

# 2002 REPORT

## Ontario Soybean Variety Trials

Conducted in 1999-2001

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 and the Oilseed Crushers. Tests are conducted each year by the following co-operating agencies: Research Centre, Harrow; Ridgetown College; Huron Research Station; University of Guelph; Kemptville College; Research Centre, Ottawa.

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



**Web Site:**

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



# Table 1. Soybean Variety Performance List and Descriptions

| Variety        | Notes | Herbicide Reaction | Heat Unit Grouping | Hilum Colour | Seeds per Kg | Phytophthora Root Rot % Plant loss | Seed Supply | Distributor                 |
|----------------|-------|--------------------|--------------------|--------------|--------------|------------------------------------|-------------|-----------------------------|
| Alta Gentleman |       |                    | 2400               | IY           | 4800         | 7                                  |             | First Line Seeds Ltd.       |
| Aquilon 90A07  |       |                    | 2450               | BL           | 5200         | 3                                  |             | Advantage Seed Grow&Proc    |
| HS 2578        |       |                    |                    | Y            | 5800         | 7                                  |             | Pioneer Hi-Bred Ltd.        |
| Accord         |       |                    |                    | IY           | 5400         | 4                                  |             | GROWMARK Inc.               |
| PS 36          |       |                    | 2500               | LBR          | 6000         | 3                                  |             | Advantage Seed Grow&Proc    |
| S 00-66        |       |                    |                    | Y            | 5200         | 4                                  |             | Pride Seeds                 |
| OAC Wingham    |       |                    |                    | BR           | 5500         | 3                                  |             | Syngenta Seeds Canada Inc   |
| AC Proteina    | HP    |                    |                    | BR           | 6400         | 5                                  |             | SeCan Association           |
| Albinos        |       |                    |                    | BR           | 6400         | 5                                  |             | Semican Inc.                |
| Medallion 5007 |       |                    |                    | IY           | 5400         | 7                                  |             | Semican Inc.                |
| PS 39 RR       |       |                    | 2550               | BR           | 5400         | 5                                  |             | Semican Inc.                |
| DB1979         |       |                    |                    | BL           | 6300         | 4                                  |             | Dow AgroSciences Canada Inc |
| OAC Atwood     |       | RR                 |                    | BR           | 6400         | 7                                  |             | Pride Seeds                 |
| Supra          | 1c    |                    |                    | BR           | 5100         | 4                                  |             | Advantage Seed Grow&Proc    |
| AC Rodeo       |       |                    |                    | IY           | 5900         | 4                                  |             | Advantage Seed Grow&Proc    |
| OAC Clinton    |       |                    |                    | IY           | 5800         | 3                                  | NA          | First Line Seeds Ltd.       |
| OAC Elora      |       |                    |                    | IY           | 6400         | 5                                  |             | Semican Inc.                |
| DKB00-99       |       | RR                 |                    | IY           | 5800         | 1                                  |             | PRO Seeds of Canada         |
| Altesse        |       |                    |                    | BL           | 6600         | 5                                  |             | Semican Inc.                |
| OAC Walton     |       |                    |                    | BR           | 6100         | 4                                  |             | DEKALB                      |
| OAC Salem      |       |                    |                    | BR           | 5700         | 2                                  |             | SeCan Association           |
| AC Orford      |       |                    |                    | DBR          | 5000         | 12                                 |             | PRO Seeds of Canada         |
| S 02-G2        | 1c    | RR                 | 2600               | IY           | 5400         | 4                                  |             | Agrocentre Belcan           |
| OAC Millennium |       |                    |                    | IY           | 4700         | 3                                  |             | Semican Inc.                |
| S00-A6         |       |                    |                    | BR           | 6300         | 1                                  |             | Syngenta Seeds Canada Inc   |
| KG 41          |       |                    |                    | BR           | 6400         | 3                                  |             | PRO Seeds of Canada         |
| ADV 0290F      |       |                    |                    | Y            | 5700         | 4                                  |             | Syngenta Seeds Canada Inc   |
| 90B11          |       | RR                 |                    | Y            | 5600         | 3                                  |             | Pride Seeds                 |
| 2601R          | 1c    | RR                 |                    | BR           | 5600         | 4                                  |             | Advantage Seed Grow&Proc    |
| PS 46 RR       |       | RR                 |                    | BR           | 6600         | 12                                 |             | Pioneer Hi-Bred Ltd.        |
| PRO 255        |       |                    |                    | BR           | 5600         | 3                                  |             | First Line Seeds Ltd.       |
| Korada         | 1c    |                    |                    | BL           | 5300         | 2                                  |             | Pride Seeds                 |
| Maple Glen     |       |                    |                    | IY           | 4900         | 6                                  |             | PRO Seeds of Canada         |
| OAC Erin       |       |                    |                    | IY           | 4800         | 5                                  | LS          | Prograin                    |
| AC Glengarry   |       |                    |                    | IY           | 5100         | 4                                  |             | SeCan Association           |
| OAC Lucknow    |       |                    | 2650               | Y            | 6600         | 8                                  |             | PRO Seeds of Canada         |
| OAC Bayfield   |       |                    |                    | IY           | 5200         | 3                                  |             | SeCan Association           |
| OAC Brussels   |       |                    |                    | GR           | 5500         | 5                                  |             | SeCan Association           |
| S03-W4         | 1c    |                    |                    | BR           | 5300         | 3                                  |             | SeCan Association           |
| Prophet        |       |                    |                    | IY           | 5300         | 1                                  |             | SeCan Association           |
| PS 43          |       |                    |                    | IY           | 5300         | 5                                  |             | Syngenta Seeds Canada Inc   |
| Sierra         |       |                    |                    | IY           | 5600         | 5                                  |             | Hyland Seeds                |
| Delta          | 1c    |                    | 2700               | Y            | 5800         | 6                                  |             | Pride Seeds                 |
| OAC Auburn     |       |                    |                    | IY           | 4800         | 3                                  |             | PRO Seeds of Canada         |
| PS 44          |       |                    |                    | IY           | 4800         | 3                                  |             | PRO Seeds of Canada         |
| 90B73          |       | MS RR              |                    | BR           | 5500         | 5                                  |             | Pride Seeds                 |
| Fleming        |       |                    |                    | BR           | 5500         | 4                                  |             | Pioneer Hi-Bred Ltd.        |
| PS 50          |       |                    |                    | GR           | 5800         | 4                                  |             | First Line Seeds Ltd.       |
| RR Robust      |       | RR                 |                    | BR           | 5200         | 2                                  |             | Pride Seeds                 |
| B0501          | 1k    |                    |                    | BR           | 5200         | 12                                 |             | Hyland Seeds                |
| PS 55          |       |                    |                    | IY           | 6400         | 7                                  |             | Dow AgroSciences Canada Inc |
| HS 2725        |       |                    |                    | BR           | 5900         | 9                                  |             | Pride Seeds                 |
| PRO 275        |       |                    |                    | BR           | 5500         | 4                                  |             | GROWMARK Inc.               |
|                |       |                    |                    | IY           | 5400         | 1                                  |             | PRO Seeds of Canada         |

