



2001 REPORT

Ontario Soybean Variety Trials Conducted in 1998-2000

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.

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

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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 Rating | Hilum Colour | Seeds per kg | Phytophthora Root Rot % Plant loss | Seed Supply | Distributor |
|----------------|-------|--------------------|------------------|--------------|--------------|------------------------------------|-------------|------------------------------|
| Costaud | | | 2375 | Y | 5300 | 6 | | Agrocentre Belcan |
| Alta | | | 2400 | IY | 4500 | 3 | | First Line Seeds Ltd. |
| Gentleman | | | 2400 | BR | 5600 | 5 | | Semican Atlantic Inc. |
| Accord | | | 2450 | LBR | 5800 | 3 | | Advantage Seed Grow&Proc |
| Altesse | | | 2450 | BR | 5400 | 2 | | SeCan Members |
| Medallion | | | 2450 | BR | 5300 | 4 | | Semican Atlantic Inc. |
| Corona | | | 2475 | BR | 5700 | 3 | | Hyland Seeds |
| PS 32 | | | 2475 | BR | 6000 | 6 | | Pride Seeds |
| 5007 | | | 2500 | BL | 6800 | 4 | | Mycogen Canada |
| OAC Walton | | | 2500 | DBR | 5200 | 4 | | PRO Seeds of Canada |
| OAC Prudence | | | 2525 | Y | 5200 | 5 | | SeCan Members |
| OAC Salem | | | 2525 | Y | 5200 | 4 | | Agrocentre Belcan |
| AC Orford | | | 2550 | IY | 4700 | 3 | | Semican Atlantic Inc. |
| Aquilon | | | 2550 | BL | 4800 | 4 | | Advantage Seed Grow&Proc |
| HS 2578 | | | 2550 | IY | 5100 | 4 | | GROWMARK Inc. |
| HS 2688 | | MS | 2550 | BR | 5000 | 3 | | GROWMARK Inc. |
| PRO 255 | | | 2550 | Y | 5100 | 6 | | PRO Seeds of Canada |
| S00-66 | 1a | | 2550 | BR | 5200 | 3 | | Syngenta Seeds Inc |
| AC Proteina | HP | | 2575 | BR | 6100 | 3 | | Semican Atlantic Inc. |
| Albinos | | | 2575 | Y | 5100 | 4 | | Semican Atlantic Inc. |
| PS 36 | 1a | | 2575 | Y | 4900 | 5 | | Pride Seeds |
| Maple Glen | | | 2600 | IY | 5200 | 3 | | SeCan Members |
| OAC Atwood | | | 2600 | Y | 5500 | 3 | | Advantage Seed Grow&Proc |
| 2601R | 1c | RR | 2625 | BR | 5400 | 3 | | First Line Seeds Ltd. |
| AC Glengarry | | | 2625 | IY | 5600 | 2 | | SeCan Members |
| HS 2689 | | | 2625 | BR | 5300 | 2 | | GROWMARK Inc. |
| OAC Nepean | | | 2625 | BR | 5400 | 3 | NA | SeCan Members |
| OAC Wingham | | | 2625 | BR | 5900 | 4 | | SeCan Members |
| Cabot | | | 2650 | BR | 5300 | 3 | | First Line Seeds Ltd. |
| DB1979 | | | 2650 | BR | 4700 | 3 | | Advantage Seed Grow&Proc |
| DKB00-99 | | RR | 2650 | BR | 5800 | 4 | | DEKALB |
| OAC Erin | | | 2650 | Y | 7100 | 8 | | PRO Seeds of Canada |
| OAC Millennium | | | 2650 | BR | 6300 | 3 | | PRO Seeds of Canada |
| 90B31 | | RR | 2675 | BR | 6500 | 10 | | Pioneer Hi-Bred Ltd. |
| B0501 | 1k | | 2675 | Y | 6200 | 7 | | Dow AgroSciences Canada Ltd. |
| KG 41 | | | 2675 | Y | 5300 | 3 | | Pride Seeds |
| Korada | 1c | | 2675 | IY | 5300 | 4 | | First Line Seeds Ltd. |
| OAC Clinton | | | 2675 | IY | 5400 | 1 | | PRO Seeds of Canada |
| PS 42 | | | 2675 | LBF | 4900 | 3 | | Pride Seeds |
| S03-W4 | 1c | | 2675 | IY | 4900 | 5 | | Syngenta Seeds Inc |
| Achiever | | | 2700 | IY | 5200 | 5 | | Mapleseed |
| ADV 0290F | | | 2700 | BR | 5300 | 6 | | Advantage Seed Grow&Proc |
| HS 2778 | | MS | 2700 | LBR | 5600 | 2 | | GROWMARK Inc. |
| OAC Auburn | | | 2700 | BR | 5200 | 7 | | Advantage Seed Grow&Proc |
| OAC Brussels | | | 2700 | BR | 5000 | 3 | | SeCan Members |
| OAC Lucknow | | | 2700 | GR | 5200 | 3 | | SeCan Members |
| Prophet | | | 2700 | IY | 5300 | 3 | | Hyland Seeds |
| PS 43 | 1a | | 2700 | Y | 5400 | 3 | | Pride Seeds |
| Sierra | | | 2700 | IY | 4400 | 3 | | PRO Seeds of Canada |
| AC 2001 | | | 2725 | BR | 5500 | 2 | | SeCan Members |
| PS 46 RR | | RR | 2725 | BL | 4900 | 3 | | Pride Seeds |
| S04-E1 | 1c | RR | 2725 | BR | 5300 | 2 | | Syngenta Seeds Inc |
| 9063 | | | 2750 | GR | 5200 | 3 | | Pioneer Hi-Bred Ltd. |
| 90B73 | | MS RR | 2750 | BR | 5400 | 5 | | Pioneer Hi-Bred Ltd. |
| CX066 | | | 2750 | BR | 5200 | 5 | | DEKALB |
| OAC Bayfield | | | 2750 | BR | 5100 | 3 | | SeCan Members |
| OAC Woodstock | | | 2750 | BL | 4600 | 2 | | Hendrick Seeds |
| PS 50 | | | 2750 | BR | 4900 | 3 | | Pride Seeds |
| PS 55 | 1a | | 2750 | BR | 5500 | 8 | | Pride Seeds |
| S09-Y9 | 1c | RR | 2750 | GR | 5600 | 3 | | Syngenta Seeds Inc |
| 9071 | 1c | | 2775 | Y | 6100 | 4 | | Pioneer Hi-Bred Ltd. |
| 91B01 | 1k | | 2775 | BL | 5900 | 8 | | Pioneer Hi-Bred Ltd. |
| AP1394 | 1c | | 2775 | GR | 5800 | 5 | | Mapleseed, Renk Seeds |
| B0601 | | | 2775 | IY | 5200 | 8 | | Dow AgroSciences Canada Ltd. |
| Enterprise | | | 2775 | IY | 5100 | 1 | | Hyland Seeds |
| Fiesta | | | 2775 | BR | 5300 | 2 | | PRO Seeds of Canada |
| Fleming | | | 2775 | GR | 5500 | 3 | | First Line Seeds Ltd. |
| MS0747 | | | 2775 | BR | 5400 | 3 | | Mapleseed |

