



2003

REPORT

Ontario Soybean Variety Trials

for 2000-2002

by the
Ontario Oil & Protein
Seed Crop Committee

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CROP COMMITTEE

Research conducted and reported by

UNIVERSITY
of **GUELPH**

- Ridgetown College
- Kemptville College



Agriculture and Agri-Food Canada Agriculture et Agroalimentaire Canada

- Harrow - GPCRC
- Ottawa - ECORC



- Ontario Ministry of Agriculture & Food

This publication was made possible by a grant from the Ontario Soybean Growers



www.soybean.on.ca

Ontario Oil & Protein Seed Crop Committee (OOPSCC)

This organization is comprised of representatives of Agriculture & Agri-Food Canada, the University of Guelph, the Ontario Seed Growers Association, the Canadian Seed Trade Association, the Ontario Soybean Growers, OMAF and the Oilseed Crushers. Tests are conducted each year by AAFC research centres at Ottawa and Harrow and the University of Guelph and its regional Colleges at Kemptville and Ridgeway.

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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

HP: Varieties with above average protein index (%). See Protein & Oil Index section below.

Herbicide Reaction

MS: Metribuzin herbicide should not be used on these varieties

RR: Roundup Ready™ (Trademark of Monsanto Company)

STS: Sulfonyleurea Tolerant Soybean to Reliance (STS & Reliance are trademarks of E.I. duPont de Nemours & Co.)

Heat Unit Grouping

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. The varieties are placed into groups of 50 heat units. The varieties are sorted in early to late order within the 50 heat unit group. In choosing a variety you should select those varieties approximately equal to or less than the heat units available on your farm.

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 (GR), Buff (BF), Brown (BR), Black (BL), or Imperfect Black (IBL). Hilum colour may also be Light (L). Yellow hilum soybeans are usually the only type accepted for the export market. In certain years 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.

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.

Disease Testing Information

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, NOR 1G0. For further information contact the SCN Coordinator at this address. White Mold variety ratings are available for several heat unit areas on the Ontario Soybean Growers web site.

Protein & Oil Index

Protein Index (%) and Oil (%) is obtainable from Ontario Soybean Growers web site.

Table 1. Soybean Variety Performance List and Descriptions

(Revised on Dec. 10, 2002)

Variety	Notes	Herbicide Reaction	Heat Unit Grouping	Hilum Colour	Seeds per Kg	Phytophthora Root Rot % Plant loss	Seed Supply	Distributor
Gentleman			2400	BR	6100	5		Semican Inc.
DKB005-51		RR		IY	5800	2		First Line Seeds Ltd.
90A07			2450	Y	6300	5		Pioneer Hi-Bred Ltd.
Accord				IY	6900	2		Advantage Seed Grow&Proc
AC Proteina		HP	2500	BR	6900	11		Semican Inc.
PS 36				Y	5900	7		Pride Seeds
Primo RR		RR		BL	5900	5	NA	PRO Seeds of Canada
PRO 25-53				IY	5300	8		PRO Seeds of Canada
Albinos				IY	5900	8		Semican Inc.
Emerson				BR	6500	2		Hyland Seeds
S 00-66				BR	5800	3		Syngenta Seeds Canada Inc
2502R	1a	RR		BL	6200	5	LS	First Line Seeds Ltd.
OAC Morris				IY	5200	5	LS	PRO Seeds of Canada
DKB00-65				IY	6000	21		DEKALB
OAC Atwood			2550	IY	6800	8		Advantage Seed Grow&Proc
AC Rodeo				IY	6800	7		Semican Inc.
OAC Clinton				IY	6500	6		PRO Seeds of Canada
AC Orford				IY	5100	2		Semican Inc.
OAC Walton				DBR	5500	16		Rosebank Seeds
PRO 26-03				IY	5900	4		PRO Seeds of Canada
Quincy				IY	5800	6		Hyland Seeds
Carlton		MS		Y	6600	15		Hyland Seeds
Supra	1c			IY	5100	10	LS	Advantage Seed Grow&Proc
DKB00-99		RR		BR	6400	7		DEKALB
S 02-G2	1c	RR	2600	BR	6300	2		Syngenta Seeds Canada Inc
ADV Accrue				BR	6200	5	LS	Advantage Seed Grow&Proc
PS 46 RR		RR		BL	5500	1		Pride Seeds
2601R	1c	RR		BR	6100	5		First Line Seeds Ltd.
Maple Glen				IY	5500	4		SeCan Association
AC Glengarry				IY	5700	3		SeCan Association
S00-A6				Y	5800	5		Syngenta Seeds Canada Inc
90B11		RR		BR	6700	11		Pioneer Hi-Bred Ltd.
S03-W4	1c		2650	IY	5400	6		Syngenta Seeds Canada Inc
OAC Bayfield				BR	5600	8		SeCan Association
OAC Brussels				BR	5600	4		SeCan Association
OAC Champion				IY	5500	6	LS	PRO Seeds of Canada
Sierra				IY	5200	5		PRO Seeds of Canada
OAC Lucknow				GR	6100	7		SeCan Association
Prophet				IY	6200	7		Hyland Seeds
OAC Auburn			2700	BR	5800	7		Advantage Seed Grow&Proc
PS 44				IY	5800	8		Pride Seeds
RR Robust		RR		BR	5500	11		Hyland Seeds
Arctic		RR		Y	6500	6	NA	First Line Seeds Ltd.
PS 50				BR	5600	2		Pride Seeds
DKB07-75				BR	5200	4		DEKALB
B0501	1k			IY	6900	6		Dow AgroSciences Canada L
Delta	1c			IY	5300	4		Prograin
PRO 275				IY	5400	1		PRO Seeds of Canada
90B73		MS RR		BR	5700	8		Pioneer Hi-Bred Ltd.
2702R		RR		BL	6200	8		First Line Seeds Ltd.
9071	1c			Y	6800	8		Pioneer Hi-Bred Ltd.
Castle		MS		Y	5600	3		Hyland Seeds
Fleming				GR	5900	8		First Line Seeds Ltd.
S000009	1k	RR		Y	6600	7		Dow AgroSciences Canada L
Jutra			2750	IY	5300	1	NA	PRO Seeds of Canada
AC Dundas				LBR	6000	7		SeCan Association