**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

| Variety     | Notes | Herbicide Reaction | Heat Unit Grouping | Hilum Colour | Seeds per Kg | Phytophthora Root Rot % Plant loss | Seed Supply Distributor      |
|-------------|-------|--------------------|--------------------|--------------|--------------|------------------------------------|------------------------------|
| DKB07-75    |       |                    |                    | BR           | 5000         | 4                                  | DEKALB                       |
| 2702R       |       | RR                 |                    | BL           | 5900         | 8                                  | First Line Seeds Ltd.        |
| OAC Oxford  |       |                    | 2750               | IY           | 5300         | 5                                  | SeCan Association            |
| PS 59       |       |                    |                    | BR           | 5900         | 5                                  | Pride Seeds                  |
| 9071        | 1c    |                    |                    | Y            | 6300         | 5                                  | Pioneer Hi-Bred Ltd.         |
| DKB07-51    |       | RR                 |                    | BL           | 6200         | 6                                  | DEKALB                       |
| Enterprise  |       |                    |                    | IY           | 5400         | 2                                  | Hyland Seeds                 |
| Fiesta      |       |                    |                    | BR           | 5400         | 3                                  | PRO Seeds of Canada          |
| Turbo       |       |                    |                    | IY           | 5100         | 5                                  | Mike Snobelen Farms Ltd      |
| AC Dundas   |       |                    |                    | LBR          | 6000         | 3                                  | NA SeCan Association         |
| Monarch     |       |                    |                    | BR           | 5100         | 3                                  | NA PRO Seeds of Canada       |
| PRO 270     |       |                    |                    | BR           | 5600         | 2                                  | PRO Seeds of Canada          |
| MS0747      |       |                    |                    | BR           | 5400         | 4                                  | Renk Seeds Company of Canada |
| AC 2001     |       |                    |                    | BR           | 5600         | 1                                  | SeCan Association            |
| 9063        |       |                    |                    | GR           | 5500         | 4                                  | Pioneer Hi-Bred Ltd.         |
| OAC Exeter  |       |                    | 2800               | Y            | 5000         | 2                                  | First Line Seeds Ltd.        |
| AP1394      | 1c    |                    |                    | GR           | 5700         | 5                                  | Renk Seeds or Advantage Seed |
| S 08-80     | 1c    |                    |                    | IY           | 4900         | 4                                  | Syngenta Seeds Canada Inc    |
| 2802R       | 1k    | RR                 |                    | BL           | 5900         | 2                                  | First Line Seeds Ltd.        |
| PRO 286     |       |                    |                    | GR           | 5600         | 2                                  | PRO Seeds of Canada          |
| Bounty      |       | MS                 |                    | Y            | 5300         | 10                                 | Hyland Seeds                 |
| Marathon    |       |                    |                    | Y            | 5000         | 6                                  | Hyland Seeds                 |
| PRO 2790R   |       | RR                 |                    | BR           | 5800         | 6                                  | LS PRO Seeds of Canada       |
| S10-T1      | 1k    | RR                 | 2850               | GR           | 6200         | 2                                  | Syngenta Seeds Canada Inc    |
| RCAT Bobcat |       |                    |                    | IY           | 5100         | 4                                  | SeCan Association            |
| A0868       | 1k    |                    |                    | Y            | 5600         | 6                                  | Dow AgroSciences Canada Inc  |
| PS 73       |       |                    |                    | LBF          | 5200         | 4                                  | Pride Seeds                  |
| PS 66 RR    |       | RR                 |                    | BR           | 5200         | 9                                  | Pride Seeds                  |
| DKB13-51    |       | RR                 |                    | BL           | 5600         | 7                                  | DEKALB                       |
| 9163        | 1c    |                    | 2900               | Y            | 6200         | 4                                  | Pioneer Hi-Bred Ltd.         |
| PRO 3000    |       |                    |                    | IY           | 4800         | 23                                 | LS PRO Seeds of Canada       |
| Arva        |       |                    |                    | IY           | 5300         | 5                                  | Advantage Seed Grow&Proc     |
| 91B33       | 1k    | RR                 |                    | BR           | 5400         | 1                                  | Pioneer Hi-Bred Ltd.         |
| 91B12       |       | RR                 |                    | BL           | 5300         | 4                                  | Pioneer Hi-Bred Ltd.         |
| S 14-M7     | 1c    | RR                 |                    | GR           | 5200         | 3                                  | Syngenta Seeds Canada Inc    |
| PRO 288     |       |                    |                    | DBR          | 4900         | 2                                  | PRO Seeds of Canada          |
| PRO 285     |       |                    |                    | BF           | 5000         | 7                                  | PRO Seeds of Canada          |
| Crystal     |       |                    |                    | Y            | 5500         | 5                                  | Hyland Seeds                 |
| PRO 295     |       |                    |                    | BL           | 5500         | 6                                  | PRO Seeds of Canada          |
| 92B05       | 1k    | RR                 | 2950               | BR           | 6200         | 1                                  | Pioneer Hi-Bred Ltd.         |
| PRO 3090R   |       |                    |                    | IBL          | 6500         | 6                                  | LS PRO Seeds of Canada       |
| AG1901      | 1k    | RR                 |                    | BL           | 6200         | 4                                  | First Line Seeds Ltd.        |
| Moore       |       |                    |                    | BL           | 5600         | 1                                  | Hyland Seeds                 |
| Crown       |       |                    |                    | Y            | 5300         | 4                                  | Hyland Seeds                 |
| 91B64       | 1c    | RR                 |                    | BL           | 5900         | 3                                  | Pioneer Hi-Bred Ltd.         |
| 91B53       |       |                    |                    | BR           | 5800         | 2                                  | Pioneer Hi-Bred Ltd.         |
| S 19-90     | 1c    |                    | 3000               | GR           | 5000         | 5                                  | Syngenta Seeds Canada Inc    |
| S19-T9      | 1c    |                    |                    | GR           | 5000         | 3                                  | Syngenta Seeds Canada Inc    |
| Westag 97   |       |                    |                    | BF           | 5300         | 1                                  | SeCan Association            |
| S20-F8      | 1c    |                    |                    | Y            | 5200         | 5                                  | Syngenta Seeds Canada Inc    |
| Ivory       |       |                    |                    | Y            | 5400         | 4                                  | First Line Seeds Ltd.        |
| S20-Z5      |       | RR                 |                    | BR           | 5600         | 4                                  | Syngenta Seeds Canada Inc    |
| AG2101      | 1k    | RR                 |                    | BL           | 6200         | 1                                  | First Line Seeds Ltd.        |
| 200         |       |                    |                    | BL           | 6100         | 3                                  | Dow AgroSciences Canada Inc  |
| PRO 292     |       |                    |                    | IBL          | 5400         | 8                                  | PRO Seeds of Canada          |
| RR Reign    |       | RR                 |                    | BR           | 6500         | 5                                  | Hyland Seeds                 |

**Notes:**

HP - High Protein  
SCN - SCN resistant

MS - Metribuzin Sensitive  
RR - Roundup Ready  
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LS - Limited Supply  
NA - Not Available