Notes:

SCN - SCN resistant

HP - High Protein

MS - Metribuzin Sensitive

RR - Roundup Ready

STS - Sulfonyleurea Tolerant

LS - Limited Supply

NA - Not Available

Table 1. Continued

| <i>Variety</i> | <i>Notes</i> | <i>Herbicide Reaction</i> | <i>Heat Unit Rating</i> | <i>Hilum Colour</i> | <i>Seeds per kg</i> | <i>Phytophthora Root Rot % Plant loss</i> | <i>Seed Supply</i> | <i>Distributor</i> |
|----------------|--------------|---------------------------|-------------------------|---------------------|---------------------|---|--------------------|------------------------------|
| OAC Embro | | | 2775 | IY | 5400 | 3 | | Semican Atlantic Inc. |
| PRO 270 | | | 2775 | BR | 5400 | 2 | LS | PRO Seeds of Canada |
| RR Robust | | RR | 2775 | BR | 4900 | 11 | | Hyland Seeds |
| 2702R | | RR | 2800 | BL | 5400 | 4 | | First Line Seeds Ltd. |
| 90B93 | 1c | RR | 2800 | BL | 5900 | 4 | | Pioneer Hi-Bred Ltd. |
| DKB07-51 | | RR | 2800 | BL | 5900 | 5 | | DEKALB |
| OAC Eclipse | 1c | | 2800 | BR | 5200 | 3 | | SeCan Members |
| OAC Oxford | | | 2800 | IY | 5300 | 5 | NA | SeCan Members |
| Turbo | | | 2800 | IY | 4800 | 4 | | Mike Snobelen Farms Ltd |
| 2802R | 1k | RR | 2825 | BL | 6000 | 2 | LS | First Line Seeds Ltd. |
| Bounty | | MS | 2825 | Y | 5400 | 10 | | Hyland Seeds |
| Humber | | | 2825 | GR | 5100 | 1 | | First Line Seeds Ltd. |
| OAC Exeter | | | 2825 | Y | 5000 | 3 | | First Line Seeds Ltd. |
| OAC Stratford | | | 2825 | BF | 4800 | 3 | | PRO Seeds of Canada |
| S08-80 | 1c | | 2825 | IY | 4900 | 5 | | Syngenta Seeds Inc |
| S10-F2 | 1c | | 2825 | BL | 6500 | 2 | | Syngenta Seeds Inc |
| Stine 0280 | | | 2825 | BL | 5100 | 8 | | Advantage Seed Grow&Proc |
| Zephyr | | | 2825 | IY | 5100 | 3 | | First Line Seeds Ltd. |
| 5081 | | | 2850 | GR | 5200 | 8 | | Mycogen Canada |
| HS 2888 | 1c | | 2850 | GR | 5600 | 6 | | GROWMARK Inc. |
| Marathon | | | 2850 | Y | 5100 | 6 | | Hyland Seeds |
| RCAT Bobcat | | | 2850 | IY | 5100 | 3 | | SeCan Members |
| A0868 | 1k | | 2875 | IY | 5900 | 5 | | Dow AgroSciences Canada Ltd. |
| Arva | | | 2875 | Y | 5400 | 5 | | Advantage Seed Grow&Proc |
| PRO 285 | | | 2875 | BF | 5000 | 7 | | PRO Seeds of Canada |
| PRO 286 | | | 2875 | GR | 5500 | 2 | LS | PRO Seeds of Canada |
| Sentry | | | 2875 | IY | 5200 | 6 | | Hyland Seeds |
| ADV 0990F | 1c | | 2900 | Y | 5500 | 6 | | Advantage Seed Grow&Proc |
| HS 2988 | | | 2900 | BR | 5500 | 4 | | GROWMARK Inc. |
| PS 66 RR | | RR | 2900 | BR | 5200 | 8 | | Pride Seeds |
| PS 73 | | | 2900 | LBF | 5400 | 4 | | Pride Seeds |
| 140 | 1k | | 2925 | BR | 5300 | 4 | NA | Mycogen Canada |
| 9163 | 1c | | 2925 | Y | 5800 | 4 | | Pioneer Hi-Bred Ltd. |
| A1553 | 1k | | 2925 | BL | 6300 | 4 | | Dow AgroSciences Canada Ltd. |
| B1301 | | | 2925 | BL | 5700 | 4 | | Dow AgroSciences Canada Ltd. |
| Crystal | | | 2925 | Y | 5500 | 6 | LS | Hyland Seeds |
| DKB13-51 | 1a | RR | 2925 | BL | 5800 | 9 | LS | DEKALB |
| DKB15-15 | | | 2925 | GR | 5100 | 5 | | DEKALB |
| Moore | | | 2925 | BL | 5900 | 2 | | Hyland Seeds |
| Telstar | | | 2925 | BR | 5300 | 5 | | Hyland Seeds |
| S14-M7 | 1c | RR | 2950 | GR | 5200 | 3 | | Syngenta Seeds Inc |
| 2901R | 1c | RR | 2975 | BR | 5500 | 6 | | First Line Seeds Ltd. |
| 5155 | | | 2975 | BR | 5200 | 9 | | Mycogen Canada |
| 91B52 | 1k | RR | 2975 | IBL | 6000 | 2 | | Pioneer Hi-Bred Ltd. |
| 91B53 | | | 2975 | BR | 6100 | 1 | | Pioneer Hi-Bred Ltd. |
| HS 3078 | 1k | | 2975 | BL | 5800 | 4 | | GROWMARK Inc. |
| PRO 295 | | | 2975 | BL | 5800 | 6 | | PRO Seeds of Canada |
| 91B64 | 1c | RR | 3000 | BL | 6000 | 4 | | Pioneer Hi-Bred Ltd. |
| 92B05 | 1k | RR | 3000 | BR | 5900 | 1 | | Pioneer Hi-Bred Ltd. |
| AP1876 | 1k | | 3000 | BL | 5000 | 4 | | Mapleseed |
| Crown | | | 3000 | Y | 5500 | 3 | | Hyland Seeds |
| Crusher | | | 3000 | BL | 5500 | 4 | | SeCan Members |
| HS 2909 | | RR | 3000 | IBL | 6100 | 7 | | GROWMARK Inc. |
| OAC Bright | | | 3000 | Y | 5000 | 7 | | First Line Seeds Ltd. |
| PRO 292 | | | 3000 | IBL | 5400 | 8 | | PRO Seeds of Canada |
| RR Reign | | RR | 3000 | BR | 7000 | 6 | | Hyland Seeds |
| S18-11 | SCN | | 3000 | BL | 4100 | 4 | | Syngenta Seeds Inc |
| S19-90 | 1c | | 3000 | GR | 4700 | 5 | | Syngenta Seeds Inc |
| Sapphire | | | 3000 | Y | 5500 | 8 | | Hyland Seeds |
| Stine 2500 | | | 3000 | IY | 5700 | 3 | | Advantage Seed Grow&Proc |
| A2161 | 1k | STS | 3025 | IBL | 5700 | 4 | | Dow AgroSciences Canada Ltd. |
| AG1901 | 1k | RR | 3025 | BL | 5900 | 3 | | First Line Seeds Ltd. |
| HS 3168 | | | 3025 | BF | 5400 | 5 | | GROWMARK Inc. |
| M-210 | | | 3025 | Y | 5400 | 8 | | Mycogen Canada |
| PS 84 SCN | SCN | | 3025 | BR | 5000 | 2 | | Pride Seeds |
| PS 78 | 1c | | 3025 | Y | 5400 | 3 | | Pride Seeds |
| Westag 97 | | | 3025 | BF | 5000 | 2 | | SeCan Members |
| 200 | | | 3050 | BL | 5900 | 3 | | Mycogen Canada |

Notes

SCN - SCN resistant
HP - High Protein

MS - Metribuzin Sensitive
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LS - Limited Supply
NA - Not Available

