

2000 REPORT

Ontario Soybean Variety Trials



Conducted in 1997 - 99

by the

Ontario Oil & Protein
Seed Crop Committee

Web Site:

<http://www.soybean.on.ca>



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; Huron Research Station; University of Guelph; Kemptonville College; Research Centre, Ottawa.

Any reproduction of this report must include at least an entire table. Requests for reproduction must be made to Tom Welacky, Soybean Data Co-ordinator, OOPSCC, c/o Greenhouse & Processing Crops Research Centre, Harrow ON NOR 1G0.

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 2 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). 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 2-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.

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.

PROTEIN & OIL INDEX

Protein Index (%) and Oil (%) is obtainable from Ontario Soybean Growers Marketing Board web site and through access of OMAFRA offices with web site links.

DISEASE RATINGS

Phytophthora root rot testing is carried out on clay soils infested with common races of Phytophthora.

SCN tests are done in collaboration with variety sponsors and the SCN Resistant Variety Development project at GPCRC, Agriculture & Agri-Food Canada, Harrow, Ontario. For further information contact Tom Welacky.

White Mold variety ratings are available for several heat unit areas on the Ontario Soybean Growers marketing Board web site and through access of OMAFRA offices with web site links.

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. **All test locations were managed with conventional herbicide programs.**

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 and 1998).

Agronomic data in Tables 2 & 3 represent 1-3 year averages of individual locations as well as a 2-year and a 3-year average of all locations. Agronomic data in Tables 4 & 5 have been split on a soil type basis; data from 1-3 years of testing are provided for each location.

INTERPRETATION OF TABLE 1 NOTES:

Varieties with resistance genes for races of the Phytophthora root rot organism in Ontario:

1C & 1K Each gives resistance to most races but some races controlled by one gene are not controlled by the other gene.

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

Herbicide Reaction:

MS Metribuzin herbicide should not be used on these varieties.

RR Roundup Ready™ (Trademark of Monsanto Company)

STS Sulfonylurea Tolerant Soybean to Reliance (STS & Reliance are trademarks of E.I. du Pont de Nemours & Co.)

Phytophthora Root Rot % Plant Loss:

Two-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.

