

1996 REPORT

Ontario Soybean Variety Trials



Conducted in 1993 - 95

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 of Agricultural Technology; Huron Research Station; University of Guelph; Kemptville 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.

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), 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 (1993-95) 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 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>
Autan		2275	Y	5900	16	101	Semences Prograin Inc.
OAC Eramosa	2	2300	BR	5700	12	100	SeCan Members
Corona		2400	BR	6000	4	100	Hyland Seeds
PS32		2450	BR	6300	7	96	Pride Brand Seeds
Riel		2450	Y	6500	10	98	First Line Seeds Ltd.
AC Harmony		2475	BR	6800	23	94	SeCan Members
OAC Salem		2475	Y	5400	6	102	SeCan Members
9008		2475	Y	7200	11	98	Pioneer Hi-Bred Ltd.
Aquilon		2500	BL	5000	3	102	Advantage Seed Grow&Proc
Quest		2500	BR	4500	5	106	Hyland Seeds
PS33		2525	BR	6200	8	92	Pride Brand Seeds
AC Proteus		2550	BR	5800	6	120	First Line Seeds Ltd.
Maple Glen		2550	LBR	5100	8	103	SeCan Members
S 00-55	*	2550	Y	5500	6	98	Northrup King Seeds Ltd.
S 00-66		2550	BR	5300	9	97	Northrup King Seeds Ltd.
AC Brant	2	2600	Y	5100	5	100	First Line Seeds Ltd.
022		2600	BR	5900	6	98	Mycogen Canada
KG41	*	2625	Y	5500	6	99	Pride Brand Seeds
PS42		2625	LBF	5100	9	102	Pride Brand Seeds
Bicentennial		2650	BR	4800	9	102	SeCan Members
Sundance	2	2650	Y	5400	7	104	Hyland Seeds
9042		2650	Y	6800	20	102	Pioneer Hi-Bred Ltd.
OAC Brussels		2675	BR	5200	13	98	SeCan Members
OAC Libra		2675	BL	6100	6	98	SeCan Members
040	*	2675	Y	7300	13	96	Mycogen Canada
Beck		2700	BR	5100	12	96	First Line Seeds Ltd.
Enterprise		2700	LBR	5400	5	101	Hyland Seeds
S 02-30	*	2700	Y	5000	6	101	Northrup King Seeds Ltd.
Maitland		2725	BR	4800	12	99	C&M Seeds
OAC Arthur		2725	Y	5000	2	102	Advantage Seed Grow&Proc
OAC Bayfield		2725	BR	5100	7	99	SeCan Members
9071	*	2725	Y	6500	11	95	Pioneer Hi-Bred Ltd.
AC Bravor	*	2750	BR	5400	10	101	First Line Seeds Ltd.
1-083		2750	Y	6200	18	98	Mycogen Canada
OAC Auburn		2750	LBR	5200	13	95	Advantage Seed Grow&Proc
OAC Embro		2750	LBR	5300	6	99	Hazzard's Farm Service Ltd.
OAC Trent		2750	Y	5100	13	102	Hyland Seeds
PS50		2750	BR	5000	5	98	Pride Brand Seeds
KG60	*	2775	BF	5400	6	101	Pride Brand Seeds
MS0747		2775	BR	5300	14	99	Mapleseed Inc.
OAC Eclipse	*	2775	BR	5400	7	97	SeCan Members
9092	*	2775	GR	7900	11	99	Pioneer Hi-Bred Ltd.
Bounty	2	2800	Y	5500	15	102	Hyland Seeds
Marathon		2825	Y	5200	11	100	Hyland Seeds
OAC Exeter		2825	Y	5000	2	104	First Line Seeds Ltd.
A1139	**	2850	IBL	6200	4	101	Cargill Hybrid Seeds
M-080	**	2850	BR	5600	9	98	Mycogen Canada
OAC Dorado		2875	BR	5500	12	97	SeCan Members
S 12-49	*	2875	GR	5200	9	98	Northrup King Seeds Ltd.
Secord		2875	Y	5700	6	105	First Line Seeds Ltd.
Tiger		2875	BL	6700	18	105	First Line Seeds Ltd.
Abound	2	2900	BR	5100	7	99	Hyland Seeds
CX173	*	2900	BL	7400	11	98	Dekalb Canada Inc.
KG62		2900	Y	5700	5	100	Pride Brand Seeds
T8902		2900	Y	5500	10	97	Hyland Seeds
AP1347		2950	Y	6400	13	100	Mapleseed Inc.
A1662	**	2950	BL	5300	3	106	Cargill Hybrid Seeds
OAC Shire		2950	BL	5800	6	103	SeCan Members
RS1493	**	2950	BL	5200	2	107	Renk Seed/Mapleseed
Talon	*	2950	BF	5800	12	100	Hyland Seeds
T8508		2950	BR	5400	7	98	Hyland Seeds
A1875	**	3000	BR	5100	3	101	Cargill Hybrid Seeds
A1931	**	3000	BF	6000	5	100	Cargill Hybrid Seeds