Notes:

HP - High Protein
SCN - SCN resistant

MS - Metribuzin Sensitive
RR - Roundup Ready
STS - Sulfonylurea Tolerant

LS - Limited Supply
NA - Not Available

Table 1. Continued

(Revised on Dec. 10, 2002)

Variety	Notes	Herbicide Reaction	Heat Unit Grouping	Hilum Colour	Seeds per Kg	Phytophthora		Seed Supply	Distributor
						Root Rot %	Plant loss		
Turbo			2750	IY	5300	7			Mike Snobelen Farms Ltd
9063				GR	5900	4			Pioneer Hi-Bred Ltd.
Casino				Y	6900	8			Hyland Seeds
S09-Y9	1c	RR		GR	5900	8			Syngenta Seeds Canada Inc
Chester				Y	6700	13			Hyland Seeds
DKB07-51		RR		BL	6500	5			DEKALB
Fiesta				BR	5600	4			PRO Seeds of Canada
Monarch				BR	5300	5			PRO Seeds of Canada
ADV Heartbeat				Y	5400	5		LS	Advantage Seed Grow&Proc
Enterprise				IY	5500	3			Hyland Seeds
PS 56 RR		RR		BR	6400	10			Pride Seeds
OAC Oxford				IY	5200	6			SeCan Association
PS 59				BR	5800	5			Pride Seeds
PRO 270				BR	5900	5			PRO Seeds of Canada
MS0747				BR	5300	7			Renk Seed Co. of Canada
S 08-80	1c		2800	IY	5100	3			Syngenta Seeds Canada Inc
OAC Exeter				Y	5100	2			First Line Seeds Ltd.
AP1394	1c			GR	6000	6			Advantage Seed or Renk Seed
Bounty		MS		Y	5400	8			Hyland Seeds
2802R	1k	RR		BL	6000	3			First Line Seeds Ltd.
PRO 2790R		RR		BR	5500	6			PRO Seeds of Canada
S10-T1	1k	RR		GR	6700	1			Syngenta Seeds Canada Inc
Marathon				Y	5100	4			Hyland Seeds
S12-C2	1c			IY	5200	3			Syngenta Seeds Canada Inc
RCAT Bobcat			2850	IY	5100	4			SeCan Association
PS 76 RR		RR		BR	4800	3			Pride Seeds
PRO 282				BR	5900	10		LS	PRO Seeds of Canada
Belmont				IY	5800	5			Hyland Seeds
PS 73				LBF	5100	3			Pride Seeds
S16-E8	1k	RR		BR	5000	1			Syngenta Seeds Canada Inc
S14-P6	1c			Y	4300	4			Syngenta Seeds Canada Inc
DKB13-51		RR		BL	5600	8			DEKALB
91B12		RR	2900	BL	5700	4			Pioneer Hi-Bred Ltd.
91B33	1k	RR		BR	5800	1			Pioneer Hi-Bred Ltd.
Arva				IY	5600	6			Advantage Seed Grow&Proc
PRO 295				BL	5700	7			PRO Seeds of Canada
Crystal				Y	5700	5			Hyland Seeds
5140RR	1k	RR		BR	5700	1			Dow AgroSciences Canada L
PRO 3000				IY	4700	23			PRO Seeds of Canada
9163	1c		2950	Y	6800	3			Pioneer Hi-Bred Ltd.
PRO 3090R		RR		IBL	6400	6			PRO Seeds of Canada
92B05	1k	RR		BR	6700	1			Pioneer Hi-Bred Ltd.
PRO 30-02				Y	5600	5		LS	PRO Seeds of Canada
AG1901	1k			BL	6600	3			First Line Seeds Ltd.
200				BL	6600	4			Dow AgroSciences Canada L
Crown				Y	6000	3			Hyland Seeds
91B64	1c	RR		BL	6100	3			Pioneer Hi-Bred Ltd.
91B53				BR	5700	2			Pioneer Hi-Bred Ltd.
Moore				BL	5800	1			Hyland Seeds
S 19-90	1c		3000	GR	5600	6			Syngenta Seeds Canada Inc
Westag 97				BF	6000	1			SeCan Association
S20-F8	1c			Y	6000	3			Syngenta Seeds Canada Inc
RS199RR	1k	RR		BL	6600	1			Renk Seed Co. of Canada
Ivory				Y	6100	5			First Line Seeds Ltd.
B2111RR	1k	RR		BL	7000	3			Dow AgroSciences Canada L
S20-Z5		RR		BR	6100	3			Syngenta Seeds Canada Inc