Table 1. Continued

| <i>Variety</i> | <i>Notes</i> | <i>Herbicide Reaction</i> | <i>Heat Unit Rating</i> | <i>Hilum Colour</i> | <i>Seeds per kg</i> | <i>Phytophthora Root Rot % Plant loss</i> | <i>Seed Supply</i> | <i>Distributor</i> |
|----------------|--------------|---------------------------|-------------------------|---------------------|---------------------|---|--------------------|------------------------------|
| A2069 | SCN 1k | | 3050 | BL | 5400 | 3 | | First Line Seeds Ltd. |
| AG2101 | 1k | RR | 3050 | BL | 6000 | 2 | | First Line Seeds Ltd. |
| Bailey | SCN | | 3050 | BL | 5700 | 4 | | Hyland Seeds |
| DKB20-10 | 1k | RR | 3050 | BL | 5300 | 3 | | DEKALB |
| DKB20-84 | 1k | | 3050 | BL | 5400 | 2 | | DEKALB |
| PS 86 RR | 1k | RR | 3050 | BL | 5600 | 2 | | Pride Seeds |
| S19-T9 | 1c | | 3050 | GR | 4900 | 3 | | Syngenta Seeds Inc |
| S20-F8 | 1c | | 3050 | Y | 5100 | 5 | | Syngenta Seeds Inc |
| Tornado | | | 3050 | IY | 5100 | 4 | | Hyland Seeds |
| 9234 | SCN | | 3075 | BR | 5800 | 8 | | Pioneer Hi-Bred Ltd. |
| 92B25 | | STS | 3075 | BL | 6000 | 0 | | Pioneer Hi-Bred Ltd. |
| CK-01 | | | 3075 | Y | 4900 | 6 | LS | Shanks Seeds Ltd |
| CX232 | | | 3075 | BR | 5400 | 4 | | DEKALB |
| HS3009 | | RR | 3075 | BL | 6400 | 8 | | GROWMARK Inc. |
| IA1008 | SCN | | 3075 | Y | 5100 | 6 | | Hyland Seeds |
| Ivory | | | 3075 | Y | 5200 | 5 | | First Line Seeds Ltd. |
| OAC Glencoe | | | 3075 | BR | 5600 | 2 | | SeCan Members |
| PS 83 | | | 3075 | Y | 5500 | 22 | | Pride Seeds |
| RCAT Legacy | | | 3075 | Y | 4700 | 4 | | SeCan Members |
| RS2297C | SCN 1k | | 3075 | IBL | 5300 | 4 | | Renk Seed Co. of Canada |
| S20-B9 | 1c | RR | 3075 | GR | 5000 | 5 | | Syngenta Seeds Inc |
| S20-Z5 | 1a | RR | 3075 | BR | 5500 | 4 | | Syngenta Seeds Inc |
| Stratus | | | 3075 | BR | 4900 | 4 | | Hyland Seeds |
| 92B51 | 1k | RR | 3100 | BL | 6200 | 2 | | Pioneer Hi-Bred Ltd. |
| DKB22-80 | 1c | | 3100 | Y | 6500 | 16 | | DEKALB |
| Kenwood 94 | 1k | | 3100 | BL | 5800 | 4 | | SeCan Members |
| RR Renown | | RR | 3100 | BL | 5500 | 3 | | Hyland Seeds |
| S24-12 | | | 3100 | Y | 5000 | 2 | | Syngenta Seeds Inc |
| S23-Q3 | 1c | RR | 3100 | GR | 5600 | 2 | | Syngenta Seeds Inc |
| S24-L2 | 1c | | 3100 | BR | 5000 | 5 | | Syngenta Seeds Inc |
| 92B61 | 1k | | 3125 | BL | 5600 | 2 | | Pioneer Hi-Bred Ltd. |
| HS 3109 | | RR | 3125 | BL | 6900 | 4 | | GROWMARK Inc. |
| J-251 | | | 3125 | BR | 5600 | 1 | | Mycogen Canada |
| PRO 315 | 1k | | 3125 | BL | 4900 | 4 | | PRO Seeds of Canada |
| RS2595 | 1k | | 3125 | BL | 5200 | 4 | | Renk Seed Co. of Canada |
| TS210 | | | 3125 | BR | 5400 | 2 | | Southwest Seeds |
| Wizard | 1k | | 3125 | BL | 5800 | 2 | | First Line Seeds Ltd. |
| 2000 | | STS | 3150 | BR | 5500 | 5 | | Inwood Seed & Grain |
| 3102R | 1k | RR | 3150 | IBL | 5600 | 4 | | First Line Seeds Ltd. |
| 92B35 | SCN | | 3150 | BF | 6300 | 3 | | Pioneer Hi-Bred Ltd. |
| 92B71 | | RR | 3150 | BR | 6200 | 2 | | Pioneer Hi-Bred Ltd. |
| Alex | 1k | STS | 3150 | IBL | 5300 | 3 | | Advantage Seed Grow&Proc |
| CX235c | SCN | | 3150 | BL | 5700 | 3 | | DEKALB |
| RR Renwick | | RR | 3150 | BL | 5800 | 2 | | Hyland Seeds |
| S24-K4 | 1a | RR | 3150 | BR | 6000 | 4 | | Syngenta Seeds Inc |
| Starburst | | | 3150 | Y | 5700 | 2 | | Hyland Seeds |
| TS255 | | | 3150 | BR | 5200 | 2 | | Southwest Seeds |
| A2553 | 1k | | 3175 | IBL | 5900 | 4 | | Dow AgroSciences Canada Ltd. |
| RCAT Columbus | | | 3175 | BL | 5500 | 5 | | Ferguson Seeds |
| RCAT Staples | 1c | | 3175 | BR | 5000 | 4 | | SeCan Members |
| Stine 2686 | | | 3175 | Y | 5600 | 4 | | Advantage Seed Grow&Proc |
| 3201R | | RR | 3200 | BL | 6800 | 6 | | First Line Seeds Ltd. |
| 5261 | | | 3200 | BL | 5800 | 3 | | Mycogen Canada |
| 92B91 | SCN 1a | | 3200 | Y | 6700 | 4 | | Pioneer Hi-Bred Ltd. |
| Coatsworth | | | 3200 | Y | 5000 | 8 | LS | Hyland Seeds |
| DKB23-51 | 1a | RR | 3200 | BL | 6100 | 3 | | DEKALB |
| DKB26-51 | 1k | RR | 3200 | BL | 6400 | 6 | | DEKALB |
| Nemecys 26R | SCN 1k | RR | 3200 | BL | 5800 | 2 | | First Line Seeds Ltd. |
| 9305 | 1k | | 3225 | Y | 5400 | 2 | | Pioneer Hi-Bred Ltd. |
| AG2703 | 1k | RR | 3225 | IBL | 6700 | 8 | | First Line Seeds Ltd. |
| AV2261 | | | 3225 | BF | 5600 | 5 | LS | Miehls Seeds Inc. |
| DKB26-52 | SCN 1a | RR | 3225 | IBL | 6800 | 5 | | DEKALB |
| S28-V8 | 1a | RR | 3225 | GR | 6300 | 4 | | Syngenta Seeds Inc |
| S29-C9 | 1a | RR | 3225 | BR | 5900 | 6 | | Syngenta Seeds Inc |