## Table 1. Continued

| Variety       | Notes  | Herbicide Reaction | Heat Unit Grouping | Hilum Colour | Seeds per Kg | Phytophthora Root Rot % Plant loss | Seed Supply Distributor     |
|---------------|--------|--------------------|--------------------|--------------|--------------|------------------------------------|-----------------------------|
| 5155          |        |                    |                    | BR           | 5000         | 7                                  | Dow AgroSciences Canada Inc |
| PS 78         | 1c     |                    |                    | Y            | 5300         | 4                                  | Pride Seeds                 |
| IA1008        | SCN    |                    | 3050               | Y            | 5400         | 4                                  | Hyland Seeds                |
| RCAT Legacy   |        |                    |                    | Y            | 4800         | 6                                  | SeCan Association           |
| OAC Kent      |        |                    |                    | Y            | 4500         | 2                                  | SeCan Association           |
| PS 83         |        |                    |                    | Y            | 5700         | 18                                 | Pride Seeds                 |
| DKB20-10      | 1k     | RR                 |                    | BL           | 5400         | 4                                  | DEKALB                      |
| Tornado       |        |                    |                    | IY           | 5100         | 4                                  | Hyland Seeds                |
| S23-Q3        | 1c     | RR                 |                    | GR           | 5800         | 2                                  | Syngenta Seeds Canada Inc   |
| PS 86 RR      | 1k     | RR                 |                    | BL           | 5700         | 1                                  | Pride Seeds                 |
| B2111RR       | 1k     | RR                 |                    | BL           | 6200         | 3                                  | Dow AgroSciences Canada Inc |
| DKB20-84      | 1k     |                    |                    | BL           | 5600         | 4                                  | DEKALB                      |
| RS2297C       | SCN 1k |                    |                    | IBL          | 5300         | 5                                  | Renk Seed Co. of Canada     |
| RR Renown     |        | RR                 |                    | BL           | 5800         | 3                                  | Hyland Seeds                |
| 91B52         | 1k     | RR                 |                    | IBL          | 5700         | 2                                  | Pioneer Hi-Bred Ltd.        |
| S24-L2        | 1c     |                    | 3100               | BR           | 5200         | 6                                  | Syngenta Seeds Canada Inc   |
| S25-H5        | SCN    |                    |                    | BL           | 6700         | 2                                  | Syngenta Seeds Canada Inc   |
| J-251         |        |                    |                    | BR           | 5800         | 1                                  | Dow AgroSciences Canada Inc |
| S24-K4        |        | RR                 |                    | BR           | 6200         | 3                                  | Syngenta Seeds Canada Inc   |
| S 24-12       |        |                    |                    | Y            | 5300         | 2                                  | Syngenta Seeds Canada Inc   |
| 92B38         |        | RR                 |                    | BR           | 6000         | 5                                  | Pioneer Hi-Bred Ltd.        |
| CX235c        | SCN    |                    |                    | BL           | 5800         | 2                                  | DEKALB                      |
| Kenwood 94    | 1k     |                    |                    | BL           | 6100         | 5                                  | SeCan Association           |
| 92B61         | 1k     |                    |                    | BL           | 5800         | 3                                  | Pioneer Hi-Bred Ltd.        |
| PRO 315       | 1k     |                    |                    | BL           | 4800         | 3                                  | PRO Seeds of Canada         |
| 3102R         | 1k     | RR                 |                    | IBL          | 5800         | 4                                  | First Line Seeds Ltd.       |
| PS 94 SCN     | SCN    |                    | 3150               | BR           | 6400         | 2                                  | Pride Seeds                 |
| RCAT Dover    |        |                    |                    | BL           | 6400         | 2                                  | SeCan Association           |
| PS 95         |        |                    |                    | BL           | 6500         | 5                                  | Pride Seeds                 |
| RR Renwick    |        | RR                 |                    | BL           | 6000         | 2                                  | Hyland Seeds                |
| Starburst     |        |                    |                    | Y            | 6100         | 1                                  | Hyland Seeds                |
| 92B37         | SCN 1c |                    |                    | IBL          | 6300         | 3                                  | Pioneer Hi-Bred Ltd.        |
| RS2595        | 1k     |                    |                    | BL           | 5500         | 4                                  | Renk Seed Co. of Canada     |
| DKB23-51      |        | RR                 |                    | BL           | 5900         | 2                                  | DEKALB                      |
| A2553         | 1k     |                    | 3200               | IBL          | 5900         | 4                                  | Dow AgroSciences Canada Inc |
| 92B75         | 1k     | RR                 |                    | BL           | 6500         | 1                                  | Pioneer Hi-Bred Ltd.        |
| RCAT Staples  | 1c     |                    |                    | BR           | 5200         | 4                                  | SeCan Association           |
| 92B62         | SCN    | RR                 |                    | BL           | 8100         | 6                                  | Pioneer Hi-Bred Ltd.        |
| RCAT Columbus |        |                    |                    | BL           | 5700         | 4                                  | Ferguson Seeds              |
| DKB26-51      | 1k     | RR                 |                    | BL           | 6400         | 6                                  | DEKALB                      |
| Loda          | SC     |                    |                    | GR           | 5500         | 5                                  | SeCan Association           |
| Stine 2686    |        |                    |                    | IY           | 5700         | 3                                  | Inwood Seed & Grain         |
| 2000          |        | STS                |                    | BR           | 5600         | 5                                  | Inwood Seed & Grain         |
| Alex          | 1k     | STS                |                    | IBL          | 5300         | 2                                  | Advantage Seed Grow&Proc    |
| Coatsworth    |        |                    | 3250               | Y            | 5300         | 8                                  | Hyland Seeds                |
| Nemecys 26R   | SC     | RR                 |                    | BL           | 6000         | 2                                  | First Line Seeds Ltd.       |
| 93B01         | 1k     | RR                 |                    | BL           | 7400         | 3                                  | Pioneer Hi-Bred Ltd.        |
| DKB26-52      | SC     | RR                 |                    | IBL          | 6800         | 4                                  | DEKALB                      |
| 3201R         |        | RR                 |                    | BR           | 7200         | 7                                  | First Line Seeds Ltd.       |
| AG2703        | 1k     | RR                 |                    | IBL          | 6600         | 6                                  | First Line Seeds Ltd.       |
| AV 1289       |        |                    |                    | BR           | 5900         | 7                                  | Agventure of Ontario        |
| 9305          | 1k     |                    |                    | Y            | 5500         | 2                                  | Pioneer Hi-Bred Ltd.        |
| 92B91         | SC     |                    |                    | Y            | 6900         | 7                                  | Pioneer Hi-Bred Ltd.        |
| S29-C9        |        | RR                 |                    | BR           | 6300         | 8                                  | Syngenta Seeds Canada Inc   |
| AV 2261       |        |                    |                    | BF           | 5800         | 5                                  | Agventure of Ontario        |

**Not**

HP - High Protein  
 SCN - SCN  
 MS - Metribuzin Sensitive  
 RR - Roundup Ready  
 STS - Sulfonylurea Tolerant

LS - Limited Supply  
 NA - Not Available

## 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:** Sulfonylurea 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 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.

### 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. For further information contact Tom Welacky.

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.

## 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.

| Variety               | Days to Mature | Yield Index (%) |                     |                |         | Plant Height (cm) | Lodging<br>1=Standing<br>5=Flat |
|-----------------------|----------------|-----------------|---------------------|----------------|---------|-------------------|---------------------------------|
|                       |                | Dundalk<br>1yr  | New Liskeard<br>1yr | Renfrew<br>2yr | Average |                   |                                 |
| Alta                  | 115            | 103             | 85                  | 91             | 92      | 79                | 2.5                             |
| Gentleman             | 117            | 106             | 84                  | 90             | 92      | 71                | 1.9                             |
| Accord                | 121            | 65              | 88                  | 87             | 83      | 88                | 2.3                             |
| Medallion             | 123            | 120             | 104                 | 93             | 102     | 70                | 2.3                             |
| 5007                  | 123            | 102             | 111                 | 90             | 99      | 68                | 1.5                             |
| Altesse               | 125            | 94              | 88                  | 100            | 95      | 84                | 2.4                             |
| OAC Walton            | 125            | 117             | 109                 | 102            | 108     | 78                | 1.9                             |
| Albinos               | 125            | 88              | 103                 | 94             | 95      | 82                | 2.4                             |
| OAC Salem             | 125            | 121             | 107                 | 93             | 103     | 75                | 1.8                             |
| AC Orford             | 127            | 90              | 94                  | 111            | 102     | 73                | 1.2                             |
| OAC Elora             | 128            | 93              | 106                 | 108            | 104     | 82                | 2.8                             |
| PRO 255               | 128            | 103             | 92                  | 90             | 93      | 65                | 1.5                             |
| Maple Glen            | 129            | 93              | 97                  | 108            | 101     | 75                | 1.5                             |
| Supra                 | 129            | 104             | 114                 | 112            | 111     | 79                | 1.7                             |
| OAC Erin              | 129            | 111             | 110                 | 114            | 112     | 78                | 2.2                             |
| AC Glengarry          | 130            | 97              | 107                 | 107            | 105     | 77                | 1.5                             |
| DKB00-99              | 130            | 91              | 101                 | 110            | 103     | 82                | 1.5                             |
| Average yield         |                | 2.37            | 3.35                | 2.66           | 2.76    |                   |                                 |
| Average yield (bu/ac) |                | 35.2            | 49.7                | 39.4           | 40.9    |                   |                                 |

#### Testing areas: Table 2

|              |    |      |      |
|--------------|----|------|------|
| Dundalk      | -- | --   | 2001 |
| New Liskeard | -- | --   | 2001 |
| Renfrew      | -- | 2000 | 2001 |