**TABLE 1. ONTARIO 2000 SOYBEAN VARIETY
PERFORMANCE LIST & DESCRIPTIONS**

<i>Variety</i>	<i>Notes</i>	<i>Herbi- cide Reaction</i>	<i>Heat Unit Rating</i>	<i>Hilum Colour</i>	<i>Seeds per Kg</i>	<i>Phytophthora Root Rot % Plant Loss</i>	<i>Seed Avail- ability</i>	<i>Distributor</i>
Gentleman			2400	BR	5900	6		Semican Atlantic Inc.
Accord			2450	LBR	6000	11		Advantage Seed Grow&Proc
Corona			2450	BR	5800	5		Hyland Seeds
OAC Klondike			2450	BR	5400	12		SECAN Members
OAC Salem			2500	IV	5500	8		Agrocentre Belcan
PS 32			2500	BR	5900	14		Pride Seeds
Fiston			2525	BR	6500	8		Semences Laquerre Inc.
Medallion			2525	BF	5500	14		Semican Atlantic Inc.
OAC Nepean			2525	BR	5500	3		SECAN Members
OAC Walton			2525	BR	5200	16		PRO Seeds of Canada
Altesse			2550	DBR	5800	10		SECAN Members
HS 2578			2550	IV	5100	10		GROWMARK Inc.
HS 2688		MS	2550	BR	5100	8		GROWMARK Inc.
S 00-66			2550	BR	5300	4		Novartis Seeds Inc.
AC Proteina			2575	BR	6100	11		Semican Atlantic Inc.
Aquilon			2575	BL	4900	8		Advantage Seed Grow&Proc
Maple Glen			2600	IV	5000	13		SECAN Members
OAC Atwood			2600	Y	5600	12		Advantage Seed Grow&Proc
OAC Erin			2600	Y	6900	14		PRO Seeds of Canada
PS 36			2600	Y	5000	17		Pride Seeds
HS 2689			2625	BR	5200	6		GROWMARK Inc.
OAC Wingham			2625	BR	6000	13		SECAN Members
Cabot			2650	BR	5300	6	LS	First Line Seeds Ltd.
DB1979			2650	BR	4700	13		Advantage Seed Grow&Proc
DKB00-99		RR	2650	BR	5600	2		First Line Seeds Ltd.
Korada	1c		2650	IV	5300	6		DEKALB
KG 41			2675	IV	5300	6		Pride Seeds
OAC Clinton			2675	IY	5300	1		PRO Seeds of Canada
OAC Millennium			2675	BR	6300	7		PRO Seeds of Canada
PS 42			2675	IV	4900	7		Pride Seeds
S03-w4	1c		2675	IY	5000	5		Novartis Seeds Inc.
Achiever			2700	IY	5300	7		Mapleseed Inc.
OAC Brussels			2700	BR	4900	10		SECAN Members
OAC Lucknow			2700	GR	5200	6		SECAN Members
SIERRA			2700	IY	4300	2		PRO Seeds of Canada
2601 R	1c	RR	2700	BR	5300	7		First Line Seeds Ltd.
9063			2700	GR	5400	5		Pioneer Hi-Bred Ltd.
AC 2001			2725	BR	5500	13		SECAN Members
HS 2778		MS	2725	LBR	5300	9		GROWMARK Inc.
OAC Auburn			2725	LBR	5200	13		Advantage Seed Grow&Proc
03-C3			2725	IV	4900	9		Novartis Seeds Inc.
2701 R	1c	RR	2725	BR	5200	5		First Line Seeds Ltd.
CX066			2750	BR	5300	10		DEKALB
OAC Bayfield			2750	BR	5100	9		SECAN Members
PS 50			2750	BR	4900	5		Pride Seeds
PS 55			2750	BR	5500	10		Pride Seeds
RR Robust		RR	2750	BR	4700	6	LS	Hyland Seeds
S 07-57			2750	BR	5400	4		Novartis Seeds Inc.
Enterprise			2775	IV	5000	7		Hyland Seeds
Fiesta			2775	BR	5300	2		PRO Seeds of Canada
Maverick			2775	IY	4700	2		Hyland Seeds
9071	1c		2775	Y	6100	6		Pioneer Hi-Bred Ltd.
AC Bravor	1c		2800	BR	5400	5		First Line Seeds Ltd.
MS0747			2800	BR	5500	4		Mapleseed Inc.
OAC Eclipse	1c		2800	BR	5200	6		SECAN Members
Zephyr			2800	IY	5200	13		First Line Seeds Ltd.
2702R		RR	2800	BL	5400	9		First Line Seeds Ltd.
Amberley	1c		2825	GR	5700	6		Mapleseed Inc.
91801	1k		2825	BL	5900	7		Pioneer Hi-Bred Ltd.
Bounty		MS	2850	Y	5400	10		Hyland Seeds
HS 2888	1c		2850	GR	5600	5		GROWMARK Inc.
OAC Oxford			2850	IV	5200	3		SECAN Members
OAC Stratford			2850	BF	4800	4		PRO Seeds of Canada
S 08-80	1c		2850	Y	4900	5		Novartis Seeds Inc.
Arva			2875	Y	5400	3		Advantage Seed Grow&Proc
Marathon			2875	Y	5100	7		Hyland Seeds
PS 63			2875	LBF	6100	6		Pride Seeds
2801 R		RR	2875	BL	5900	4		First Line Seeds Ltd.