Notes:

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SCN - SCN resistant

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Table 1. Continued

(Revised on Dec. 10, 2002)

Variety	Notes	Herbicide Reaction	Heat Unit Grouping	Hilum Colour	Seeds per Kg	Phytophthora Root Rot % Plant loss	Seed Supply	Distributor
RR Reign		RR	3000	BR	6300	3		Hyland Seeds
PS 78	1c			Y	5300	3		Pride Seeds
91B52	1k	RR		IBL	5800	1		Pioneer Hi-Bred Ltd.
PRO 292				IBL	5800	6		PRO Seeds of Canada
DKB20-10	1k	RR		BL	5800	5		DEKALB
IA1008	SCN		3050	Y	6000	6		Hyland Seeds
RCAT Legacy				Y	5200	5		SeCan Association
PS 86 RR	1k	RR		BL	5800	1		Pride Seeds
RS2297C	SCN 1k			IBL	5800	6		Renk Seed Co. of Canada
DKB20-84	1k			BL	6100	4		DEKALB
S23-Q3	1c	RR		GR	6400	0		Syngenta Seeds Canada Inc
92B12	SCN 1k			BL	6500	5		Pioneer Hi-Bred Ltd.
Sinclair	SCN			BL	5400	1		Hyland Seeds
RR Renown		RR		BL	6500	4		Hyland Seeds
Tornado				IY	5500	4		Hyland Seeds
OAC Kent				Y	4900	3		SeCan Association
CK-01				IY	6200	8		Shanks Seeds Ltd
S25-D3	1c		3100	IY	5200	3		Syngenta Seeds Canada Inc
S24-L2	1c			BR	5900	5		Syngenta Seeds Canada Inc
S25-H5	SCN			BL	6800	3		Syngenta Seeds Canada Inc
J-251				BR	6500	2		Dow AgroSciences Canada L
S 24-12				Y	6000	5		Syngenta Seeds Canada Inc
PRO 315	1k			BL	5300	3		PRO Seeds of Canada
3102R	1k	RR		IBL	6300	5		First Line Seeds Ltd.
92B38		RR		BR	6300	5		Pioneer Hi-Bred Ltd.
92B13	1k	RR		BL	7200	5		Pioneer Hi-Bred Ltd.
Chatham				Y	5900	5		Hyland Seeds
S24-K4		RR		BR	6800	4		Syngenta Seeds Canada Inc
RCAT Dover			3150	BL	7100	3		SeCan Association
Starburst				Y	6500	3		Hyland Seeds
PS 94 SCN	SCN			BR	6900	2		Pride Seeds
RR Renwick		RR		BL	6600	4		Hyland Seeds
RR Revenge	SCN	RR		BR	6800	6		Hyland Seeds
92B84	1k	RR		BL	7400	4		Pioneer Hi-Bred Ltd.
PS 95				BL	6900	8		Pride Seeds
RS2595	1k			BL	6100	4		Renk Seed Co. of Canada
92B37	SCN 1c			IBL	6700	3		Pioneer Hi-Bred Ltd.
DKB23-51		RR		BL	6200	3		DEKALB
92B61	1k			BL	6200	4		Pioneer Hi-Bred Ltd.
A2553	1k		3200	IBL	6400	3		Dow AgroSciences Canada L
Loda	SCN			GR	5700	6		SeCan Association
RCAT Columbus				BL	6400	6		Ferguson Seeds
92B62	SCN	RR		BL	8400	4		Pioneer Hi-Bred Ltd.
RCAT Staples	1c			BR	5600	5		SeCan Association
ISG 2686				IY	6000	4		Inwood Seed & Grain
AV2261				BF	6200	8		Agventure of Ontario
DKB26-52	SCN	RR	3250	IBL	7100	3		DEKALB
3201R		RR		BL	7700	5		First Line Seeds Ltd.
AV 1289				BR	6400	5		Agventure of Ontario
Nemecys 26R	SCN 1k	RR		BL	6600	4		First Line Seeds Ltd.
92B91	SCN			Y	7600	7		Pioneer Hi-Bred Ltd.
9305	1k			Y	5700	3		Pioneer Hi-Bred Ltd.
S29-C9		RR		BR	7000	7		Syngenta Seeds Canada Inc
93B01	1k	RR		BL	7900	2		Pioneer Hi-Bred Ltd.
S30-Y8	SCN 1c		3300	IBL	6600	4		Syngenta Seeds Canada Inc
93B09	1k	RR		BL	6400	7		Pioneer Hi-Bred Ltd.

