.3
Marathon	2775	104	106	100	109	104	94	1.7
OAC Dorado	2825	100	101	99	104	101	91	1.1
OAC Exeter	2825	104	107	102	102	104	83	1.8
Haroson	2850	96	98	96	97	97	95	1.6
Secord	2850	97	104	98	103	100	89	1.3
T8902	2850	100	103	102	107	103	99	2.1
KG62	2875	98	98	105	103	101	88	1.5
Talon	2900	94	98	99	95	97	96	1.7
AP1347	2925	98	105	107	107	104	103	1.8
A1123	2925	101	99	99	95	98	84	1.5
OAC Shire	2925	109	105	106	106	106	80	1.5
Noble	2950	98	100	100	95	98	96	1.7
RS1493	2950	96	105	99	107	101	80	1.1
T8508	2950	102	100	103	101	102	90	1.6
Average yield	(T/ha)	3.42	3.12	3.40	2.65	3.15		
	(bu/ac)	51.8	47.3	51.5	40.2	47.7		

Testing areas: Exeter - Average of 3 trials in 1992 1993 1994.
 St. Pauls - Average of 3 trials in 1992 1993 1994.
 Winchester - Average of 3 trials in 1992 1993 1994.
 Woodstock - Average of 3 trials in 1992 1993 1994.
 Average - Average of 12 trials in 1992 1993 1994.

TABLE 4. AGRONOMIC DATA 2900 - 3300 HEAT UNIT AREAS

<i>Variety</i>	<i>Heat Unit Rating</i>	<i>CLAY</i>			<i>LOAM</i>			<i>Plant Height 1 = Standing (cm)</i>	<i>Lodging 5 = Flat</i>
		<i>Yield Index (%)</i>							
		<i>Dutton</i>	<i>Inwood</i>	<i>Average</i>	<i>Ridgetown</i>	<i>Talbotville</i>	<i>Average</i>		
A1511	2850	90	98	94	94	90	92	73	2.0
Haroson	2850	99	95	97	92	92	92	81	2.5
AP1347	2925	94	86	90	94	103	99	92	2.1
J-144	2925	84	94	89	101	96	99	73	1.6
OAC Shire	2925	96	99	97	108	89	99	67	2.0
A1662	2950	109	105	107	96	96	95	80	2.0
J-141	2950	85	72	79	106	98	102	71	1.8
T8508	2950	99	101	100	105	100	103	81	1.8
9161	2950	103	104	103	92	99	95	79	1.8
Brock	2975	101	104	102	101	95	98	77	1.7
AP1989	3000	105	99	102	93	96	95	82	2.1
A1875	3000	103	100	102	107	105	106	75	1.8
A1923	3000	115	103	109	107	108	107	73	1.7
OAC Talbot	3000	93	91	93	100	102	101	78	2.1
Spitfire	3000	111	104	108	95	98	96	82	2.2
S19-90	3000	103	107	105	105	110	107	76	1.5
S20-20	3000	108	107	108	98	103	100	82	1.5
T9103	3000	103	106	104	95	103	98	82	2.8
M-210	3025	89	92	90	108	108	108	80	1.9
OAC Thames	3025	92	93	93	103	100	101	81	2.1
9203	3025	95	95	95	96	96	96	75	2.4
S20-91	3050	104	100	102	106	100	103	78	1.8
9202	3050	96	96	96	100	98	99	77	1.5
Ayr	3075	96	106	101	105	104	104	81	2.3
A2127	3075	99	100	100	101	100	100	81	2.0
Bell	3075	100	101	100	99	92	96	79	2.8
DB1926	3075	107	102	105	110	108	109	81	2.1
CX232	3100	108	109	108	111	109	110	74	1.5
Elgin 87	3100	106	111	108	93	95	94	77	2.6
P583	3100	104	91	98	100	105	102	88	2.0
RCAT Tabby	3100	100	112	106	93	105	99	83	2.0
J-212	3125	104	101	102	104	98	101	81	2.5
OAC Sparta	3125	99	99	99	97	94	95	83	3.0
Conrad	3150	95	95	95	97	100	99	81	2.3
RCAT Angora	3150	111	109	110	90	100	94	76	2.9
9242	3175	102	105	103	106	109	107	97	2.3
9273	3175	106	108	107	100	101	100	77	1.7
DB1953	3200	90	101	95	95	97	96	86	2.4
La Salle	3200	96	99	97	98	100	99	86	2.3
Average yield (T/ha)		3.06	2.58	2.82	3.80	3.37	3.58		
(bu/ac)		46.4	39.1	42.7	57.6	51.1	54.2		