**TABLE 1. ONTARIO 2000 SOYBEAN VARIETY
PERFORMANCE LIST & DESCRIPTIONS (Continued)**

<i>Variety</i>	<i>Notes</i>	<i>Herbi- cide Reaction</i>	<i>Heat Unit Rating</i>	<i>Hilum Colour</i>	<i>Seeds per Kg</i>	<i>Phytophthora Root Rot % Plant Loss</i>	<i>Seed Avail- ability</i>	<i>Distributor</i>
A0868	1k		2900	Y	5800	4		Cargill Hybrid Seeds
CX101RR	1a	RR	2900	BR	6400	5		DEKALB Canada Inc.
OAC Exeter			2900	Y	4900	3		First Line Seeds Ltd.
PRO 282			2900	BR	6100	6		PRO Seeds of Canada
PRO 285			2900	BF	5100	7		PRO Seeds of Canada
9132	1c		2900	BL	5600	5		Pioneer Hi-Bred Ltd.
HS 2988			2925	BR	5400	3		GROWMARK Inc.
M-080	1k		2925	BR	5500	3		Mycogen Canada
PS 66 RR		RR	2925	BR	5200	7		Pride Seeds
RCAT Bobcat			2925	IV	5000	11		SECAN Members
Sentry			2925	IY	5200	8		Hyland Seeds
Squire			2925	IY	5300	12		First Line Seeds Ltd.
140	1k		2925	BR	5300	5	NA	Mycogen Canada
9163	1c		2925	Y	6000	4		Pioneer Hi-Bred Ltd.
Crystal			2950	Y	5500	4	LS	Hyland Seeds
PS 77	1c		2950	Y	5100	6		Pride Seeds
Telstar			2950	BR	5300	4		Hyland Seeds
A1553	1k		2975	BL	6300	4		Cargill Hybrid Seeds
DKB15-15			2975	GR	5100	4		DEKALB
Moore			2975	BL	5900	3	LS	Hyland Seeds
PRO 295			2975	BL	5900	3		PRO Seeds of Canada
PS 73			2975	LBF	5400	5		Pride Seeds
S 14-H4			2975	BL	4700	4		Novartis Seeds Inc.
S 14-M7	1c		2975	GR	5200	3		Novartis Seeds Inc.
T8508			2975	BR	5200	3		Hyland Seeds
2901R	1c	RR	2975	BR	5400	7	LS	First Line Seeds Ltd.
AP1876	1k		3000	BL	5100	5		Mapleseed Inc.
A1923	1k		3000	BL	5200	3		Cargill Hybrid Seeds
Crusher			3000	BL	5700	10		SECAN Members
CX173	1c		3000	BL	6600	9		DEKALB Canada Inc.
HS 3078	1k		3000	BL	5700	6		GROWMARK Inc.
OAC Bright			3000	Y	5000	7		First Line Seeds Ltd.
PRO 292			3000	BR	5300	19		PRO Seeds of Canada
RR Rambler		RR	3000	BR	5000	1		Hyland Seeds
RR Reign		RR	3000	BR	6900	7		Hyland Seeds
Sapphire			3000	Y	5500	17		Hyland Seeds
5155			3000	BR	5200	9		Mycogen Canada
92B05	1k	RR	3000	BR	5900	1		Pioneer Hi-Bred Ltd.
AG1901	1k	RR	3025	BL	5900	3		Monsanto Canada
A2161	1k		3025	IBL	5800	3		Cargill Hybrid Seeds
M-210			3025	Y	5500	14		Mycogen Canada
PS 84 SCN	SCN		3025	BR	4900	6		Pride Seeds
S 18-11	SCN		3025	BL	4100	6		Novartis Seeds Inc.
S 19-90	1c		3025	GR	4700	4		Novartis Seeds Inc.
Stine 2500			3025	IY	5600	7		Advantage Seed Grow&Proc
Westag 97			3025	BF	5000	6		SECAN Members
3001 S	1k	STS	3025	IBL	5400	4		First Line Seeds Ltd.
AG2101	1k	RR	3050	BL	6000	2		First Line Seeds Ltd.
A2069	SCN 1k		3050	BL	5400	2		First Line Seeds Ltd.
Bailey	SCN		3050	BL	5600	4		Hyland Seeds
Bennett			3050	BL	4800	6		First Line Seeds Ltd.
CX205	1c		3050	GR	5900	6		DEKALB
DKB20-10	1k	RR	3050	BL	5100	2		DEKALB
HS 3168			3050	BF	5200	7		GROWMARK Inc.
Nankino			3050	IBL	5800	8		Hyland Seeds
PS 86 RR	1k	RR	3050	BL	5500	2		Pride Seeds
RR Reward		RR	3050	BL	6300	7		Hyland Seeds
S20-F8	1c		3050	Y	5200	8		Novartis Seeds Inc.

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PERFORMANCE LIST & DESCRIPTIONS (Continued)**