Notes:

HP - High Protein

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INTERPRETATION OF RESULTS - TABLES 2 TO 6

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.

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 varieties grown in a test area. Small index differences may not be 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. **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.

Agronomic data in Tables 2 to 4 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 5 & 6 have been split on a soil type basis; data from 1-3 years of testing are provided for each location.

TABLE 2. AGRONOMIC DATA 2300-2500 HEAT UNIT AREAS.

Revised on Dec 12, 2002

Variety	Days to Mature	Yield Index (%)						Plant Height (cm)	Lodging 1=Standing 5=Flat
		Dundalk 2yr	New Liskeard 2yr	Renfrew 2yr	3yr	Average 2yr	3yr		
Gentleman	108	97	87	96	88	93	90	64	1.5
DKB005-51	114	82	77	81	--	80	--	63	1.6
90A07	117	101	100	94	--	99	--	65	1.2
Accord	118	87	87	80	85	85	86	76	1.8
AC Orford	118	96	95	101	106	97	99	66	1.2
OAC Walton	118	105	98	95	96	100	99	71	1.7
Primo RR	118	91	88	100	--	92	--	67	1.3
Albinos	119	101	104	92	96	100	99	74	1.8
Emerson	119	104	112	103	102	107	106	67	1.3
PRO 25-53	119	112	109	118	--	112	--	74	1.9
DKB00-65	120	107	113	95	101	106	106	68	1.4
Maple Glen	120	102	95	104	102	100	99	67	1.3
PRO 26-03	120	106	110	103	100	106	104	66	1.1
Quincy	120	112	99	108	--	106	--	65	1.4
AC Glengarry	121	97	107	102	102	102	102	67	1.3
Carlton	121	105	96	103	106	101	102	72	1.5
OAC Morris	121	110	108	110	--	109	--	67	1.3
S 00-66	121	104	102	103	--	103	--	73	1.3
2502R	121	92	101	99	--	97	--	72	1.6
Supra	122	100	104	114	107	105	103	69	1.5
DKB00-99	123	101	102	107	108	103	103	69	1.2
S00-A6	123	99	111	111	--	107	--	70	1.6
90B11	123	89	93	82	--	89	--	70	1.6
Average yield (T/ha)		3.10	3.12	2.07	2.36	2.76	2.80		
(bu/ac)		47.1	47.4	31.5	35.9	42.0	42.6		

Testing areas: Table 2

Dundalk	--	2001	2002
New Liskeard	--	2001	2002
Renfrew	2000	2001	2002

TABLE 3. AGRONOMIC DATA 2500-2800 HEAT UNIT AREAS.