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

| Variety               | Days to Mature | Yield Index (%) |      |       |      |        |      |            |      |         |      | Plant Height (cm) | Lodging<br>1=Standing<br>5=Flat |
|-----------------------|----------------|-----------------|------|-------|------|--------|------|------------|------|---------|------|-------------------|---------------------------------|
|                       |                | Brussels        |      | Elora |      | Ottawa |      | Winchester |      | Average |      |                   |                                 |
|                       |                | 2yr             | 3yr  | 2yr   | 3yr  | 2yr    | 3yr  | 2yr        | 3yr  | 2yr     | 3yr  |                   |                                 |
| Accord                | 107            | 80              | 81   | 83    | 86   | 81     | 83   | 94         | 93   | 85      | 86   | 78                | 1.4                             |
| Aquilon               | 110            | 88              | 88   | 86    | 89   | 87     | 88   | 93         | 92   | 88      | 89   | 69                | 1.6                             |
| 90A07                 | 111            | 89              | 94   | 80    | 89   | 86     | 86   | 97         | 95   | 88      | 91   | 65                | 1.1                             |
| HS 2578               | 111            | 82              | 85   | 93    | 91   | 94     | 90   | 102        | 99   | 93      | 92   | 72                | 1.2                             |
| PS 36                 | 112            | 97              | 98   | 93    | 97   | 103    | 104  | 106        | 102  | 100     | 100  | 74                | 1.2                             |
| S 00-66               | 112            | 98              | 97   | 102   | 99   | 91     | 94   | 96         | 96   | 97      | 96   | 70                | 1.1                             |
| OAC Wintham           | 113            | 88              | 94   | 103   | 102  | 96     | 91   | 90         | 96   | 94      | 96   | 63                | 1.1                             |
| AC Proteina           | 113            | 89              | 77   | 93    | 82   | 89     | 88   | 90         | 89   | 90      | 84   | 71                | 1.1                             |
| Albinos               | 113            | 90              | 89   | 97    | 96   | 78     | 82   | 103        | 102  | 92      | 92   | 71                | 1.2                             |
| PS 39 RR              | 113            | 92              | --   | 90    | --   | 83     | --   | 92         | --   | 89      | --   | 67                | 1.2                             |
| DB1979                | 114            | 96              | 97   | 95    | 94   | 100    | 95   | 99         | 99   | 97      | 96   | 65                | 1.0                             |
| Korada                | 114            | 101             | 102  | 99    | 98   | 99     | 103  | 95         | 100  | 98      | 101  | 63                | 1.0                             |
| OAC Atwood            | 114            | 93              | 97   | 96    | 101  | 96     | 91   | 107        | 105  | 98      | 98   | 67                | 1.2                             |
| AC Rodeo              | 115            | 102             | --   | 102   | --   | 110    | --   | 100        | --   | 104     | --   | 75                | 1.1                             |
| OAC Clinton           | 115            | 105             | 109  | 107   | 108  | 106    | 105  | 107        | 102  | 107     | 106  | 72                | 1.1                             |
| OAC Elora             | 115            | 92              | 94   | 98    | 100  | 87     | 91   | 95         | 101  | 93      | 97   | 69                | 1.6                             |
| S02-G2                | 115            | 95              | 96   | 91    | 90   | 86     | 84   | 89         | 90   | 90      | 90   | 65                | 1.1                             |
| OAC Millennium        | 115            | 91              | 93   | 105   | 105  | 87     | 89   | 95         | 97   | 94      | 96   | 65                | 1.0                             |
| DKB00-99              | 115            | 99              | 96   | 103   | 98   | 89     | 90   | 95         | 95   | 96      | 95   | 75                | 1.1                             |
| S00-A6                | 115            | 96              | 94   | 106   | 101  | 91     | 92   | 87         | 93   | 95      | 95   | 63                | 1.0                             |
| ADV 0290F             | 116            | 100             | 104  | 98    | 101  | 114    | 111  | 110        | 105  | 106     | 105  | 76                | 1.3                             |
| KG 41                 | 116            | 91              | 92   | 84    | 86   | 80     | 85   | 97         | 98   | 88      | 90   | 65                | 1.1                             |
| 90B11                 | 116            | 97              | --   | 88    | --   | 83     | --   | 85         | --   | 88      | --   | 67                | 1.2                             |
| 2601R                 | 116            | 100             | 93   | 108   | 97   | 92     | 97   | 97         | 97   | 99      | 96   | 72                | 1.1                             |
| PS 46 RR              | 117            | 101             | 101  | 121   | 107  | 95     | 92   | 98         | 92   | 103     | 98   | 65                | 1.0                             |
| OAC Lucknow           | 117            | 104             | 104  | 99    | 102  | 109    | 106  | 96         | 96   | 102     | 102  | 73                | 1.2                             |
| OAC Brussels          | 117            | 105             | 106  | 112   | 109  | 96     | 99   | 87         | 96   | 100     | 102  | 64                | 1.1                             |
| S03-W4                | 117            | 111             | 112  | 106   | 106  | 117    | 115  | 103        | 103  | 109     | 109  | 74                | 1.1                             |
| Prophet               | 118            | 106             | 105  | 115   | 109  | 100    | 100  | 103        | 104  | 106     | 104  | 69                | 1.1                             |
| PS 43                 | 118            | 91              | 92   | 81    | 85   | 90     | 95   | 103        | 98   | 92      | 93   | 61                | 0.9                             |
| OAC Bayfield          | 119            | 110             | 111  | 122   | 114  | 111    | 113  | 111        | 105  | 113     | 111  | 74                | 1.2                             |
| Sierra                | 119            | 95              | 96   | 90    | 98   | 99     | 95   | 93         | 96   | 95      | 96   | 71                | 1.2                             |
| PS 44                 | 119            | 103             | 102  | 90    | 97   | 104    | 103  | 102        | 103  | 100     | 101  | 77                | 1.6                             |
| Fleming               | 120            | 113             | 113  | 109   | 107  | 109    | 110  | 102        | 102  | 108     | 108  | 65                | 1.0                             |
| OAC Auburn            | 120            | 104             | 105  | 99    | 103  | 106    | 109  | 96         | 98   | 101     | 104  | 74                | 1.2                             |
| PS 50                 | 120            | 102             | 103  | 100   | 101  | 108    | 104  | 100        | 98   | 103     | 102  | 76                | 1.6                             |
| RR Robust             | 120            | 95              | 94   | 86    | 89   | 96     | 95   | 88         | 93   | 91      | 93   | 78                | 1.2                             |
| B0501                 | 120            | 109             | 110  | 101   | 106  | 119    | 117  | 106        | 103  | 109     | 109  | 74                | 1.3                             |
| PS 55                 | 120            | 93              | 97   | 101   | 102  | 108    | 109  | 101        | 101  | 101     | 102  | 75                | 1.2                             |
| 90B73                 | 120            | 106             | 101  | 114   | 103  | 101    | 100  | 102        | 104  | 106     | 102  | 72                | 1.3                             |
| HS 2725               | 120            | 89              | 96   | 89    | 99   | 89     | 87   | 106        | 105  | 93      | 97   | 66                | 1.4                             |
| PRO 275               | 120            | 112             | 111  | 109   | 110  | 112    | 109  | 100        | 103  | 108     | 108  | 65                | 1.0                             |
| DKB07-75              | 121            | 114             | 114  | 105   | 106  | 121    | 120  | 99         | 99   | 110     | 110  | 71                | 1.0                             |
| 2702R                 | 121            | 112             | 105  | 114   | 105  | 104    | 103  | 103        | 100  | 108     | 103  | 73                | 1.1                             |
| 9071                  | 121            | 103             | 101  | 99    | 99   | 111    | 109  | 102        | 106  | 104     | 104  | 70                | 1.3                             |
| DKB07-51              | 121            | 111             | 107  | 116   | 107  | 103    | 102  | 102        | 103  | 108     | 105  | 73                | 1.1                             |
| Monarch               | 121            | 110             | --   | 111   | --   | 113    | --   | 108        | --   | 110     | --   | 80                | 1.0                             |
| Enterprise            | 122            | 107             | 108  | 97    | 102  | 105    | 106  | 111        | 109  | 105     | 107  | 70                | 1.1                             |
| Turbo                 | 122            | 106             | 106  | 93    | 101  | 109    | 111  | 107        | 107  | 104     | 106  | 70                | 1.3                             |
| AC Dundas             | 122            | 109             | --   | 111   | --   | 116    | --   | 114        | --   | 112     | --   | 75                | 1.3                             |
| PRO 270               | 122            | 104             | 109  | 107   | 108  | 118    | 119  | 112        | 110  | 110     | 112  | 72                | 1.1                             |
| MS0747                | 122            | 106             | 106  | 106   | 107  | 111    | 117  | 104        | 105  | 107     | 109  | 79                | 1.3                             |
| AC 2001               | 122            | 99              | 99   | 93    | 97   | 98     | 103  | 109        | 106  | 100     | 102  | 81                | 1.8                             |
| 9063                  | 123            | 108             | 108  | 110   | 108  | 103    | 103  | 104        | 105  | 106     | 106  | 69                | 1.3                             |
| Fiesta                | 123            | 110             | 107  | 101   | 102  | 108    | 110  | 105        | 101  | 106     | 105  | 64                | 1.0                             |
| PRO 2790R             | 124            | 100             | --   | 94    | --   | 104    | --   | 100        | --   | 100     | --   | 77                | 1.3                             |
| Average yield (T/ha)  |                | 2.57            | 2.72 | 2.39  | 2.83 | 2.68   | 2.91 | 2.59       | 2.88 | 2.55    | 2.84 |                   |                                 |
| Average yield (bu/ac) |                | 38.1            | 40.3 | 35.4  | 42.0 | 39.7   | 43.2 | 38.4       | 42.8 | 37.9    | 42.1 |                   |                                 |