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

<i>Variety</i>	<i>Notes</i>	<i>Heat</i>	<i>Seeds</i>	<i>Phytophthora</i>	<i>Protein</i>	<i>Distributor</i>	
		<i>Unit Rating</i>	<i>Hilum Colour</i>	<i>per Kilogram</i>	<i>Root Rot % Plant Loss</i>		<i>Index %</i>
Spitfire	**	3000	BF	6200	5	100	First Line Seeds Ltd.
AP1989	*	3025	Y	6000	21	96	Mapleseed Inc.
A1923	**	3025	BL	5800	6	100	Cargill Hybrid Seeds
Blackjack 21		3025	BL	6000	5	100	Southwest Seeds
Carr	*	3025	Y	6300	5	100	First Line Seeds Ltd.
M-210		3025	Y	6000	11	99	Mycogen Canada
S 19-90	*	3025	GR	4900	2	99	Northrup King Seeds Ltd.
S 20-20	*	3025	Y	5400	3	98	Northrup King Seeds Ltd.
T9103		3050	BR	5700	10	96	Hyland Seeds
9202		3050	Y	5300	9	96	Pioneer Hi-Bred Ltd.
Ayr		3075	BL	5300	6	96	Advantage Seed Grow&Proc
Bell	3	3075	BL	5200	4	103	SeCan Members
DB1926	**	3075	BR	4900	7	101	Advantage Seed Grow&Proc
PS83		3075	Y	5800	25	102	Pride Brand Seeds
S 20-91	*	3075	GR	5000	5	99	Northrup King Seeds Ltd.
Tornado		3075	LBR	5400	9	104	Hyland Seeds
CX210		3100	BL	6300	6	99	Dekalb Canada Inc.
CX232		3100	BR	5800	8	102	Dekalb Canada Inc.
G-3202		3100	IBL	5200	6	103	Ciba Seeds
J-212		3100	BR	6600	11	101	Mycogen Canada
Nankino		3100	IBL	6100	9	99	Hyland Seeds
OAC Glencoe		3100	BR	5700	3	92	SeCan Members
RCAT Tabby	*	3100	Y	6000	8	98	SeCan Members
S 24-92		3100	BL	6200	10	100	Northrup King Seeds Ltd.
Sals 93		3100	BF	5100	24	100	Sals Seeds Ltd.
A2506	**	3125	BL	5700	5	103	Cargill Hybrid Seeds
Elgin 87		3125	BL	5800	3	100	SeCan Members
KG92		3125	Y	5200	4	94	Pride Brand Seeds
Tecumseh		3125	BL	6900	7	99	First Line Seeds Ltd.
A2615	**	3150	IBL	5600	7	101	Cargill Hybrid Seeds
J-251		3150	BR	5700	7	101	Mycogen Canada
RCAT Angora		3150	Y	6000	4	95	SeCan Members
9242		3150	BR	5400	4	101	Pioneer Hi-Bred Ltd.
9244		3150	Y	5800	12	98	Pioneer Hi-Bred Ltd.
A2242	**	3175	GR	6600	2	100	Cargill Hybrid Seeds
Conrad		3175	BR	5700	5	99	SeCan Members
9273		3175	BL	6100	8	100	Pioneer Hi-Bred Ltd.
9281	**	3200	BL	6200	5	100	Pioneer Hi-Bred Ltd.
Avenger		3225	BR	5800	5	104	Hyland Seeds