Notes

SCN - SCN resistant
HP - High Protein

MS - Metribuzin Sensitive
RR - Roundup Ready
STS - Sulfonyleurea 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

1a: Provides resistance against very few races of Phytophthora in Ontario

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

Herbicide Reaction

MS: Metribuzin herbicide should not be used on these varieties

RR: Roundup Ready™ (Trademark of Monsanto Company)

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

Heat Unit Rating

Using the same crop heat unit system as for corn, each variety is given a heat unit rating based on the relative maturity of that variety in the most recent 2 years of test results. In choosing a variety you should select those varieties approximately equal to or less than the heat units available on your farm.

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 (13% in 1998).

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

| <i>Variety</i> | <i>Days to Mature</i> | <i>Yield index (%)</i> | | <i>Plant Height (cm)</i> | <i>Lodging 1=Standing 5=flat</i> |
|-----------------------|-----------------------|------------------------|--|--------------------------|----------------------------------|
| | | <i>Renfrew</i> | | | |
| | | <i>1yr</i> | | | |
| Accord | 122 | 97 | | 81 | 2.4 |
| Costaud | 122 | 100 | | 63 | 2.3 |
| Alta | 123 | 97 | | 76 | 1.9 |
| Altesse | 125 | 110 | | 85 | 2.8 |
| Gentleman | 125 | 81 | | 64 | 1.6 |
| Medallion | 125 | 98 | | 70 | 2.4 |
| Corona | 126 | 91 | | 68 | 1.9 |
| OAC Walton | 127 | 103 | | 71 | 2.1 |
| PS 32 | 127 | 97 | | 62 | 1.2 |
| 5007 | 127 | 96 | | 64 | 1.0 |
| OAC Prudence | 128 | 95 | | 70 | 1.7 |
| OAC Salem | 128 | 80 | | 64 | 1.4 |
| AC Orford | 129 | 121 | | 70 | 1.0 |
| PRO 255 | 129 | 104 | | 61 | 1.7 |
| HS 2578 | 131 | 105 | | 72 | 2.4 |
| Maple Glen | 131 | 104 | | 69 | 1.4 |
| AC Glengarry | 132 | 108 | | 74 | 1.7 |
| Albinos | 132 | 106 | | 77 | 2.6 |
| OAC Nepean | 132 | 77 | | 55 | 1.1 |
| OAC Erin | 133 | 118 | | 73 | 2.8 |
| DKB00-99 | 134 | 113 | | 78 | 1.3 |
| Average yield (T/ha) | | 2.8 | | | |
| Average yield (bu/ac) | | 42.6 | | | |