Testing areas: Table 3

|            |      |      |      |
|------------|------|------|------|
| Brussels   | 1999 | 2000 | 2001 |
| Elora      | 1999 | 2000 | 2001 |
| Ottawa     | 1999 | 2000 | 2001 |
| Winchester | 1999 | 2000 | 2001 |

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

| Variety               | Days to Mature | Yield Index (%) |             |           |             |            |             |           |             |         |             | Plant Height (cm) | Lodging<br>1=Standing<br>5=flat |
|-----------------------|----------------|-----------------|-------------|-----------|-------------|------------|-------------|-----------|-------------|---------|-------------|-------------------|---------------------------------|
|                       |                | Exeter          |             | St. Pauls |             | Winchester |             | Woodstock |             | Average |             |                   |                                 |
|                       |                | 2yr             | 3yr         | 2yr       | 3yr         | 2yr        | 3yr         | 2yr       | 3yr         | 2yr     | 3yr         |                   |                                 |
| OAC Bayfield          | 116            | 98              | <b>99</b>   | 92        | <b>94</b>   | 101        | <b>101</b>  | 98        | <b>93</b>   | 98      | <b>97</b>   | 75                | 1.7                             |
| OAC Auburn            | 117            | 97              | <b>96</b>   | 91        | <b>90</b>   | 92         | <b>82</b>   | 91        | <b>93</b>   | 93      | <b>91</b>   | 75                | 1.3                             |
| 90B73                 | 118            | 94              | <b>97</b>   | 90        | <b>89</b>   | 90         | <b>93</b>   | 89        | <b>90</b>   | 91      | <b>92</b>   | 74                | 1.2                             |
| Delta                 | 118            | 100             | --          | 98        | --          | 107        | --          | 91        | --          | 99      | --          | 73                | 1.1                             |
| OAC Oxford            | 120            | 98              | <b>97</b>   | 108       | <b>108</b>  | 113        | <b>113</b>  | 100       | <b>100</b>  | 104     | <b>104</b>  | 78                | 1.1                             |
| PS 59                 | 120            | 106             | <b>109</b>  | 103       | <b>102</b>  | 109        | <b>109</b>  | 102       | <b>104</b>  | 105     | <b>106</b>  | 74                | 1.2                             |
| Fiesta                | 120            | 106             | <b>103</b>  | 95        | <b>97</b>   | 97         | <b>100</b>  | 97        | <b>96</b>   | 99      | <b>99</b>   | 68                | 1.0                             |
| OAC Exeter            | 121            | 94              | <b>94</b>   | 97        | <b>97</b>   | 91         | <b>87</b>   | 97        | <b>93</b>   | 95      | <b>93</b>   | 71                | 1.1                             |
| AP1394                | 121            | 100             | <b>96</b>   | 102       | <b>101</b>  | 106        | <b>106</b>  | 100       | <b>102</b>  | 102     | <b>101</b>  | 81                | 1.1                             |
| S 08-80               | 122            | 95              | <b>95</b>   | 111       | <b>108</b>  | 106        | <b>107</b>  | 95        | <b>98</b>   | 101     | <b>102</b>  | 76                | 1.3                             |
| Monarch               | 122            | 100             | --          | 106       | --          | 101        | --          | 96        | --          | 101     | --          | 79                | 1.1                             |
| 2802R                 | 123            | 95              | <b>95</b>   | 92        | <b>93</b>   | 104        | <b>103</b>  | 98        | <b>98</b>   | 97      | <b>97</b>   | 75                | 1.1                             |
| PRO 286               | 123            | 101             | <b>100</b>  | 107       | <b>106</b>  | 101        | <b>101</b>  | 98        | <b>99</b>   | 102     | <b>101</b>  | 73                | 1.2                             |
| Bounty                | 123            | 97              | <b>97</b>   | 98        | <b>97</b>   | 98         | <b>100</b>  | 91        | <b>95</b>   | 96      | <b>97</b>   | 72                | 1.1                             |
| RCAT Bobcat           | 123            | 100             | <b>104</b>  | 101       | <b>103</b>  | 104        | <b>100</b>  | 100       | <b>102</b>  | 101     | <b>102</b>  | 80                | 1.0                             |
| S10-T1                | 123            | 96              | <b>96</b>   | 93        | <b>93</b>   | 90         | <b>92</b>   | 90        | <b>90</b>   | 92      | <b>93</b>   | 68                | 1.0                             |
| Marathon              | 124            | 98              | <b>100</b>  | 89        | <b>91</b>   | 106        | <b>99</b>   | 97        | <b>95</b>   | 97      | <b>97</b>   | 81                | 1.9                             |
| A0868                 | 124            | 103             | <b>100</b>  | 102       | <b>104</b>  | 94         | <b>97</b>   | 101       | <b>102</b>  | 100     | <b>101</b>  | 71                | 1.3                             |
| PS 66 RR              | 125            | 98              | <b>96</b>   | 82        | <b>80</b>   | 86         | <b>90</b>   | 88        | <b>86</b>   | 89      | <b>88</b>   | 76                | 1.5                             |
| PS 73                 | 125            | 108             | <b>107</b>  | 115       | <b>112</b>  | 103        | <b>107</b>  | 105       | <b>109</b>  | 108     | <b>109</b>  | 78                | 1.3                             |
| Arva                  | 125            | 99              | <b>100</b>  | 103       | <b>103</b>  | 101        | <b>100</b>  | 105       | <b>105</b>  | 102     | <b>102</b>  | 76                | 1.2                             |
| 91B33                 | 125            | 103             | --          | 103       | --          | 94         | --          | 95        | --          | 99      | --          | 65                | 1.1                             |
| 91B12                 | 125            | 96              | --          | 98        | --          | 92         | --          | 96        | --          | 96      | --          | 69                | 1.2                             |
| S14-M7                | 126            | 94              | <b>95</b>   | 89        | <b>88</b>   | 101        | <b>97</b>   | 97        | <b>94</b>   | 95      | <b>94</b>   | 77                | 1.4                             |
| PRO 285               | 126            | 102             | <b>100</b>  | 103       | <b>104</b>  | 119        | <b>109</b>  | 110       | <b>106</b>  | 108     | <b>105</b>  | 83                | 1.8                             |
| PRO 288               | 126            | 101             | <b>101</b>  | 96        | <b>98</b>   | 101        | <b>105</b>  | 106       | <b>102</b>  | 101     | <b>101</b>  | 70                | 1.1                             |
| DKB13-51              | 126            | 102             | <b>102</b>  | 101       | <b>99</b>   | 93         | <b>92</b>   | 101       | <b>100</b>  | 100     | <b>98</b>   | 75                | 1.1                             |
| Crystal               | 127            | 102             | <b>101</b>  | 103       | <b>104</b>  | 110        | <b>110</b>  | 107       | <b>107</b>  | 105     | <b>105</b>  | 75                | 1.2                             |
| PRO 295               | 127            | 100             | <b>100</b>  | 109       | <b>109</b>  | 92         | <b>102</b>  | 108       | <b>111</b>  | 102     | <b>106</b>  | 82                | 1.5                             |
| Moore                 | 127            | 104             | <b>103</b>  | 109       | <b>111</b>  | 107        | <b>102</b>  | 107       | <b>106</b>  | 106     | <b>105</b>  | 75                | 1.5                             |
| Crown                 | 128            | 100             | <b>104</b>  | 103       | <b>105</b>  | 106        | <b>106</b>  | 108       | <b>106</b>  | 104     | <b>105</b>  | 79                | 1.4                             |
| PRO 3000              | 128            | 93              | --          | 97        | --          | 100        | --          | 100       | --          | 97      | --          | 79                | 1.8                             |
| 91B53                 | 129            | 105             | <b>102</b>  | 112       | <b>105</b>  | 105        | <b>105</b>  | 117       | <b>111</b>  | 110     | <b>106</b>  | 75                | 1.3                             |
| 91B64                 | 129            | 102             | <b>101</b>  | 100       | <b>101</b>  | 99         | <b>98</b>   | 98        | <b>98</b>   | 100     | <b>99</b>   | 76                | 1.2                             |
| RR Reign              | 130            | 98              | <b>98</b>   | 105       | <b>101</b>  | 78         | <b>81</b>   | 97        | <b>97</b>   | 95      | <b>95</b>   | 78                | 1.5                             |
| 5155                  | 130            | 107             | <b>105</b>  | 110       | <b>111</b>  | 102        | <b>102</b>  | 102       | <b>102</b>  | 105     | <b>105</b>  | 73                | 1.2                             |
| PS 78                 | 130            | 96              | <b>98</b>   | 105       | <b>105</b>  | 101        | <b>103</b>  | 106       | <b>104</b>  | 102     | <b>102</b>  | 91                | 1.5                             |
| PRO 292               | 130            | 109             | <b>108</b>  | 94        | <b>100</b>  | 110        | <b>110</b>  | 116       | <b>113</b>  | 107     | <b>108</b>  | 81                | 1.4                             |
| 91B52                 | 132            | 104             | <b>101</b>  | 90        | <b>91</b>   | 90         | <b>88</b>   | 99        | <b>95</b>   | 96      | <b>94</b>   | 72                | 1.2                             |
| Average yield (T/ha)  |                | 3.16            | <b>3.19</b> | 2.71      | <b>2.75</b> | 2.57       | <b>2.75</b> | 2.74      | <b>3.09</b> | 2.80    | <b>2.95</b> |                   |                                 |
| Average yield (bu/ac) |                | 46.9            | <b>47.3</b> | 40.2      | <b>40.9</b> | 38.1       | <b>40.8</b> | 40.7      | <b>45.9</b> | 41.5    | <b>43.7</b> |                   |                                 |