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Tornado			3050	IY	5100	6		Hyland Seeds
200			3050	BL	5700	5		Mycogen Canada
HS3009RR		RR	3075	BL	6200	9		GROWMARK Inc.
Hammer	SCN		3075	BR	6400	3		Hyland Seeds
Ivory			3075	Y	5200	5		First Line Seeds Ltd.
OAC Glencoe			3075	BR	5600	7		SECAN Members
PS 83			3075	Y	5500	29		Pride Seeds
RCAT Legacy			3075	Y	4500	4		SECAN Members
Stratus			3075	BR	4600	5		Hyland Seeds
519-T9	1c		3075	GR	4800	0		Novartis Seeds Inc.
S20-B9	1c	RR	3075	GR	5000	9		Novartis Seeds Inc.
9234	SCN		3075	BR	5700	6		Pioneer Hi-Bred Ltd.
CX229	1c		3100	GR	5400	4		DEKALB
CX232			3100	BR	5300	8		DEKALB
Kenwood 94	1k		3100	BL	5800	3		SECAN Members
RR Renown		RR	3100	BL	5500	3		Hyland Seeds
S 24-12			3100	unknown	4900	6		Novartis Seeds Inc.
S24-L2	1c		3100	BR	4900	5		Novartis Seeds Inc.
Wizard	1k		3100	BL	5700	4		First Line Seeds Ltd.
92B51	1k	RR	3100	BL	6000	2		Pioneer Hi-Bred Ltd.
HS 3268			3125	unknown	5400	2		GROWMARK Inc.
J-251			3125	BR	5400	4		Mycogen Canada
PRO 315	1k		3125	BL	5000	4		PRO Seeds of Canada
RS2595	1k		3125	BL	5300	3		Renk Seed Co. of Canada
TS210			3125	BR	5500	7		Southwest Seeds
3101R		RR	3125	IBL	5400	7		First Line Seeds Ltd.
92B61	1k		3125	BL	5500	2		Pioneer Hi-Bred Ltd.
Alex	1k	STS	3150	IBL	5400	3		Advantage Seed Grow&Proc
A2540	SCN		3150	BF	6600	7		Cargill Hybrid Seeds
A2553	1k		3150	IBL	5700	4		Cargill Hybrid Seeds
CX235C	SCN		3150	BL	5600	4		DEKALB
RCAT Angora	1c		3150	Y	5500	4		SECAN Members
RR Renwick		RR	3150	BL	5600	2		Hyland Seeds
Starburst			3150	Y	5400	2		Hyland Seeds
RCAT Columbus			3175	BL	5400	6		Ferguson Seeds
RCAT Staples			3175	BR	4800	11		SECAN Members
Coatsworth			3200	Y	5600	3		Hyland Seeds
Nemecys 28	SCN 1k		3200	BL	5900	5		First Line Seeds Ltd.
3201R		RR	3200	BR	6300	7		First Line Seeds Ltd.
5261			3200	BL	5600	10		Mycogen Canada
92B91	SCN		3200	Y	6400	4		Pioneer Hi-Bred Ltd.
S28-V8	1a	RR	3225	GR	6000	7		Novartis Seeds Inc.
S29-C9	1a	RR	3225	BR	5800	4		Novartis Seeds Inc.
9305	1k		3225	Y	5300	2		Pioneer Hi-Bred Ltd.
SW 33-08			3375	Y	5600	3		Southwest Seeds

Varieties registered but deferred.

Costaud			0	Y	4800	3		Agrocentre Belcan
Laser	1c	RR	0	GR	5700	17		Cooperative Federee Quebe
OAC Prudence			2450	Y	4600	7		SECAN Members
S 30-K3		RR	0	unknown	5600	3		Novartis Seeds Inc.
OAC Embro			2775	BR	0	8		Semican Atlantic Inc.

LS – Limited Supply
NA – Not Available

All data in Table 1 are 2-year (98-99) Averages.