Quantum		3225	BL	6000	6	100	Hyland Seeds
RCAT Columbus		3225	BL	5500	6	99	Ferguson Seeds
2240		3225	BR	5500	5	99	Ferguson Seeds
A2540	3	3250	BF	6700	6	104	Cargill Hybrid Seeds
Hanlon		3250	IBL	5800	17	97	First Line Seeds Ltd.
RCAT Calico		3250	Y	5400	13	105	SeCan Members
AP2880		3275	LBF	6000	6	99	Mapleseed Inc.
IA2007	*	3275	BR	5200	3	98	Ferguson Seeds
TS282		3275	BL	5100	3	99	Terra International
9305	**	3275	Y	5400	3	100	Pioneer Hi-Bred Ltd.
Dominator	*	3325	Y	5500	7	98	Hyland Seeds
T2967		3325	IBL	5700	4	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>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>		
Autan	102	81	80	75	86	80	77	2.2
OAC Eramosa	103	86	90	82	84	85	73	1.8
Corona	108	97	103	92	92	95	84	1.9
PS32	110	94	96	99	93	96	76	1.5
Riel	110	93	96	89	93	92	81	1.5
AC Harmony	111	89	90	101	94	94	73	1.2
OAC Salem	111	93	95	101	95	96	77	1.7
9008	111	99	93	100	96	97	72	1.5
Aquilon	112	101	101	102	102	102	84	2.2
PS33	113	93	95	108	104	101	69	1.4
AC Proteus	114	79	75	81	80	79	82	1.5
Maple Glen	114	102	104	101	99	101	77	1.5
S 00-55	114	92	90	100	100	96	71	1.4
S 00-66	114	101	104	105	99	102	83	1.3
022	116	106	107	97	100	102	85	1.7
AC Brant	117	100	96	105	107	103	85	1.7
KG41	118	103	98	104	102	102	82	1.1
PS42	118	104	107	105	103	104	81	1.8
Bicentennial	119	103	102	101	102	102	87	2.0
Sundance	119	99	101	95	103	99	83	1.8
9042	119	106	107	105	99	104	87	1.8
OAC Brussels	120	104	107	111	109	108	74	1.4
040	120	105	101	103	108	105	80	1.5
Beck	121	108	108	107	103	106	89	2.0
Enterprise	121	112	108	109	107	109	83	1.6
OAC Libra	121	102	109	96	101	101	96	2.5
S 02-30	121	102	115	100	103	104	80	1.7
Maitland	122	105	102	101	107	104	89	2.2
OAC Arthur	122	102	110	107	107	106	81	2.2
OAC Bayfield	122	114	120	116	111	115	86	2.0
AC Bravor	123	112	99	111	105	108	93	2.4
PS50	123	112	96	103	108	106	96	2.4
9071	123	113	101	107	110	109	87	2.0
OAC Eclipse	124	113	106	103	105	107	93	1.8
9092	124	102	108	100	97	101	89	1.8
Average yield	(T/ha)	3.31	3.02	3.86	3.55	3.47		
	(bu/ac)	50.1	45.7	58.5	53.8	52.6		