**Testing areas: Table 4**

|            |      |      |      |
|------------|------|------|------|
| Exeter     | 1999 | 2000 | 2001 |
| St. Pauls  | 1999 | 2000 | 2001 |
| Winchester | 1999 | 2000 | 2001 |
| Woodstock  | 1999 | 2000 | 2001 |



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

| Variety               | Days to Mature | Yield Index (%) |              |                |               |      |                 |      |              | Plant Height (cm) | Lodging 1=Standing 5=flat |
|-----------------------|----------------|-----------------|--------------|----------------|---------------|------|-----------------|------|--------------|-------------------|---------------------------|
|                       |                | Clay            |              |                | Loam          |      |                 |      |              |                   |                           |
|                       |                | Inwood 2yr      | 3yr Average* | *Clay Average* | Ridgetown 2yr | 3yr  | Talbotville 2yr | 3yr  | Loam Average |                   |                           |
| PRO 3000              | 117            | 79              | --           | --             | 91            | --   | 103             | --   | --           | 69                | 1.5                       |
| S 19-90               | 118            | 94              | 92           | <b>95</b>      | 104           | 101  | 109             | 102  | <b>102</b>   | 72                | 1.0                       |
| 9163                  | 119            | 97              | 94           | <b>97</b>      | 103           | 102  | 97              | 96   | <b>99</b>    | 74                | 1.4                       |
| Crown                 | 119            | 97              | --           | --             | 97            | --   | 103             | --   | --           | 74                | 2.0                       |
| 92B05                 | 120            | 95              | 92           | <b>94</b>      | 94            | 97   | 99              | 97   | <b>97</b>    | 70                | 1.3                       |
| PRO 3090R             | 120            | 102             | 99           | <b>97</b>      | 91            | 94   | 98              | 98   | <b>96</b>    | 72                | 1.3                       |
| PRO 292               | 120            | 93              | 92           | <b>99</b>      | 100           | 101  | 104             | 105  | <b>103</b>   | 71                | 1.4                       |
| S19-T9                | 121            | 106             | 104          | <b>104</b>     | 107           | 105  | 95              | 99   | <b>102</b>   | 67                | 1.2                       |
| Westag 97             | 121            | 109             | 107          | <b>104</b>     | 100           | 101  | 108             | 107  | <b>103</b>   | 68                | 1.3                       |
| AG1901                | 122            | 96              | 95           | <b>95</b>      | 98            | 96   | 104             | 106  | <b>100</b>   | 83                | 1.5                       |
| S20-F8                | 122            | 100             | 98           | <b>101</b>     | 104           | 105  | 106             | 104  | <b>105</b>   | 71                | 1.2                       |
| Ivory                 | 122            | 98              | 95           | <b>96</b>      | 104           | 104  | 105             | 106  | <b>105</b>   | 67                | 1.2                       |
| S20-Z5                | 123            | 99              | 98           | <b>99</b>      | 96            | 95   | 94              | 93   | <b>94</b>    | 68                | 1.2                       |
| 200                   | 123            | 100             | 101          | <b>102</b>     | 101           | 101  | 109             | 106  | <b>103</b>   | 69                | 1.1                       |
| AG2101                | 123            | 96              | 97           | <b>97</b>      | 97            | 95   | 98              | 98   | <b>96</b>    | 73                | 1.2                       |
| RCAT Legacy           | 123            | 110             | 105          | <b>101</b>     | 96            | 99   | 93              | 95   | <b>97</b>    | 65                | 1.3                       |
| PS 83                 | 123            | 90              | 90           | <b>92</b>      | 93            | 96   | 104             | 102  | <b>98</b>    | 80                | 1.4                       |
| DKB20-10              | 123            | 107             | 103          | <b>102</b>     | 90            | 93   | 100             | 98   | <b>95</b>    | 71                | 1.2                       |
| S23-Q3                | 123            | 94              | 96           | <b>96</b>      | 97            | 94   | 99              | 98   | <b>96</b>    | 73                | 1.4                       |
| Tornado               | 123            | 94              | 96           | <b>96</b>      | 101           | 100  | 100             | 99   | <b>100</b>   | 70                | 1.1                       |
| PS 86 RR              | 124            | 96              | 95           | <b>93</b>      | 96            | 96   | 101             | 97   | <b>96</b>    | 77                | 1.4                       |
| B2111RR               | 124            | 91              | 93           | <b>91</b>      | 98            | 97   | 95              | 96   | <b>97</b>    | 89                | 1.7                       |
| DKB20-84              | 124            | 94              | 96           | <b>100</b>     | 106           | 106  | 104             | 103  | <b>105</b>   | 69                | 1.1                       |
| OAC Kent              | 124            | 100             | 99           | <b>101</b>     | 111           | 109  | 106             | 107  | <b>108</b>   | 77                | 1.4                       |
| RR Renown             | 124            | 93              | 96           | <b>96</b>      | 92            | 94   | 95              | 98   | <b>95</b>    | 73                | 1.3                       |
| RS2297C               | 124            | 106             | 103          | <b>103</b>     | 100           | 102  | 96              | 99   | <b>101</b>   | 72                | 1.2                       |
| S 24-12               | 125            | 105             | 103          | <b>102</b>     | 106           | 106  | 105             | 99   | <b>103</b>   | 73                | 1.2                       |
| 92B38                 | 125            | 104             | --           | --             | 103           | --   | 97              | --   | --           | 75                | 1.3                       |
| PRO 315               | 126            | 109             | 110          | <b>108</b>     | 105           | 104  | 101             | 101  | <b>102</b>   | 74                | 1.3                       |
| CX235c                | 127            | 106             | 106          | <b>105</b>     | 112           | 105  | 100             | 99   | <b>103</b>   | 77                | 1.4                       |
| 3102R                 | 127            | 103             | 101          | <b>100</b>     | 95            | 98   | 100             | 103  | <b>100</b>   | 72                | 1.3                       |
| 92B37                 | 128            | 102             | 103          | <b>105</b>     | 109           | 105  | 105             | 108  | <b>106</b>   | 88                | 1.4                       |
| Kenwood 94            | 128            | 104             | 106          | <b>102</b>     | 90            | 92   | 81              | 89   | <b>91</b>    | 76                | 1.6                       |
| 92B61                 | 128            | 110             | 111          | <b>108</b>     | 109           | 105  | 103             | 104  | <b>105</b>   | 72                | 1.5                       |
| RS2595                | 128            | 106             | 106          | <b>109</b>     | 115           | 112  | 95              | 96   | <b>105</b>   | 74                | 1.4                       |
| DKB23-51              | 129            | 107             | 104          | <b>102</b>     | 98            | 97   | 101             | 101  | <b>99</b>    | 71                | 1.5                       |
| Loda                  | 129            | 98              | --           | --             | 94            | --   | 95              | --   | --           | 71                | 1.4                       |
| 2000                  | 129            | 98              | 98           | <b>95</b>      | 84            | 88   | 84              | 89   | <b>88</b>    | 75                | 2.0                       |
| Stine 2686            | 130            | 109             | 109          | <b>108</b>     | 102           | 104  | 106             | 104  | <b>104</b>   | 69                | 1.1                       |
| Alex                  | 130            | 103             | 104          | <b>102</b>     | 107           | 102  | 99              | 99   | <b>100</b>   | 77                | 1.8                       |
| Average yield (T/ha)  |                | 2.66            | 2.81         | <b>3.16</b>    | 4.03          | 4.13 | 3.03            | 3.19 | <b>3.66</b>  |                   |                           |
| Average yield (bu/ac) |                | 39.4            | 41.7         | <b>46.9</b>    | 59.8          | 61.3 | 44.9            | 47.3 | <b>54.3</b>  |                   |                           |