Testing areas: Table 2

Renfrew - - 2000

TABLE 3. AGRONOMIC DATA 2500-2800 HEAT UNIT AREAS

| Variety | Days to Mature | Yield index (%) | | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|-----------------------|----------------|-----------------|-------------|-------|-------------|--------|-------------|------------|-------------|---------|-------------|-------------------|---------------------------------|
| | | Brussels | | Elora | | Ottawa | | Winchester | | Average | | | |
| | | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | | |
| Accord | 108 | 86 | 80 | 94 | 92 | 82 | 84 | 91 | 88 | 88 | 86 | 80 | 1.5 |
| PS 32 | 109 | 83 | 79 | 86 | 86 | 60 | 65 | 81 | 77 | 77 | 77 | 62 | 1.1 |
| Medallion | 111 | 92 | 89 | 93 | 93 | 70 | 78 | 96 | 92 | 87 | 88 | 68 | 1.4 |
| AC Orford | 112 | 89 | -- | 92 | -- | 81 | -- | 92 | -- | 88 | -- | 64 | 1.0 |
| HS 2578 | 112 | 92 | 88 | 95 | 95 | 88 | 88 | 97 | 96 | 93 | 92 | 77 | 1.2 |
| Aquilon | 113 | 95 | 88 | 94 | 94 | 94 | 91 | 95 | 91 | 95 | 91 | 74 | 1.9 |
| S00-66 | 113 | 99 | 94 | 98 | 99 | 96 | 93 | 101 | 100 | 98 | 97 | 74 | 1.0 |
| AC Proteina | 114 | 71 | 67 | 81 | 82 | 88 | 90 | 87 | 88 | 82 | 82 | 75 | 1.1 |
| Albinos | 114 | 89 | 86 | 100 | 98 | 81 | 84 | 101 | 94 | 93 | 91 | 75 | 1.2 |
| PS 36 | 114 | 104 | 99 | 104 | 101 | 102 | 99 | 103 | 102 | 103 | 100 | 82 | 1.1 |
| HS 2689 | 115 | 103 | 100 | 100 | 100 | 95 | 98 | 101 | 98 | 100 | 99 | 73 | 1.2 |
| OAC Wingham | 115 | 99 | 98 | 98 | 96 | 94 | 92 | 100 | 97 | 98 | 96 | 69 | 1.1 |
| DB1979 | 116 | 98 | 94 | 94 | 96 | 92 | 95 | 97 | 97 | 95 | 95 | 69 | 1.0 |
| OAC Atwood | 116 | 101 | 99 | 103 | 100 | 88 | 94 | 104 | 102 | 99 | 99 | 71 | 1.3 |
| OAC Millennium | 116 | 92 | 92 | 98 | 98 | 88 | 89 | 96 | 99 | 93 | 95 | 68 | 1.1 |
| 2601R | 117 | 91 | 91 | 94 | 95 | 97 | 93 | 98 | 98 | 95 | 94 | 78 | 1.1 |
| DKB00-99 | 117 | 95 | 94 | 97 | 99 | 90 | 90 | 94 | 98 | 94 | 95 | 81 | 1.1 |
| KG 41 | 117 | 96 | 90 | 92 | 92 | 90 | 92 | 97 | 99 | 94 | 93 | 71 | 1.1 |
| Korada | 117 | 104 | 108 | 97 | 99 | 103 | 101 | 99 | 99 | 101 | 101 | 67 | 1.1 |
| OAC Clinton | 117 | 112 | 109 | 111 | 110 | 102 | 104 | 102 | 102 | 107 | 106 | 80 | 1.2 |
| ADV 0290F | 118 | 107 | -- | 105 | -- | 111 | -- | 101 | -- | 106 | -- | 82 | 1.4 |
| B0501 | 118 | 108 | 112 | 110 | 107 | 119 | 119 | 101 | 105 | 110 | 110 | 78 | 1.4 |
| Cabot | 118 | 103 | 104 | 98 | 99 | 100 | 100 | 105 | 100 | 101 | 100 | 74 | 1.6 |
| OAC Brussels | 118 | 104 | 99 | 103 | 101 | 101 | 93 | 97 | 99 | 101 | 98 | 69 | 1.2 |
| OAC Lucknow | 118 | 109 | 107 | 107 | 104 | 108 | 103 | 99 | 96 | 106 | 102 | 77 | 1.2 |
| PS 42 | 118 | 97 | 99 | 96 | 97 | 102 | 102 | 103 | 105 | 99 | 101 | 69 | 1.3 |
| Achiever | 119 | 101 | 106 | 102 | 101 | 108 | 106 | 106 | 105 | 105 | 105 | 84 | 1.8 |
| Prophet | 119 | 105 | 104 | 111 | 111 | 101 | 101 | 105 | 104 | 105 | 105 | 76 | 1.2 |