Testing areas: Dutton - Average of 2 trials in 1992 1993.
 Inwood - Average of 2 trials in 1993 1994.
 Ridgetown - Average of 3 trials in 1992 1993 1994.
 Talbotville - Average of 3 trials in 1992 1993 1994.
 CLAY - Average of 4 trials in 1992 1993 1994.
 LOAM - Average of 6 trials in 1992 1993 1994.

TABLE 5. AGRONOMIC DATA 3300 - 3500 HEAT UNIT AREAS

Variety	Heat Unit Rating	CLAY			LOAM			Plant Height (cm)	Lodging 1 = Standing 5 = Flat
		Yield Index (%)							
		Tilbury	Woodslee	Average	Chatham	Malden	Average		
9161	2950	94	92	93	99	86	92	81	1.8
S19-90	3000	85	95	91	110	109	110	78	1.3
520-20	3000	106	102	104	94	95	94	82	1.6
9202	3050	96	95	95	103	104	103	79	1.6
Bell	3075	84	91	88	97	90	93	79	2.4
524-92	3075	109	104	106	108	111	109	80	1.6
A2506	3100	104	94	98	105	105	105	78	1.5
CX210	3100	102	96	98	102	101	101	95	1.8
Elgin 87	3100	98	99	99	96	94	95	80	2.6
J-220	3100	92	95	94	98	103	101	79	2.1
Nankino	3100	103	100	101	104	105	105	87	1.6
RCAT Tabby	3100	99	96	97	95	89	92	88	2.2
Sals 93	3100	96	102	100	101	104	102	87	2.0
Tecumseh	3100	105	97	100	103	99	101	83	1.6
80451	3100	102	104	103	99	99	99	80	2.2
A2242	3125	105	105	105	99	102	101	77	1.5
J-251	3125	106	106	105	109	103	106	75	1.6
KG92	3125	101	100	100	99	98	98	79	2.5
Conrad	3150	106	100	102	96	94	95	84	2.2
RCAT	3150	107	100	103	97	92	94	81	2.9
9302	3150	99	101	100	99	102	101	80	1.4
A2615	3175	103	103	103	105	106	106	78	1.3
9273	3175	108	106	107	101	101	101	82	1.6
RCAT	3200	104	101	102	105	104	105	88	1.8
Buckhorn	3225	98	100	99	83	90	87	95	3.2
A2540	3250	88	98	95	91	100	96	86	1.9
CX267	3250	100	102	101	107	98	102	94	2.1
Hanlon	3250	101	101	101	107	102	104	94	1.7
Quantum	3250	107	102	104	103	105	104	85	2.0
RCAT Calico	3250	95	105	101	103	105	104	83	1.4
S25-07	3250	89	93	92	95	97	96	104	2.0
AP2880	3275	102	101	102	99	108	104	75	1.1
9303	3300	110	107	108	99	103	101	88	1.8
Dominator	3325	101	103	102	88	94	91	102	2.4
T2967	3350	98	103	101	100	104	102	89	1.6
Average yield (T/ha)		3.63	3.56	3.58	3.81	4.01	3.91		
(bu/ac)		55.0	53.9	54.2	57.7	60.8	59.2		

Testing areas: Tilbury - Average of 2 trials in 1993 1994.
Woodslee - Average of 3 trials in 1992 1993 1994.
Chatham - Average of 3 trials in 1992 1993 1994.
Malden - Average of 3 trials in 1992 1993 1994.
CLAY - Average of 5 trials in 1992 1993 1994.
LOAM - Average of 6 trials in 1992 1993 1994.