Testing areas: Brussels - Average of 3 trials in 1993 1994 1995. Elora - Average of 2 trials in 1993 1994. Ottawa - Average of 3 trials in 1993 1994 1995. Winchester - Average of 3 trials in 1993 1994 1995.
Average - Average of 11 trials in 1993 1994 1995.

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>		
9042	113	96	94	90	95	93	85	1.3
Beck	114	95	101	97	102	99	90	1.3
OAC Libra	114	96	97	98	95	97	91	1.9
S 02-30	114	104	94	94	97	97	82	1.2
OAC Bayfield	115	109	105	103	107	106	87	1.6
9071	115	97	98	103	95	98	84	1.5
J-083	116	96	99	99	95	97	89	1.5
OAC Auburn	116	105	105	104	104	105	89	1.2
OAC Embro	116	101	97	102	96	99	89	1.6
OAC Trent	116	103	95	94	92	96	80	1.5
9092	116	96	93	95	93	94	86	1.3
KG60	117	103	92	98	96	97	81	1.7
MS0747	117	102	100	102	106	102	93	1.6
Bounty	118	98	100	99	96	99	83	1.1
OAC Eclipse	118	102	99	96	99	99	91	1.2
Marathon	119	97	102	100	104	101	97	1.7
OAC Exeter	119	100	100	101	103	101	83	1.5
A1139	120	99	103	101	97	100	94	1.4
M-080	120	102	104	105	108	105	90	1.1
OAC Dorado	121	100	102	99	104	101	94	1.1
Secord	121	100	105	103	99	102	92	1.4
S 12-49	121	101	102	108	95	102	85	1.0
Tiger	121	100	96	102	95	98	82	1.3
Abound	122	94	100	90	104	97	99	2.1
KG62	122	99	103	103	102	102	88	1.4
T8902	122	99	102	98	105	101	102	2.0
AP1347	124	99	101	106	101	102	105	1.7
OAC Shire	124	108	106	104	108	106	83	1.4
RS1493	124	98	104	99	103	101	81	1.3
Talon	124	95	103	101	96	99	97	2.0
T8508	124	102	100	103	103	102	93	1.4
Average yield	(T/ha)	3.60	3.59	3.74	3.15	3.52		
	(bu/ac)	54.5	54.4	56.7	47.7	53.3		

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>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>Dutton</i>	<i>Inwood</i>	<i>Average</i>	<i>Ridgetown</i>	<i>Talbotville</i>	<i>Average</i>		
A1662	114	97	101	99	95	94	95	79	1.5
OAC Shire	115	92	102	98	104	91	98	67	1.3
A1875	116	101	100	100	104	99	102	72	1.1
A1931	116	98	102	100	100	100	100	79	1.3
Spitfire	116	103	102	102	94	97	95	80	1.7
T8508	116	101	100	100	101	99	100	78	1.1
AP1989	117	95	98	97	92	95	93	78	1.5
A1923	117	101	103	102	109	99	104	71	1.1
Blackjack 21	117	104	97	100	96	107	101	89	1.5
Carr	117	102	101	102	97	97	97	81	1.5
M-210	117	102	94	97	106	103	104	78	1.3
S 20-20	117	102	104	103	97	98	97	79	1.1
S 19-90	118	99	102	100	104	104	104	75	1.2
T9103	118	102	101	102	97	107	101	83	2.4
9202	118	93	97	95	97	96	97	74	1.3
Ayr	119	98	100	99	103	103	103	80	1.8
Bell	119	94	95	95	93	91	92	79	1.9
DB1926	119	101	95	97	106	107	107	79	1.4
PS83	119	103	94	97	102	106	104	88	1.5
S 20-91	119	93	100	97	103	97	100	75	1.1
Tornado	119	104	96	99	102	103	102	73	1.1
CX232	120	104	108	107	110	99	105	73	1.0
J-212	120	102	101	101	100	98	99	81	1.9
OAC Glencoe	120	105	102	103	103	102	103	93	1.4
RCAT Tabby	120	93	103	99	96	100	98	79	1.5
S 24-92	120	106	103	104	107	108	108	77	1.2
Elgin 87	121	102	98	100	94	94	94	81	2.1
RCAT Angora	122	109	101	105	88	102	95	78	2.4
9242	122	100	100	100	108	109	109	94	1.5
9273	122	100	103	102	100	100	100	76	1.2
9281	124	94	99	97	95	97	96	73	1.2
Average yield (T/ha)		3.20	3.03	3.10	4.02	3.60	3.81		
(bu/ac)		48.5	45.9	47.0	60.9	54.5	57.7		

Testing areas: Dutton - Average of 2 trials in 1993 1995.
 Inwood - Average of 3 trials in 1993 1994 1995.
 Ridgetown - Average of 3 trials in 1993 1994 1995.
 Talbotville - Average of 3 trials in 1993 1994 1995.
 CLAY - Average of 5 trials in 1993 1994 1995.
 LOAM - Average of 6 trials in 1993 1994 1995.