| PS 43 | 119 | 94 | 95 | 92 | 94 | 97 | 100 | 95 | 98 | 95 | 97 | 64 | 1.0 |
| PS 46 RR | 119 | 100 | 100 | 95 | 96 | 93 | 92 | 90 | 89 | 95 | 94 | 69 | 1.0 |
| S03-W4 | 119 | 112 | 107 | 104 | 106 | 115 | 113 | 103 | 107 | 109 | 108 | 78 | 1.1 |
| S04-E1 | 119 | 95 | -- | 93 | -- | 96 | -- | 94 | -- | 95 | -- | 70 | 1.1 |
| 90B31 | 120 | 91 | -- | 85 | -- | 83 | -- | 90 | -- | 87 | -- | 65 | 1.4 |
| HS 2778 | 120 | 94 | 102 | 89 | 93 | 88 | 93 | 90 | 93 | 90 | 95 | 58 | 1.1 |
| Sierra | 120 | 96 | 97 | 103 | 104 | 95 | 98 | 95 | 101 | 97 | 100 | 77 | 1.3 |
| 9071 | 121 | 101 | 105 | 104 | 105 | 108 | 108 | 108 | 110 | 106 | 107 | 76 | 1.4 |
| AC 2001 | 121 | 100 | 103 | 108 | 105 | 105 | 107 | 108 | 102 | 105 | 104 | 88 | 2.3 |
| B0601 | 121 | 99 | -- | 99 | -- | 102 | -- | 99 | -- | 100 | -- | 71 | 1.2 |
| CX066 | 121 | 103 | 106 | 105 | 106 | 112 | 109 | 108 | 109 | 107 | 108 | 82 | 1.3 |
| Fleming | 121 | 112 | 114 | 104 | 104 | 114 | 112 | 101 | 105 | 108 | 108 | 70 | 1.0 |
| MS0747 | 121 | 104 | 111 | 109 | 107 | 118 | 117 | 103 | 105 | 109 | 110 | 86 | 1.5 |
| OAC Bayfield | 121 | 112 | 114 | 107 | 107 | 116 | 111 | 101 | 103 | 109 | 109 | 81 | 1.5 |
| OAC Woodstock | 121 | 107 | 107 | 101 | 103 | 105 | 106 | 104 | 103 | 104 | 104 | 70 | 1.0 |
| PRO 270 | 121 | 109 | 112 | 108 | 107 | 117 | 119 | 108 | 107 | 110 | 111 | 76 | 1.1 |
| PS 50 | 121 | 104 | 105 | 101 | 102 | 106 | 107 | 103 | 102 | 103 | 104 | 82 | 1.6 |
| PS 55 | 121 | 98 | 103 | 103 | 102 | 113 | 112 | 101 | 104 | 104 | 105 | 85 | 1.2 |
| 2702R | 122 | 101 | 103 | 98 | 97 | 103 | 101 | 100 | 105 | 101 | 102 | 77 | 1.1 |
| 9063 | 122 | 105 | 102 | 105 | 106 | 103 | 104 | 106 | 101 | 105 | 104 | 73 | 1.2 |
| 90B73 | 122 | 94 | -- | 96 | -- | 102 | -- | 104 | -- | 99 | -- | 77 | 1.2 |
| DKB07-51 | 122 | 101 | 102 | 99 | 101 | 104 | 103 | 104 | 105 | 102 | 103 | 80 | 1.1 |
| Enterprise | 122 | 107 | 114 | 105 | 104 | 108 | 107 | 108 | 108 | 107 | 108 | 74 | 1.1 |
| Fiesta | 122 | 106 | -- | 102 | -- | 114 | -- | 100 | -- | 106 | -- | 70 | 1.1 |
| OAC Auburn | 122 | 107 | 107 | 110 | 108 | 112 | 106 | 105 | 103 | 109 | 106 | 81 | 1.2 |
| OAC Eclipse | 122 | 97 | 100 | 103 | 103 | 108 | 109 | 98 | 98 | 102 | 103 | 82 | 1.1 |
| OAC Embro | 122 | 88 | -- | 84 | -- | 93 | -- | 94 | -- | 90 | -- | 76 | 1.2 |
| Turbo | 122 | 108 | 108 | 104 | 104 | 112 | 109 | 105 | 107 | 107 | 107 | 75 | 1.4 |
| RR Robust | 123 | 94 | 95 | 91 | 94 | 95 | 97 | 94 | 94 | 93 | 95 | 84 | 1.3 |
| Stine 0280 | 123 | 106 | 108 | 98 | 99 | 107 | 109 | 101 | 102 | 103 | 104 | 86 | 1.6 |
| Zephyr | 123 | 99 | 106 | 98 | 99 | 109 | 108 | 104 | 106 | 103 | 105 | 81 | 2.1 |
| Average yield (T/ha) | | 3.05 | 2.85 | 3.46 | 3.47 | 3.51 | 3.45 | 3.27 | 3.48 | 3.32 | 3.31 | | |
| Average yield (bu/ac) | | 46.4 | 43.3 | 52.6 | 52.8 | 53.4 | 52.5 | 49.7 | 52.9 | 50.5 | 50.3 | | |