TABLE 2. AGRONOMIC DATA 2500 - 2800 HEAT UNIT AREAS

Variety	Days to Mature	Yield Index (%)										Plant Height (cm)	Lodging 1=Standing 5 = Flat
		Brussels		Elora		Ottawa		Winchester		Average			
		2yr	3yr	2yr	3yr	2yr	3yr	2yr	3yr	2yr	3yr		
Gentleman	103	74	74	78	81	81	82	81	83	79	80	67	1.2
Accord	105	80	80	93	94	92	90	90	96	89	90	82	1.3
Corona	105	90	89	94	94	71	77	86	84	85	86	77	1.4
OAC Klondike	105	93	94	99	99	72	72	86	87	87	88	64	1.1
OAC Salem	106	92	91	95	93	100	97	94	92	96	94	73	1.2
PS 32	106	81	85	88	90	72	74	81	84	81	84	65	1.1
Fiston	107	90	88	83	86	70	74	86	87	82	84	72	1.2
Medallion	107	94	91	95	95	87	89	92	91	92	91	72	1.3
OAC Nepean	107	97	-	95	-	96	-	95	-	96	-	63	1.1
OAC Walton	107	94	96	102	102	95	96	95	90	97	96	80	1.4
Altesse	108	95	93	93	95	93	94	98	100	95	96	80	1.4
HS 2578	108	89	91	94	94	91	88	97	96	93	92	81	1.3
HS 2688	108	76	79	87	89	92	94	91	88	87	88	59	1.0
S 00-66	108	94	96	101	98	97	94	101	102	98	98	73	1.1
AC Proteina	109	61	68	78	82	94	94	92	93	82	85	74	1.0
Aquilon	109	86	86	96	96	93	91	91	91	92	91	76	1.5
Maple Glen	110	89	93	94	96	94	94	92	92	92	94	72	1.0
OAC Erin	110	93	94	104	102	100	99	100	99	100	99	71	1.2
PS 36	110	99	100	102	102	105	104	101	102	102	102	84	1.1
OAC Atwood	111	104	105	104	105	99	97	103	103	102	102	73	1.2
HS 2689	112	100	101	102	103	104	102	101	98	102	101	73	1.2
OAC Wingham	112	105	106	100	102	92	94	102	102	100	101	70	1.0
Cabot	113	108	109	102	103	106	106	102	101	104	104	77	1.3
DB1979	113	96	99	100	101	99	98	102	98	99	99	70	1.0
DKB00-99	113	94	-	100	-	96	-	102	-	98	-	82	1.1
Korada	113	115	113	103	103	108	110	106	111	107	109	66	1.1
KG 41	114	91	92	92	94	100	102	104	105	97	99	74	1.0
OAC Clinton	114	115	-	112	-	111	-	101	-	110	-	82	1.2
OAC Millennium	114	99	98	105	106	98	102	106	106	102	103	72	1.0
PS 42	114	102	103	102	103	101	102	109	107	104	103	71	1.1
S03-W4	114	111	112	110	108	116	116	113	113	112	112	79	1.0
OAC Brussels	115	104	104	104	106	95	99	108	110	103	105	69	1.1
OAC Lucknow	115	108	108	106	106	101	103	97	98	103	104	76	1.1
SIERRA	115	102	-	111	-	102	-	108	-	106	-	79	1.2
2601R	115	90	92	92	95	100	100	100	98	96	96	79	1.1
9063	115	107	99	110	107	109	109	102	105	107	105	74	1.0
Achiever	116	114	110	106	106	107	108	106	104	108	107	89	1.5
AC 2001	116	110	107	105	106	117	113	100	102	108	107	90	2.0
HS 2778	116	110	109	100	101	102	106	95	98	101	103	61	1.0
S03-C3	116	96	101	98	99	104	99	98	100	99	100	80	1.1
2701R	116	96	96	94	94	97	99	98	101	96	98	76	1.0
CX066	117	110	112	108	109	109	107	113	114	110	111	82	1.1
OAC Auburn	117	111	114	109	110	110	110	104	102	108	109	79	1.1
OAC Bayfield	117	121	120	109	108	114	112	104	105	111	111	82	1.3
PS 50	117	112	113	106	106	108	106	102	104	107	107	84	1.3
PS 55	117	114	110	105	104	117	114	108	111	110	110	87	1.2
RR Robust	117	101	-	100	-	103	-	101	-	101	-	87	1.2
S07-57	117	108	110	102	104	109	106	104	106	106	107	73	1.0
Enterprise	118	124	123	108	107	113	116	111	109	114	113	76	1.0
Maverick	118	113	-	111	-	115	-	112	-	113	-	75	1.3
9071	118	110	104	106	107	111	115	116	120	111	112	77	1.3
AC Bravor	119	107	104	97	99	107	108	94	98	101	102	83	1.3
Zephyr	119	116	121	104	106	107	114	110	107	109	112	81	1.4
2702R	119	106	110	97	100	104	107	109	108	104	106	78	1.0
OAC Eclipse	120	105	107	105	105	117	115	100	101	107	107	87	1.2
Average yield (T/ha)		2.62	2.62	3.50	3.22	3.20	2.96	3.57	3.25	3.22	3.01		
Average yield (bu/ac)		39.8	39.8	53.2	49.0	48.7	44.9	54.4	49.4	49.0	45.8		