**Testing areas: Table 5**

|             |      |      |      |
|-------------|------|------|------|
| Dutton      | --   | 2000 | --   |
| Inwood      | 1999 | 2000 | 2001 |
| Ridgetown   | 1999 | 2000 | 2001 |
| Talbotville | 1999 | 2000 | 2001 |

\* **Clay Average** \* is the average of Inwood 1999-2000-2001 and Dutton 2000 data.

**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 | Loam Average |                   |                           |
| S 19-90               | 110            | 96              | 98          | 89           | 87           | <b>92</b>    | 95          | 99          | 97         | <b>98</b>    | 66                | 1.2                       |
| IA1008                | 114            | 98              | 101         | 86           | 89           | <b>94</b>    | 104         | 105         | 105        | <b>105</b>   | 73                | 1.2                       |
| RCAT Legacy           | 114            | 101             | 99          | 103          | 102          | <b>101</b>   | 94          | 95          | 100        | <b>97</b>    | 60                | 1.4                       |
| S 24-12               | 115            | 98              | 100         | 93           | 93           | <b>96</b>    | 96          | 97          | 100        | <b>98</b>    | 69                | 1.2                       |
| S24-L2                | 115            | 101             | 99          | 106          | 103          | <b>101</b>   | 106         | 106         | 99         | <b>103</b>   | 73                | 1.1                       |
| S25-H5                | 116            | 103             | 101         | 92           | 95           | <b>98</b>    | 103         | 102         | 98         | <b>100</b>   | 68                | 1.2                       |
| J-251                 | 116            | 101             | 101         | 101          | 103          | <b>102</b>   | 106         | 107         | 101        | <b>105</b>   | 67                | 1.2                       |
| 92B38                 | 116            | 100             | --          | 97           | --           | --           | 110         | --          | 104        | --           | 73                | 1.3                       |
| OAC Kent              | 116            | 100             | --          | 103          | --           | --           | 99          | --          | 104        | --           | 73                | 1.4                       |
| 92B61                 | 117            | 105             | 106         | 99           | 100          | <b>103</b>   | 98          | 97          | 103        | <b>100</b>   | 74                | 1.4                       |
| Kenwood 94            | 117            | 103             | 105         | 98           | 97           | <b>101</b>   | 98          | 95          | 97         | <b>96</b>    | 75                | 1.6                       |
| S24-K4                | 117            | 93              | 95          | 93           | 96           | <b>96</b>    | 108         | 106         | 100        | <b>104</b>   | 74                | 1.4                       |
| CX235c                | 117            | 96              | 97          | 98           | 96           | <b>96</b>    | 104         | 104         | 98         | <b>101</b>   | 72                | 1.2                       |
| PS 94 SCN             | 118            | 98              | 102         | 100          | 101          | <b>101</b>   | 94          | 92          | 102        | <b>97</b>    | 82                | 1.4                       |
| RCAT Dover            | 118            | 104             | 105         | 111          | 108          | <b>107</b>   | 111         | 108         | 107        | <b>108</b>   | 77                | 1.3                       |
| PS 95                 | 119            | 107             | 104         | 111          | 112          | <b>108</b>   | 105         | 102         | 102        | <b>102</b>   | 72                | 1.3                       |
| RR Renwick            | 119            | 96              | 97          | 104          | 101          | <b>99</b>    | 99          | 102         | 101        | <b>102</b>   | 74                | 1.2                       |
| Starburst             | 119            | 97              | 95          | 100          | 101          | <b>99</b>    | 93          | 95          | 97         | <b>96</b>    | 70                | 1.4                       |
| Loda                  | 119            | 97              | 98          | 91           | 94           | <b>96</b>    | 99          | 104         | 105        | <b>104</b>   | 69                | 1.2                       |
| A2553                 | 119            | 104             | 105         | 112          | 111          | <b>108</b>   | 105         | 106         | 107        | <b>107</b>   | 67                | 1.2                       |
| 92B75                 | 120            | 99              | 98          | 91           | 96           | <b>97</b>    | 92          | 95          | 93         | <b>95</b>    | 71                | 1.1                       |
| RCAT Staples          | 120            | 99              | 98          | 105          | 106          | <b>102</b>   | 98          | 97          | 103        | <b>100</b>   | 80                | 1.3                       |
| 92B62                 | 120            | 95              | --          | 94           | --           | --           | 97          | --          | 94         | --           | 72                | 1.4                       |
| RCAT Columbus         | 121            | 105             | 106         | 107          | 103          | <b>104</b>   | 103         | 101         | 98         | <b>100</b>   | 78                | 1.2                       |
| DKB26-51              | 121            | 95              | 94          | 98           | 97           | <b>96</b>    | 91          | 91          | 95         | <b>93</b>    | 76                | 1.2                       |
| Stine 2686            | 121            | 105             | --          | 101          | --           | --           | 101         | --          | 102        | --           | 65                | 1.1                       |
| Coatsworth            | 121            | 104             | 102         | 97           | 98           | <b>100</b>   | 98          | 96          | 101        | <b>98</b>    | 72                | 1.3                       |
| Nemecys 26R           | 121            | 101             | 101         | 97           | 98           | <b>99</b>    | 94          | 99          | 97         | <b>98</b>    | 70                | 1.2                       |
| 93B01                 | 122            | 98              | 94          | 99           | 98           | <b>96</b>    | 100         | 99          | 98         | <b>98</b>    | 68                | 1.1                       |
| DKB26-52              | 122            | 88              | 90          | 98           | 99           | <b>95</b>    | 103         | 101         | 98         | <b>100</b>   | 82                | 1.4                       |
| 3201R                 | 122            | 97              | 95          | 102          | 98           | <b>96</b>    | 103         | 100         | 97         | <b>98</b>    | 82                | 1.4                       |
| AG2703                | 122            | 98              | 96          | 101          | 99           | <b>97</b>    | 87          | 91          | 94         | <b>93</b>    | 76                | 1.2                       |
| AV 1289               | 122            | 110             | 108         | 108          | 106          | <b>107</b>   | 106         | 107         | 102        | <b>105</b>   | 68                | 1.3                       |
| 9305                  | 122            | 97              | 99          | 101          | 102          | <b>101</b>   | 87          | 92          | 96         | <b>94</b>    | 73                | 1.3                       |
| 92B91                 | 123            | 103             | 104         | 100          | 99           | <b>101</b>   | 100         | 99          | 105        | <b>101</b>   | 79                | 1.4                       |
| S29-C9                | 123            | 102             | 99          | 105          | 105          | <b>102</b>   | 105         | 103         | 99         | <b>102</b>   | 86                | 1.3                       |
| AV 2261               | 123            | 105             | 107         | 106          | 108          | <b>108</b>   | 107         | 105         | 102        | <b>104</b>   | 72                | 1.2                       |
| Average yield (T/ha)  |                | 2.83            | 2.78        | 3.38         | 3.39         | <b>3.08</b>  | 3.44        | 3.71        | 4.38       | <b>3.97</b>  |                   |                           |
| Average yield (bu/ac) |                | 42.0            | 41.2        | 50.2         | 50.3         | <b>45.7</b>  | 51.0        | 55.0        | 65.0       | <b>58.9</b>  |                   |                           |