Variety	Days to Mature	Yield Index (%)								Plant Height (cm)	Lodging 1=Standing 5=Flat
		Brussels *2yr	Elora 2yr	Elora 3yr	Ottawa 2yr	Ottawa 3yr	Winchester **2yr	Average 2yr	Average 3yr		
90A07	104	86	75	85	91	85	97	83	88	61	1.0
AC Proteina	105	86	91	93	84	84	82	87	87	64	1.0
Albinos	105	87	92	96	81	76	99	89	89	69	1.1
OAC Atwood	106	91	100	99	97	93	99	95	96	65	1.0
PS 36	106	94	90	96	109	101	100	93	98	71	1.3
DKB00-65	107	83	96	98	99	97	97	93	95	69	1.1
DKB00-99	107	97	93	95	95	88	96	94	94	69	1.1
S00-A6	107	94	108	100	95	88	90	100	93	60	1.0
S 02-G2	107	93	80	86	83	82	90	84	87	59	1.0
AC Rodeo	108	100	94	98	103	104	96	99	100	70	1.2
Adv Accrue	108	97	91	96	105	108	99	96	100	69	1.2
OAC Clinton	108	102	98	104	116	106	112	107	106	69	1.0
90B11	108	94	85	87	72	78	92	84	87	65	1.1
PS 46 RR	110	98	114	109	90	92	104	105	101	64	1.0
S03-W4	110	108	104	103	114	113	107	109	108	70	1.0
2601R	110	97	94	99	99	92	95	95	96	68	1.0
OAC Bayfield	111	107	120	115	107	109	105	110	109	70	1.0
OAC Brussels	111	102	109	105	100	96	90	104	98	62	1.0
OAC Champion	111	108	115	111	114	110	114	114	111	73	1.2
OAC Lucknow	111	102	94	98	94	101	93	91	99	67	1.0
Prophet	111	103	101	108	94	96	98	97	101	65	1.2
Sierra	111	93	88	90	93	94	92	91	92	66	1.2
OAC Auburn	112	101	88	97	97	101	103	94	100	69	1.0
PS 44	112	100	93	94	86	97	106	94	99	74	1.1
RR Robust	112	93	85	86	93	91	83	88	88	73	1.1
Arctic	113	--	109	--	100	--	--	104	--	70	1.1
B0501	113	106	97	101	112	115	107	107	107	69	1.0
DKB07-75	113	111	111	107	116	115	102	111	109	66	1.1
PS 50	113	99	103	101	96	102	103	99	101	72	1.3
AC Dundas	114	106	114	111	104	110	112	110	110	69	1.1
Casino	114	97	97	100	108	109	102	100	102	63	1.0
DKB07-51	114	108	108	104	95	99	94	101	101	68	1.1
PRO 275	114	108	115	106	94	105	99	105	105	62	1.0
S09-Y9	114	--	102	--	89	--	--	100	--	61	1.1
Turbo	114	103	100	98	105	104	106	103	103	65	1.0
2702R	114	109	103	103	97	98	97	100	101	69	1.1
90B73	114	103	106	104	99	99	98	104	101	69	1.3
9063	114	105	113	109	103	100	102	107	104	65	1.0
9071	114	100	95	101	115	110	110	106	106	66	1.1
ADV Heartbeat	115	--	103	--	115	--	--	110	--	70	1.1
Castle	115	94	93	96	103	109	103	96	101	69	1.0
Enterprise	115	104	102	100	107	104	106	104	103	68	1.0
Fiesta	115	107	100	99	94	101	104	100	102	61	1.0
Fleming	115	110	102	102	97	103	103	104	104	62	1.0
Monarch	115	107	110	109	115	108	105	110	107	74	1.0
PS 56 RR	115	--	114	--	95	--	--	107	--	73	1.0
MS0747	116	103	101	104	109	108	103	106	105	74	1.0
PRO 270	116	101	111	107	116	112	106	110	107	67	1.1
PRO 2790R	116	97	99	96	105	100	101	103	98	69	1.0
S000009	116	104	93	94	103	102	98	99	99	69	1.0

Average yield (T/ha) 2.64 2.36 **2.66** 1.91 **2.55** **3.19** 2.33 **2.73**
 (bu/ac) 40.1 35.9 **40.5** 29.0 **38.8** **48.5** 35.4 **41.5**

* Brussels 2yr includes data from 2000 and 2001

** Winchester 2yr includes data from 2000 and 2002.

Testing areas: Table 3

Brussels	2000	2001	--
Elora	2000	2001	2002
Ottawa	2000	2001	2002
Winchester	2000	--	2002

TABLE 4. AGRONOMIC DATA 2700-2900 HEAT UNIT AREAS.

Variety	Days to Mature	Yield Index (%)						Average		Plant Height (cm)	Lodging 1=Standing 5=flat
		Exeter 2yr	Exeter 3yr	St. Pauls *2yr	Winchester **2yr	Woodstock 2yr	Woodstock 3yr	2yr	3yr		
OAC Bayfield	111	101	100	91	99	95	95	97	97	69	1.3
Fiesta	113	106	107	93	97	96	97	101	99	65	1.0
ADV Heartbeat	114	101	--	--	--	96	--	99	--	70	1.0
Chester	114	93	95	101	93	96	98	95	97	73	1.2
Delta	114	103	103	96	113	95	94	103	101	69	1.0
OAC Exeter	114	94	97	95	97	98	98	96	97	69	1.0
S 08-80	114	92	96	108	104	94	96	95	100	70	1.0
90B73	114	97	95	88	84	89	90	90	90	69	1.1
AP1394	115	98	100	100	104	100	99	99	100	76	1.0
Bounty	115	96	98	96	99	93	92	95	96	65	1.0
Monarch	116	103	101	104	105	99	97	102	101	72	1.0
OAC Oxford	116	99	99	106	108	99	99	99	102	78	1.0
PS 59	116	109	108	101	108	108	104	107	105	69	1.0
S10-T1	116	96	96	91	87	91	92	92	92	65	1.0
2802R	116	98	98	90	104	99	97	98	98	72	1.0
Marathon	117	98	98	87	105	98	98	99	97	77	1.3
RCAT Bobcat	117	104	102	99	104	107	103	106	102	75	1.0
S12-C2	117	102	106	103	102	98	99	99	102	66	1.0
PS 76 RR	118	94	--	--	--	96	--	91	--	74	1.0
91B12	118	88	91	96	90	86	92	86	92	63	1.1
91B33	118	106	102	101	102	100	99	104	101	65	1.0
Arva	119	93	97	101	81	90	94	86	93	67	1.0
Belmont	119	101	105	117	106	107	108	104	108	77	1.0
PRO 282	119	99	96	107	113	109	105	107	104	73	1.0
PS 73	119	108	108	113	116	104	106	109	110	76	1.1
Crown	120	105	101	101	99	111	108	107	103	75	1.0
Crystal	120	104	102	101	99	108	104	103	102	71	1.0
PRO 295	120	100	99	107	91	106	105	105	101	79	1.1
S14-P6	120	106	--	--	--	100	--	101	--	66	1.0
S16-E8	120	101	--	--	--	101	--	99	--	66	1.0
5140RR	120	98	98	110	102	104	104	105	103	70	1.0
DKB13-51	121	98	100	99	97	97	98	99	98	71	1.0
PRO 3000	121	94	93	95	96	96	97	97	95	74	1.2
91B64	122	102	101	98	97	99	97	100	98	74	1.0
Moore	123	99	101	107	101	106	108	102	104	71	1.0
PS 78	123	99	98	103	98	102	103	101	101	88	1.1
RR Reign	123	100	97	103	79	100	97	101	94	74	1.0
91B53	123	104	103	110	114	113	113	112	110	71	1.1
91B52	124	105	102	88	95	98	99	99	97	68	1.0
PRO 292	125	104	106	92	113	118	114	111	107	80	1.1
Average yield (T/ha)		2.96	3.22	2.77	3.22	3.09	3.26	2.89	3.14		
(bu/ac)		45	49	42.1	49	47	49.6	43.9	47.7		