TABLE 3. AGRONOMIC DATA 2700 - 2900 HEAT UNIT AREAS

Variety	Days to Mature	Yield Index (%)										Plant Height (cm)	Lodging 1=Standing 5=Flat
		Exeter		St Pauls		Winchester		Woodstock		Average			
		1 yr	*97/99	2yr	3yr	2yr	3yr	2yr	3yr	2yr	3yr		
OAC Auburn	112	96	99	96	95	80	80	96	96	91	90	79	1.7
OAC Bayfield	112	100	95	92	91	100	92	92	89	95	91	78	1.8
Fiesta	113	98	99	92	94	101	102	96	97	96	98	66	1.0
MS0747	114	91	95	95	95	89	88	101	102	95	95	85	1.6
Amberly	115	89	94	97	97	105	101	103	100	102	99	88	1.3
91B01	115	99	98	101	101	91	98	96	93	96	97	79	1.5
Bounty	116	98	96	91	92	103	103	98	96	97	97	77	1.2
HS 2888	116	103	103	102	100	98	95	100	101	100	99	86	1.7
OAC Oxford	116	96	-	102	-	105	-	101	-	103	-	85	1.4
OAC Stratford	116	107	103	99	98	106	102	107	105	104	102	82	1.9
S08-80	116	97	98	99	100	99	100	101	102	100	101	83	1.3
Arva	117	104	101	102	101	101	102	101	103	101	102	80	1.5
Marathon	117	106	100	97	95	90	88	95	97	94	93	86	1.9
PS 63	117	69	86	89	91	89	91	83	86	87	89	82	1.3
2801R	117	96	90	93	90	93	89	89	88	92	89	85	1.6
A0868	118	96	96	107	105	103	105	101	101	104	104	78	1.6
CX101RR	118		92	97	98	93	94	89	91	93	94	86	1.5
OAC Exeter	118	95	93	95	93	98	95	90	93	94	94	80	1.5
PRO 282	118	108	108	103	104	108	109	105	105	105	106	80	1.4
PRO 285	118	98	103	106	106	101	99	106	103	104	103	91	1.9
RCAT Bobcat	118	113	107	106	105	97	98	107	106	103	103	85	1.6
9132	118	94	95	95	99	98	103	104	101	99	101	75	1.3
HS 2988	119	102	99	104	104	112	109	100	101	105	105	84	1.3
M-080	119	88	94	99	100	113	110	98	98	103	103	84	1.3
PS66RR	119	94	-	84	-	94	-	87	-	88	-	82	1.4
Sentry	119	113	107	103	100	105	100	103	102	104	101	84	1.8
Crystal	120	101	97	101	99	103	102	104	101	103	101	80	1.4
Telstar	120	111	110	104	105	106	106	97	102	102	104	85	1.8
A1553	121	105	104	109	109	94	101	105	105	103	105	75	1.7
DKB15-15	121	105	106	110	107	106	103	104	104	107	105	90	1.9
PS73	121	106	108	107	105	110	108	107	104	108	106	88	1.4
S14-H4	121	104	103	101	103	105	106	98	98	101	102	82	1.2
S14-M7	121	97	97	91	92	94	92	90	89	92	91	82	1.3
T8508	121	105	104	103	104	104	101	107	107	105	104	88	1.4
M oore	122	104	101	109	107	96	99	107	108	104	105	79	1.5
PRO 295	122	100	101	106	103	110	107	110	108	109	106	92	1.5
2901R	122	95	-	104	-	97	-	102	-	101	-	84	1.5
PRO 292	123	108	109	109	111	116	116	111	110	112	112	84	1.6
RR Rambler	123	99	-	95	-	85	-	97	-	92	-	83	1.7
5155	123	101	-	106	-	100	-	99	-	102	-	80	1.3
RR Reign	124	99	-	98	-	90	-	94	-	94	-	86	1.7
Average yield (T/ha)		3.21	3.44	3.58	3.59	3.40	3.28	3.19	3.14	3.39	3.34		
Average yield (bu/ac)		48.9	52.3	54.5	54.6	51.8	49.9	48.5	47.8	51.6	50.8		

Testing areas: Table 2

Brussels	1997	1998	1999
Elora	1997	1998	1999
Ottawa	1997	1998	1999
Winchester	1997	1998	1999

Testing areas: Table 3

Exeter	1997	-	1999
St. Pauls	1997	1999	1999
Winchester	1997	1998	1999
Woodstock	1997	1998	1999

TABLE 4. AGRONOMIC DATA 2900 - 3300 HEAT UNIT AREAS

YIELD INDEX (%)