Testing areas: Table 3

| | | | |
|------------|------|------|------|
| Brussels | 1998 | 1999 | 2000 |
| Elora | 1998 | 1999 | 2000 |
| Ottawa | 1998 | 1999 | 2000 |
| Winchester | 1998 | 1999 | 2000 |

TABLE 4. AGRONOMIC DATA 2700-2900 HEAT UNIT AREAS

| Variety | Days to Mature | Yield index (%) | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|-----------------------|----------------|-----------------|---------------|---------------|----------------|----------------|---------------|---------------|-------------|-------------|-------------------|---------------------------|
| | | Exeter 2yr | St. Pauls 2yr | St. Pauls 3yr | Winchester 2yr | Winchester 3yr | Woodstock 2yr | Woodstock 3yr | Average 2yr | Average 3yr | | |
| HS 2778 | 116 | 96 | 84 | 83 | 80 | 81 | 85 | 86 | 87 | 86 | 63 | 1.4 |
| OAC Bayfield | 116 | 99 | 94 | 92 | 104 | 102 | 91 | 94 | 97 | 96 | 81 | 2.1 |
| OAC Auburn | 117 | 99 | 97 | 99 | 85 | 87 | 94 | 94 | 94 | 95 | 82 | 1.8 |
| 90B73 | 118 | 97 | 89 | -- | 95 | -- | 93 | -- | 93 | -- | 82 | 1.6 |
| Fiesta | 119 | 103 | 97 | 93 | 101 | 99 | 97 | 97 | 99 | 97 | 69 | 1.0 |
| S09-Y9 | 119 | 82 | 92 | 91 | 94 | 89 | 91 | 90 | 89 | 89 | 75 | 1.2 |
| AP1394 | 120 | 96 | 105 | 101 | 108 | 106 | 101 | 101 | 102 | 101 | 89 | 1.4 |
| OAC Oxford | 120 | 97 | 112 | 106 | 116 | 109 | 100 | 100 | 106 | 104 | 85 | 1.5 |
| 2802R | 121 | 98 | 94 | -- | 104 | -- | 97 | -- | 98 | -- | 83 | 1.5 |
| 90B93 | 121 | 89 | 89 | 88 | 91 | 92 | 94 | 92 | 90 | 90 | 79 | 1.2 |
| 91B01 | 121 | 101 | 100 | 100 | 91 | 92 | 97 | 97 | 97 | 97 | 83 | 1.7 |
| Humber | 121 | 97 | 98 | 99 | 93 | 102 | 93 | 96 | 95 | 99 | 82 | 1.5 |
| OAC Stratford | 121 | 105 | 88 | 93 | 104 | 104 | 109 | 108 | 102 | 102 | 87 | 2.5 |
| 5081 | 122 | 104 | 103 | -- | 114 | -- | 105 | -- | 106 | -- | 82 | 1.7 |
| Bounty | 122 | 100 | 101 | 96 | 102 | 102 | 96 | 95 | 99 | 98 | 80 | 1.3 |
| HS 2888 | 122 | 103 | 98 | 100 | 103 | 104 | 103 | 102 | 102 | 103 | 91 | 2.1 |
| OAC Exeter | 122 | 98 | 102 | 99 | 86 | 96 | 94 | 94 | 95 | 96 | 80 | 1.6 |
| S08-80 | 122 | 100 | 109 | 104 | 110 | 102 | 101 | 100 | 105 | 102 | 85 | 1.5 |
| S 10-F2 | 122 | 102 | 112 | 107 | 99 | 98 | 101 | 100 | 104 | 102 | 81 | 1.7 |
| Marathon | 123 | 101 | 89 | 93 | 99 | 96 | 96 | 96 | 96 | 96 | 86 | 2.5 |
| PRO 286 | 123 | 101 | 108 | 107 | 104 | 105 | 102 | 105 | 104 | 105 | 80 | 1.4 |
| RCAT Bobcat | 123 | 105 | 100 | 103 | 101 | 100 | 100 | 103 | 102 | 103 | 88 | 1.6 |