TABLE 5. AGRONOMIC DATA 3300 - 3500 HEAT UNIT AREAS

Variety	Days to Mature	CLAY			LOAM			Plant Height (cm)	Lodging 1= Standing 5 = Flat
		Yield Index (%)							
		Tilbury	Woodslee	Average	Chatham	Malden	Average		
S 19-90	113	90	96	93	106	107	106	79	1.2
S 20-20	113	102	104	103	97	94	95	83	1.5
Bell	115	85	88	86	96	93	94	82	2.2
9202	115	93	98	96	101	104	102	79	1.5
CX210	116	100	94	97	100	102	101	97	1.5
G-3202	116	100	100	100	100	103	101	82	1.4
Nankino	116	100	101	101	99	101	100	88	1.4
SaIs 93	116	94	101	98	98	101	99	87	1.6
A2506	117	101	97	99	102	101	101	79	1.3
CX232	117	107	101	105	102	106	104	76	1.3
KG92	117	100	102	101	99	101	100	81	2.1
S 24-92	117	106	98	102	104	104	104	81	1.4
A2615	118	103	100	101	105	107	106	78	1.3
J-251	118	103	100	101	106	97	101	76	1.4
Tecumseh	118	102	98	100	100	98	99	85	1.5
9244	118	100	104	102	104	103	103	81	1.3
A2242	119	103	102	102	99	100	99	79	1.3
Conrad	119	100	101	101	97	90	93	87	1.7
RCAT Angora	119	104	97	101	98	90	94	84	2.4
9273	120	104	102	103	100	98	99	83	1.5
Avenger	121	101	103	102	99	106	103	83	1.7
Quantum	121	103	100	101	101	104	103	87	1.8
RCAT Columbus	121	101	99	100	102	100	101	91	1.6
2240	121	99	106	102	103	100	102	90	1.9
9281	121	104	104	104	101	94	98	78	1.2
A2540	122	89	95	92	95	102	98	88	1.7
Hanlon	122	100	100	100	103	104	104	95	1.6
RCAT Calico	122	95	102	98	100	96	98	84	1.3
AP2880	123	101	95	98	98	103	101	76	1.1
IA2007	123	101	104	103	100	91	95	92	1.9
TS282	123	108	104	106	100	108	104	89	2.4
9305	123	102	103	103	99	106	102	88	1.6
Dominator	125	102	104	103	90	92	91	103	2.1
T2967	125	99	99	99	98	95	97	89	1.5
Average yield	(T/ha)	3.71	3.45	3.58	3.96	4.18	4.07		
	(bu/ac)	56.2	52.3	54.2	60.0	63.3	61.7		

Testing areas: Tilbury - Average of 3 trials in 1993 1994 1995.
Woodslee - Average of 3 trials in 1993 1994 1995.
Chatham - Average of 3 trials in 1993 1994 1995.
Malden - Average of 3 trials in 1993 1994 1995.
CLAY - Average of 6 trials in 1993 1994 1995.

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

AVERAGED OVER 2 TESTS (1995)

<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	103	3.03	122	76	17.7
A2540	3250	114	3.61	146	86	14.6
Susceptible						
Average*	3125	106	2.47	100	68	15.0

* Average represents the mean of 3 susceptible varieties with above average yield potential.

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

**TEST LOCATIONS & SOIL
TYPES - 1995 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	J. & P. 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	43	200,000	Art Griffith
Ridgetown	3250	Clay Loam	60	160,000	R.C.A.T.
Dutton	3100	Clay	60	200,000	Don Skipper
Talbotville	2900	Clay Loam	35	200,000	Tom Oegema
Exeter	2800	Clay Loam	35	200,000	Huron 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

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, NOG 2H0
Tel: 1-800-651-7333 Fax: 519-528-3542

C & M Seeds

RR#3, Palmerston, ON, NOG 2P0
Tel: 519-343-2126 Fax: 519-343-3792

Cargill Hybrid Seeds

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

Ciba Seeds

RR#3, Cottam, ON, NOR 1 B0
Tel: 519-839-4851 Fax: 519-839-4991

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

Hazzard's Farm Service Ltd.

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, NOP 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.

P.O. Box 1417, Chatham ON, N7M 5W8
Tel: 1-800-265-5289 Fax: 519-354-5004

Northrup King Seeds Ltd.

RR#1, Arva, ON
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

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 1T0
Tel: 514-469-5744 Fax: 514-469-4547

Southwest Seeds Inc.

RR#1, Ridgetown, ON
Tel: 519-674-0054 / 519-674-3876

Terra International, c/o Maple Farm Supply

PO Box 21, Thornton, ON, LOL 2N0
Tel: 705-424-1410 Fax: 705-424-3837