Variety	Days to Mature	C L A Y								Plant Height (cm)	Lodging 1=Standing 5 = Flat
		Dutton			L O A M						
		Lyr	*97/98	Inwood 2yr	3yr	Ridgetown 2yr	3 yr	Talbotville 2yr	3yr		
RCAT Bobcat	117	103	98	94	95	99	100	97	95	77	1.8
Squire	117	96	99	93	93	99	101	99	102	73	2.0
140	117	96	97	92	93	96	98	99	98	86	1.7
9163	117	98	98	95	95	102	103	96	97	85	1.7
PS 77	118	99	99	93	95	98	98	101	99	74	2.1
AP1876	119	102	101	98	99	96	96	103	101	84	2.1
A1923	119	99	101	102	100	108	105	102	102	76	1.4
Crusher	119	107	107	99	99	95	94	95	96	91	1.9
CX173	119	94	95	96	97	100	100	103	101	86	1.5
HS 3078	119	99	99	99	97	93	94	103	102	74	1.9
OAC Bright	119	99	100	105	101	96	99	105	102	83	1.9
Sapphire	119	105	96	96	98	101	99	100	102	79	1.9
Stine 2500	119	94	98	96	98	110	108	102	102	77	1.8
92805	119	99	-	93	-	101	-	93	-	78	1.5
AG1901	120	96	99	96	97	92	95	106	104	90	1.8
A2161	120	103	103	91	93	99	99	106	103	81	2.1
M-210	120	103	106	105	102	99	99	105	103	84	1.8
PS 84 SCN	120	97	96	97	97	91	94	101	98	78	2.0
S 18-11	120	95	94	96	94	100	97	93	95	74	2.0
S 19-90	120	95	97	92	94	98	98	94	94	79	1.6
Westag 97	120	114	112	108	108	105	103	104	104	76	2.3
3001S	120	98	101	99	100	100	101	99	98	88	2.2
A2069	121	104	107	102	102	107	104	99	100	73	1.4
Bailey	121	91	95	93	95	98	98	95	95	75	1.5
Bennett	121	94	93	103	101	100	103	108	106	90	1.8
CX205	121	101	99	98	98	102	104	104	102	89	2.1
DKB20-10	121	93		96	-	100	-	98	-	76	1.6
HS 3168	121	99	98	101	100	96	98	99	99	80	1.7
PS 86 RR	121	99	101	98	97	98	96	95	96	83	1.9
S20-F8	121	108	104	99	102	109	106	102	104	83	1.4
Tornado	121	100	103	98	99	101	100	98	97	77	1.3
200	121	103	104	104	101	106	106	104	105	75	1.3
AG2101	122	104	101	100	99	98	97	100	102	84	1.3
Ivory	122	104	105	96	100	111	108	110	109	75	1.5
OAC Glencoe	122	93	97	109	106	104	102	106	104	96	1.6
PS 83	122	92	89	96	99	94	96	98	100	92	2.0
RCAT Legacy	122	97	100	103	106	99	100	100	102	68	2.0
S19-19	122	105		97	-	104	-	106	-	81	1.6
S20-B9	122	90	90	93	93	94	93	91	91	87	1.6
CX229	123	109	104	91	97	106	106	98	101	81	1.8
CX232	123	106	104	103	102	102	104	102	102	76	1.2
Kenwood 94	123	99	105	107	105	99	100	99	99	92	2.0
RR Renown	123	97	98	104	99	94	95	103	101	85	1.8
S 24-12	123	105	102	103	106	106	104	95	97	79	1.8
HS 3268	124	100		112		104	-	103	-	83	1.5
PRO 315	124	100	99	110	106	94	96	99	101	86	1.5
RS2595	124	106	106	103	105	106	104	101	102	81	1.6
TS210	124	104	106	107	105	109	106	100	100	83	1.4
3101R	124	100	92	97	96	102	104	97	97	86	1.5
92861	124	109	105	111	112	102	103	102	104	88	1.9
Alex	125	110	108	106	105	95	95	101	102	92	1.9
CX235c	125	101	98	111	108	97	97	99	96	84	1.4
RCAT Angora	126	99	100	112	108	97	101	95	96	84	2.6
Average yield (T/ha)		4.41	3.54	3.57	3.41	4.37	4.20	3.93	3.90		
Average yield (bu/ac)		67.1	53.8	54.3	51.9	66.5	63.9	59.8	59.4		

*97/98 Dutton 2-year average based on 1997 and 1998.