* St. Pauls 2yr includes data from 2000 and 2001

** Winchester 2yr includes data from 2000 and 2002.

Testing areas: Table 4

Exeter	2000	2001	2002
St. Pauls	2000	2001	--
Winchester	2000	--	2002
Woodstock	2000	2001	2002

TABLE 5. AGRONOMIC DATA 2900-3300 HEAT UNIT AREAS.

Revised on Dec 12, 2002

Variety	Days to Mature	Yield Index (%)								Plant Height (cm)	Lodging 1=Standing 5=flat
		Clay			Loam						
		Inwood 2yr	3yr	*Clay Average	Ridgetown 2yr	3yr	Talbotville 2yr	3yr	Loam Average		
Crown	109	96	98	101	98	97	106	103	99	67	1.0
9163	109	106	99	101	99	103	99	98	101	66	1.2
PRO 3090R	110	101	101	98	91	92	94	97	94	67	1.1
S 19-90	110	95	94	95	101	103	104	106	104	63	1.1
PRO 30-02	111	93	100	98	95	96	96	102	99	65	1.0
92B05	111	103	96	98	95	94	102	97	95	65	1.0
AG1901	112	101	97	96	96	97	101	102	99	73	1.3
IA1008	112	100	--	--	98	--	105	--	--	71	1.0
PRO 292	112	95	94	95	105	103	100	103	103	68	1.1
S20-F8	112	102	101	102	101	103	108	108	105	66	1.0
Westag 97	112	105	105	106	106	101	110	107	104	65	1.1
Ivory	113	101	99	97	103	103	107	105	104	59	1.0
PS 86 RR	113	100	97	98	95	96	102	101	98	71	1.1
RCAT Legacy	113	108	109	108	102	98	100	95	97	59	1.0
RS199RR	113	103	98	99	96	94	90	90	92	63	1.1
RS2297C	113	104	103	104	104	100	105	97	99	64	1.0
B2111RR	114	94	93	93	94	98	90	93	96	80	1.2
DKB20-10	114	98	103	103	93	93	97	97	95	67	1.0
DKB20-84	114	99	98	98	107	107	97	103	105	62	1.1
S20-Z5	114	97	97	99	97	97	96	94	96	64	1.0
S23-Q3	114	98	93	93	100	96	91	96	96	67	1.0
200	114	106	102	102	104	104	117	109	106	66	1.1
92B12	114	100	104	104	102	104	99	97	101	59	1.1
RR Renown	115	93	94	96	97	96	97	96	96	68	1.0
Sinclair	115	103	105	102	96	101	96	101	101	70	1.1
S 24-12	115	107	105	106	97	103	108	106	104	65	1.1
Tornado	115	98	96	95	105	102	100	100	101	66	1.0
OAC Kent	116	104	102	103	107	107	101	104	106	73	1.1
PRO 315	116	106	106	102	99	100	94	97	99	66	1.0
RS2595	116	100	104	103	110	112	92	97	106	67	1.0
3102R	116	96	100	100	97	97	94	97	97	64	1.1
Chatham	117	95	--	--	106	--	105	--	--	63	1.0
** CK-01	117	96	--	--	97	--	103	--	--	71	1.1
S24-K4	117	97	--	--	103	--	103	--	--	72	1.1
92B13	117	95	--	--	98	--	89	--	--	64	1.1
92B38	117	99	101	101	102	103	90	92	98	72	1.0
92B37	118	104	102	103	104	106	115	107	106	82	1.3
DKB23-51	119	100	103	101	104	98	100	100	99	64	1.1
92B61	120	100	103	100	94	99	100	103	101	70	1.5
Average yield (T/ha)		2.27	2.50	2.35	4.29	4.22	2.49	2.98	3.60		
(bu/ac)		34.5	38.0	35.7	65.2	64.2	37.9	45.3	54.7		

* Clay average includes data from Dutton 2002 and Inwood 2000-2001-2002.