DISTRIBUTORS OF SOYBEAN VARIETIES

**TABLE 6. PERFORMANCE OF
RESISTANT AND SUSCEPTIBLE
VARIETIES IN SOYBEAN CYST
NEMATODE INFESTED SOIL**

AVERAGED OVER 4 YEARS (1991 - 94)

<i>Variety</i>	<i>Heat Unit Rating</i>	<i>Days to Mature</i>	<i>Yield t/ha</i>	<i>Yield Index (%)</i>	<i>Plant Height (cm)</i>	<i>Seed weight (gm/100)</i>
Resistant						
Bell	3075	124	2.76	205	54	19.4
S25-07	3250	125	2.63	195	67	16.4
Susceptible						
Average*	3175	128	1.35	100	47	17.4

* Average represents the mean of 3 susceptible varieties with above average yield potential on non infested soils.

For performance of Resistant varieties on non infested soils, see tables 4 and 5.

TEST LOCATIONS & SOIL TYPES - 1994 TRIALS

<i>Location</i>	<i>Heat Unit Rating</i>	<i>Soil Type</i>	<i>Row Width (cm)</i>	<i>Seeding Rate plants/ac</i>	<i>Co-operator</i>
Malden	3500	Clay Loam	60	160,000	Jerome Deslippe
Woodslee	3400	Clay	60	240,000	Research Centre
Tilbury	3350	Clay	60	240,000	Robert Farquharson
Chatham	3300	Clay Loam	60	160,000	Stan Wonnacott
Inwood	3050	Clay	60	160,000	Ray Lloyd
Ridgetown	3250	Clay Loam	60	160,000	R.C.A.T.
Dutton	3100	Clay	60	160,000	Alex Wolfe
Talbotville	2900	Clay Loam	35	200,000	Tom Oegema
Exeter	2800	Clay Loam	35	200,000	H.R.S.
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	Jeff Cardiff
Ottawa	2650	Sandy Loam	40	200,000	Research Centre

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 130, Inwood ON, NON 1K0
Tel:519-844-2426 Fax:519-844-2424

Cargill Hybrid Seeds

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

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, NCH 6HB
Tel:1-800-361-2326 Fax:519-821-9755

Hyland Seeds, Div. of W.G. Thompson & Sons Ltd.

P.O. Box 130, Blenheim ON, NOP 1A0
Tel:519-676-8146 Fax:519-676-5674

Mapleseed Inc.

Box 1068, Lindsay ON, K9V 5N4
Tel:705-324-6273 Fax:705-324-1803

Mycogen Canada Inc.

P.O. Box 1417, Chatham ON, N7M 5W8
Tel:1-800-265-5289

Northrup King Seeds Ltd.

Cameron Court, RR#1, Hyde Park ON, NOM
170 Tel:519-659-4205 Fax:519-659-3101

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

Renk Seed Company of Canada

RR#4, Blenheim ON, NOP 1A0
Tel:519-676-4202 Fax:519-354-8603

Sals Seeds Ltd.

RR#6, Wallaceburg ON,
Tel:519-627-2681 Fax:519-352-6315

SeCan Association

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

Semences Prograin Inc.

145 Bas Riviere-Nord, St-Cesaire PQ, JOL
1TO Tel:514-469-5744 Fax:514-469-4547

Topnotch Feeds Ltd.

389 S. Edgware Rd., St.Thomas ON, N5P
4B8 Tel:519-631-2060 Fax:519-631-9845

William Houde Ltee

8,rang 3, Saint-Simon de Bagot PQ, JOH
1Y0 Tel: 514-798-2002 Fax:514-798-2776