**Testing areas: Table 6**

|          |      |      |      |
|----------|------|------|------|
| Tilbury  | 1999 | 2000 | 2001 |
| Woodslee | 1999 | 2000 | 2001 |
| Chatham  | 1999 | 2000 | 2001 |
| Malden   | --   | 2000 | 2001 |

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

| <i>Variety</i>            | Avg. of 7 tests (1999-2001) |                        | Avg. of 5 tests (1999-2001) |                        | Avg. of 4 tests (1999 & 2001) |                        |
|---------------------------|-----------------------------|------------------------|-----------------------------|------------------------|-------------------------------|------------------------|
|                           | <i>Days to Maturity</i>     | <i>Yield Index (%)</i> | <i>Days to Maturity</i>     | <i>Yield Index (%)</i> | <i>Days to Maturity</i>       | <i>Yield Index (%)</i> |
| RS2297C                   | 111                         | 121                    | 108                         | 146                    | 108                           | 173                    |
| IA 1008                   | 111                         | 134                    | 108                         | 150                    | 109                           | 168                    |
| 92B37                     | --                          | --                     | --                          | --                     | 114                           | 178                    |
| S25-H5                    | 114                         | 136                    | 112                         | 151                    | 113                           | 172                    |
| CX235c                    | 115                         | 135                    | 113                         | 152                    | 115                           | 170                    |
| DKB26-52                  | 116                         | 133                    | 113                         | 144                    | 113                           | 166                    |
| PS 94 SCN                 | 116                         | 138                    | 114                         | 150                    | 115                           | 169                    |
| Nemecys 26R               | 117                         | 138                    | 114                         | 152                    | 115                           | 171                    |
| Loda                      | 117                         | 127                    | 115                         | 137                    | 116                           | 164                    |
| 92B91                     | --                          | --                     | 118                         | 165                    | 119                           | 185                    |
| *Susceptible Yield Index: |                             | 100%                   |                             | 100%                   |                               | 100%                   |
| Susceptible Yield         | 2.17 T/ha or 32.2 bu/ac     |                        | 1.92 T/ha or 28.5 bu/ac     |                        | 1.66 T/ha or 24.7 bu/ac       |                        |

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

Test locations had moderate to high SCN infestations.

Resistance source is PI88788 for all varieties.

## Test Locations & Soil Types - 2001 Trials

| Location     | Table | Heat Unit Rating | Soil Type | Row Width (cm) | Seeding Rate (plant/ac) | Co-operator                      |
|--------------|-------|------------------|-----------|----------------|-------------------------|----------------------------------|
| Dundalk      | 2     | 2400             | clay      | 35             | 200,000                 | OAC                              |
| New Liskeard | 2     | 2400             | clay      | 18             | 200,000                 | N.L. Research                    |
| Renfrew      | 2     | 2500             | clay      | 20             | 200,000                 | Larry Reaburn                    |
| Ottawa       | 3     | 2650             | clay loam | 40             | 200,000                 | Research Centre, AAFC            |
| Brussels     | 3     | 2600             | clay loam | 35             | 200,000                 | Scott Cardiff                    |
| Elora        | 3     | 2550             | silt loam | 35             | 200,000                 | OAC                              |
| Winchester   | 3 & 4 | 2825             | clay loam | 35             | 200,000                 | Kemptville College, U. of Guelph |
| St. Paul's   | 4     | 2750             | clay loam | 35             | 200,000                 | Bernard Murray                   |
| Woodstock    | 4     | 2700             | clay loam | 35             | 200,000                 | Bob Hart                         |
| Exeter       | 4     | 2800             | clay loam | 35             | 200,000                 | Jack Glavin Farm                 |
| Talbotville  | 5     | 2900             | clay loam | 35             | 200,000                 | Tom Oegema                       |
| Ridgetown    | 5     | 3250             | clay loam | 43             | 160,000                 | Ridgetown College, U. of Guelph  |
| Inwood       | 5     | 3050             | clay      | 43             | 200,000                 | Tom Lassoline                    |
| Dutton       | 5     | 3100             | clay      | 43             | 200,000                 | Erie Ridge Farms Ltd.            |
| Tilbury      | 6     | 3350             | clay      | 60             | 240,000                 | Grant Guy                        |
| Woodslee     | 6     | 3400             | clay      | 60             | 240,000                 | Research Centre, AAFC, Harrow    |
| Chatham      | 6     | 3300             | clay loam | 60             | 160,000                 | Stan Wonnacott                   |
| Malden       | 6     | 3400             | clay loam | 60             | 240,000                 | Research Centre, AAFC, Harrow    |

## 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.**

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

### **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

### **Cooperative Federee de Quebec**

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

### **DEKALB**

Monsanto Canada Inc.  
Research Park Centre  
210-150 Research Lane  
Guelph, ON N1G 4T2  
Tel: 1-800-667-4944, Fax: 519-823-9733

### **Direct Seeds Inc.**

995 Richmond St., Chatham, ON N7M 5J5  
Tel 1-800-461-2676 Fax 519-352-9559

### **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

### **GROWMARK Inc.**

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

### **Hyland Seeds, Div. of WG Thompson & Sons Ltd.**

P.O. Box 130, Blenheim ON, N0P 1A0  
Tel: 519-676-8146 Fax: 519-676-5674

### **Pioneer Hi-Bred Ltd.**

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

### **Pride Seeds**

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

### **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

### **Semences Laguerre Inc.**

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

### **Semican Inc.**

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

### **Mike Snobelen Farms Ltd.**

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

### **Southwest Seeds Inc.**

RR#1, Ridgetown, ON  
Tel: 519-674-0054 Fax: 519-674-0388

### **Syngenta Seeds Canada, Inc.**

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