** CK-01 data from 2000 and 2002 only. Yield Index based on location averages of:

Inwood: 2.52 T/ha (37.4 bu/ac), Ridgetown: 4.34 T/ha (64.4 bu/ac) and Talbotville 3.40 T/ha (50.4 bu/ac)

Testing areas: Table 5

Dutton	--	--	2002
Inwood	2000	2001	2002
Ridgetown	2000	2001	2002
Talbotville	2000	2001	2002

TABLE 6. 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	Tilbury 3yr	Woodslee 2yr	Woodslee 3yr	Clay Average	Chatham 2yr	Chatham 3yr	Malden 2yr	Malden 3yr	Loam Average		
S 19-90	103	96	96	82	87	91	89	95	95	97	96	60	1.0
IA1008	106	99	100	96	90	95	97	99	100	103	101	68	1.0
RCAT Legacy	106	97	100	103	102	101	97	92	101	100	97	53	1.0
S 24-12	107	101	99	97	97	98	95	96	102	100	98	63	1.0
S25-D3	108	103	104	92	96	100	93	90	103	103	97	69	1.0
S24-L2	109	107	102	107	105	104	109	107	101	100	103	64	1.0
S25-H5	109	100	100	92	95	97	100	101	98	98	99	64	1.0
Chatham	110	101	99	102	99	99	89	91	99	98	94	60	1.0
OAC Kent	110	96	101	104	103	102	100	99	105	106	103	73	1.0
92B13	110	97	--	96	--	--	98	--	91	--	--	62	1.0
J-251	111	95	99	96	101	100	102	105	98	100	102	63	1.0
RCAT Dover	111	101	103	110	110	107	103	108	105	106	107	69	1.0
S24-K4	111	96	95	99	96	96	108	106	102	101	103	71	1.0
92B38	111	99	101	99	99	100	106	106	100	101	103	71	1.1
A2553	112	100	103	108	110	107	105	107	101	105	106	64	1.1
PS 94 SCN	112	101	98	105	100	99	92	94	95	100	97	76	1.2
Starburst	112	98	98	105	102	100	98	96	98	98	97	64	1.0
Loda	113	109	100	103	94	97	99	100	108	105	102	67	1.0
RR Renwick	113	101	97	105	102	100	100	97	101	101	99	69	1.0
RR Revenge	113	81	--	95	--	--	98	--	91	--	--	59	1.0
92B61	113	110	106	96	100	102	104	100	108	102	101	72	1.1
DKB26-52	114	88	90	103	99	95	99	100	100	98	99	76	1.2
PS 95	114	105	104	106	106	105	112	107	104	102	104	67	1.0
RCAT Columbus	114	106	104	106	104	104	103	101	102	99	100	76	1.0
RCAT Staples	114	107	103	104	102	102	106	101	106	104	103	75	1.0
92B62	114	93	94	92	92	93	96	97	89	91	94	66	1.1
92B84	114	95	92	95	97	95	95	95	93	91	93	68	1.0
AV 1289	115	107	109	104	105	107	100	106	98	101	103	64	1.1
ISG 2686	115	97	105	103	102	103	99	104	100	101	102	62	1.0
Nemecys 26R	115	100	97	96	94	96	102	97	98	95	96	66	1.0
AV2261	116	114	108	106	103	105	103	106	104	102	104	69	1.1
S29-C9	117	106	102	103	103	102	104	105	102	100	102	79	1.0
3201R	117	93	95	90	95	95	97	101	93	94	97	77	1.1
92B91	117	98	101	99	99	100	89	96	97	101	99	75	1.1
93B01	117	101	98	96	97	97	102	99	97	95	97	63	1.0
9305	117	101	97	101	101	99	93	91	104	99	95	69	1.0
S30-Y8	119	104	101	113	111	106	114	106	111	105	106	69	1.1
93B09	119	95	--	93	--	--	108	--	101	--	--	66	1.0
Average yield (T/ha)		2.28	2.77	2.78	3.32	3.04	3.19	3.58	3.71	4.13	3.86		
(bu/ac)		34.7	42.1	42.3	50.5	46.2	48.5	54.4	56.4	62.8	58.7		

Testing areas: Table 6

Tilbury	2000	2001	2002
Woodslee	2000	2001	2002
Chatham	2000	2001	2002
Malden	2000	2001	2002

**TABLE 7. RESISTANT VARIETY
PERFORMANCE IN SCN INFESTED FIELDS**

<i>Variety</i>	Avg. of 7 tests (2000-2002)		Avg. of 4 tests (2001-2002)	
	<i>Days to Maturity</i>	<i>Yield Index (%)</i>	<i>Days to Maturity</i>	<i>Yield Index (%)</i>
RS2297C	110	102	108	123
IA 1008	111	124	108	140
Sinclair	113	128	111	137
92B12	--	--	112	139
92B37	--	--	112	135
92B62	--	--	112	138
RR Revenge	--	--	113	103
DKB26-52	116	122	114	137
PS 94 SCN	--	--	115	128
Nemecys 26R	117	125	115	137
Loda	117	115	116	131
92B91	--	--	118	146

*Susceptible Yield Index is

100%

100%

Susceptible Yield: 2.45 T/ha or 36.3 bu/ac

2.14 T/ha or 31.8 bu/ac

* Susceptible Yield Index is based on 3 high yielding susceptible varieties.