TABLE 5. AGRONOMIC DATA 3300 - 3500 HEAT UNIT AREAS

Variety	Days to Mature	YIELD INDEX (%)					Plant Height (cm)	Lodging 1=Standing 5 = Flat
		CLAY			LOAM			
		Tilbury 2yr	Woodslee 2yr	3yr	Chatham 2yr	Malden 1yr		
Stine 2500	111	91	100	102	105	103	66	1.2
S 19-90	111	93	89	93	99	106	68	1.3
Nankino	113	95	102	103	101	104	75	1.4
RR Reward	113	93	96	93	92	93	73	1.5
CX232	114	100	97	98	102	104	66	1.2
HS3009RR	114	96	91	92	94	90	87	2.3
Hammer	114	94	95	94	98	95	77	2.6
Stratus	114	101	99	103	99	101	74	1.8
S24-12	114	97	102	100	99	105	68	1.2
9234	114	92	93	92	91	96	72	2.3
Kenwood 94	115	105	107	105	94	99	78	2.5
S24-L2	115	99	103	-	104	-	69	1.0
Wizard	115	95	104	103	96	102	71	1.3
92B51	115	94	86	89	94	97	71	1.5
J-251	116	105	103	104	109	101	66	1.4
92B61	116	107	108	105	101	98	74	2.4
A2540	117	107	100	99	94	82	78	2.0
A2553	117	105	102	104	106	111	65	1.0
CX235c	117	103	102	-	99	-	73	1.7
RR Renwick	117	103	96	98	106	97	77	1.9
Starburst	117	97	105	104	100	96	70	1.9
RCAT Columbus	118	105	99	99	96	104	79	2.0
RCAT Staples	118	107	114	113	103	113	82	2.1
Coatsworth	119	103	105	106	97	101	76	2.4
Nemecys 28	119	103	96	99	92	101	75	1.7
3201R	119	94	98	99	102	95	82	2.6
5261	119	106	102	105	111	104	72	1.1
92B91	119	104	96	98	105	105	85	2.8
S29-C9	120	97	105	-	106	-	84	2.2
S28-V8	120	96	96	94	100	95	76	1.5
9305	120	108	108	107	98	100	76	2.0
SW 33-08	126	100	113	108	104	101	84	2.1
Average yield (T/ha)		3.28	3.71	3.59	4.56	4.26		
Average yield (bu/ac)		49.8	56.5	54.6	69.3	64.8		

Testing areas: Table 4

Dutton	1997	1998	-
Inwood	1997	1998	1999
Ridgetown	1997	1998	1999
Talbotville	1997	1998	1999

Testing areas: Table 5

Chatham	-	1998	1999
Malden	1997	-	-
Tilbury	-	1998	1999
Woodslee	1997	1998	1999

TEST LOCATIONS & SOIL TYPES - 1999 TRIALS

Location	Heat Unit Rating	Soil Type	Row Width (cm)	Seeding Rate (plants/ac)	Co-operator
Chatham	3300	Clay Loam	60	160,000	Stan Wonnacott
Woodslee	3400	Clay	60	240,000	Research Centre
Tilbury	3350	Clay	60	240,000	Grant Guy
Inwood	3050	Clay	43	200,000	Jeff Lassoline
Ridgetown	3250	Clay Loam	43	160,000	R.C.A.T.
Talbotville	2900	Clay Loam	35	200,000	Tom Oegema
Woodstock	2700	Clay Loam	35	200,000	Bob Hart
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	Scott Cardiff
Ottawa	2650	Clay Loam	40	200,000	Research Centre

TABLE 6. RESISTANT VARIETY PERFORMANCE IN SCN INFESTED FIELDS

Variety	Days to Maturity	Yield* Index (%)
Average of 6 tests (1997-1999)		
S18-11	111	143
Bailey	111	142
PS 84 SCN	111	140
A2069	112	144
Hammer	113	144
CX235c	115	145
A2540	115	136
Nemecys 28	118	145
Susceptible Yield Index is		100
which is 2.49 T/ha or 37bu/ac (Chatham)		
and 2.79 or 41.4bu/ac (Ruthven)		
Average of 5 tests (1997-1999)		
9234	114	139
92B91	120	162
Susceptible Yield Index is		100
which is 2.66 T/ha or 39.6 bu/ac		

Yield Index is based on 3 high yielding varieties in each location. Test locations had moderate to high SCN infestations. Resistance source is PI88788 in all varieties except 9234 which has Peking resistance.

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

Agrocentre Belcan Inc.

180 Mt. Ste. Marie, Ste. Marthe QC, JOP 1W0

Tel: 1-800-537-5157 Fax: 514-459-4216

Cargill Hybrid Seeds

P.O. Box 490, Princeton ON, NOJ 1 B0

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

301 Richmond St, Chatham ON, N7M 1P5

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.

Research Park Centre, Suite 307, 150 Research Lane

Guelph, ON N1G 4T2

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, 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.

305 Consortium Court, London ON, N6E 2S8

Tel: 1-800-265-5289

Novartis Seeds Ltd.

RR#1, Arva, ON NOM 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 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, NOP 1A0

Tel: 519-676-4202 Fax: 519-354-8603

SeCan Association

200-57 Auriga Drive, Nepean ON, K2E 8B2

Tel: 1-800-764-5487 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