Test locations had moderate to high (1,500 to >5,000 eggs/100g of soil) SCN infestations.

Resistance source is PI88788 for all varieties.

Test Locations & Soil Types - 2002 Trials

Location	Table	Heat Unit Rating	Soil Type	Row Width (cm)	Seeding Rate (plant/ac)
Dundalk	2	2400	clay	35	200,000
New Liskeard	2	2400	clay	18	200,000
Renfrew	2	2500	clay	20	200,000
Ottawa	3	2650	clay loam	40	200,000
Brussels	3	2600	clay loam	35	200,000
Elora	3	2550	silt loam	35	200,000
Winchester	3 & 4	2825	clay loam	35	200,000
St. Paul's	4	2750	clay loam	35	200,000
Woodstock	4	2700	clay loam	35	200,000
Exeter	4	2800	clay loam	35	200,000
Talbotville	5	2900	clay loam	35	200,000
Ridgetown	5	3250	clay loam	43	160,000
Inwood	5	3050	clay	43	200,000
Dutton	5	3100	clay	43	200,000
Tilbury	6	3350	clay	60	240,000
Woodslee	6	3400	clay	60	240,000
Chatham	6	3300	clay loam	60	160,000
Malden	6	3400	clay loam	60	240,000

SOYBEAN VARIETY DISTRIBUTORS

(Revised December 12, 2002)

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.

323 Havelock St., Box 29, Lucknow, ON N0G 2H0
Tel: 1-800-651-7333 Fax: 519-528-3518
Email: wanda@advantageseeds.com

Agrocentre Belcan Inc.

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

Agventure of Ontario

1245 County Rd. 46, Woodslee, Ontario, N0R 1V0
Tel: 519-723-4476 Fax: 519-723-2146

DEKALB

Monsanto Canada Inc.
Research Park Centre
307-150 Research Lane
Guelph, ON N1G 4T2
Tel: 1-800-667-4944, Fax: 519-823-9733

Dow AgroSciences Canada Inc.

Mycogen Brand Seeds
305 Consortium Court, London ON, N6E 2S8
Tel: 1-800-265-5289

Ferguson Seeds

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

First Line Seeds Ltd.

150 Research Lane, Suite 307
Guelph, ON N1G 4T2
Tel: 1-800-361-2326 Fax: 519-821-9755
Email: firstline@soybeans.com

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
Website: www.hylandseeds.com

Pioneer Hi-Bred Ltd.

Box 730, Chatham ON, N7M 5L1
Tel: 1-800-265-9435, Fax: 519-436-6753
Website: www.Pioneer.com/Canada

Pride Seeds

P.O. Box 1088, Chatham ON, N7M 5L6
Tel: 519-354-3210 Fax: 519-354-8155
Website: www.prideseed.com

Prograin

145 Bas Rivière Nord, St-Césaire, Québec, J0L 1T0
Tel: 1-800-817-3732 Fax: 450-469-4547

PRO Seeds of Canada

RR#6, Woodstock ON, N4S 7W1
Tel: 1-888-537-5157 Fax: 519-533-0773

Renk Seed Company of Canada

P.O. Box 1226, Chatham, ON N7M 5L8
Tel: 1-519-351-5101; Fax 1-519-354-8603

SeCan Association

RR#5, Ingersoll, ON, N5C 3J8
Tel: 1-866-797-7874, Fax: 1-519-423-6933

Semican Inc.

366 rang 10, Plessisville QC, G6L 2Y2
Tel: 819-362-8823 Fax: 819-362-3385
Email: semican@ivic.qc.ca

Shanks Seeds Ltd.

R.R. # 1, Wheatley, ON, N0P 2P0
Tel: 519-825-4432
Email: shanks@wincom.net

Mike Snobelen Farms Ltd.

Box 29 / 323 Havelock St., Lucknow, ON, N0G 2H0
Tel: 519-528-2092 / 1-800-582-5669, Fax: 519-528-3542
Email: john@snobelengroup.com

Syngenta Seeds Canada, Inc.

15910 Medway Road, RR #1, Arva, Ontario, N0M 1C0
Tel: 800-756-7333 Fax: 888-717-7122

Go to www.soybean.on.ca for:

- ? 2003 Yield and Maturity Graphs from OSV report.
- ? Oil and Protein information.
- ? Food Grade Variety Performance Information.
- ? 2003 Ontario Soybean Variety Report