| Sentry | 123 | 109 | 99 | 100 | 110 | 109 | 100 | 103 | 104 | 105 | 84 | 2.1 |
| A0868 | 124 | 98 | 104 | 105 | 103 | 103 | 105 | 103 | 102 | 103 | 80 | 1.8 |
| Arva | 124 | 103 | 102 | 102 | 103 | 103 | 104 | 101 | 103 | 103 | 84 | 1.7 |
| HS 2988 | 124 | 100 | 99 | 103 | 108 | 107 | 96 | 98 | 101 | 102 | 84 | 1.7 |
| PRO 285 | 124 | 101 | 105 | 105 | 112 | 110 | 106 | 108 | 106 | 106 | 92 | 2.3 |
| PS 73 | 124 | 107 | 113 | 111 | 113 | 110 | 112 | 107 | 111 | 109 | 89 | 1.6 |
| A1553 | 125 | 104 | 105 | 106 | 86 | 93 | 108 | 107 | 101 | 103 | 76 | 1.9 |
| B1301 | 125 | 100 | 114 | 112 | 107 | 105 | 110 | 111 | 108 | 107 | 96 | 2.1 |
| DKB13-51 | 125 | 101 | 98 | -- | 93 | -- | 100 | -- | 98 | -- | 81 | 1.2 |
| Moore | 125 | 104 | 111 | 109 | 101 | 100 | 109 | 109 | 106 | 105 | 83 | 1.9 |
| PS 66 RR | 125 | 93 | 85 | 86 | 95 | 93 | 86 | 88 | 90 | 90 | 85 | 1.8 |
| Crystal | 126 | 100 | 101 | 100 | 113 | 106 | 103 | 102 | 104 | 102 | 83 | 1.5 |
| DKB15-15 | 126 | 101 | 104 | 108 | 105 | 105 | 103 | 104 | 103 | 105 | 92 | 2.3 |
| S14-M7 | 126 | 95 | 86 | 90 | 97 | 96 | 94 | 93 | 93 | 93 | 85 | 1.7 |
| Telstar | 126 | 107 | 98 | 101 | 106 | 106 | 98 | 97 | 102 | 102 | 87 | 2.2 |
| 2901R | 127 | 95 | 102 | 102 | 90 | 92 | 101 | 101 | 97 | 98 | 86 | 1.8 |
| 5155 | 127 | 105 | 108 | 106 | 102 | 101 | 108 | 104 | 106 | 104 | 83 | 1.4 |
| 91B53 | 127 | 100 | 101 | -- | 108 | -- | 109 | -- | 104 | -- | 82 | 1.4 |
| PRO 295 | 127 | 99 | 102 | 102 | 103 | 102 | 111 | 108 | 104 | 103 | 93 | 1.9 |
| 91B64 | 128 | 99 | 100 | -- | 99 | -- | 97 | -- | 98 | -- | 83 | 1.3 |
| Crown | 128 | 103 | 101 | 104 | 106 | 107 | 103 | 107 | 103 | 105 | 90 | 1.7 |
| PRO 292 | 128 | 108 | 103 | 105 | 106 | 110 | 109 | 109 | 107 | 108 | 85 | 1.9 |
| 91B52 | 129 | 98 | 94 | 94 | 87 | 90 | 95 | 95 | 94 | 94 | 78 | 1.2 |
| PS 78 | 129 | 99 | 102 | -- | 104 | -- | 104 | -- | 102 | -- | 102 | 2.0 |
| RR Reign | 129 | 95 | 94 | 96 | 77 | 83 | 95 | 94 | 91 | 92 | 88 | 2.0 |
| Average yield (T/ha) | | 3.48 | 3.28 | 3.62 | 2.98 | 3.23 | 3.67 | 3.31 | 3.35 | 3.40 | | |
| Average yield (bu/ac) | | 52.9 | 49.9 | 55.0 | 45.3 | 49.1 | 55.8 | 50.3 | 50.9 | 51.7 | | |

Testing areas: Table 4

| | | | |
|------------|------|------|------|
| Exeter | -- | 1999 | 2000 |
| St. Pauls | 1998 | 1999 | 2000 |
| Winchester | 1998 | 1999 | 2000 |
| Woodstock | 1998 | 1999 | 2000 |

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 | | | | | | |
| | | Dutton *98&00 | Inwood 2yr | Clay 3yr Average | Ridgetown 2yr | Talbotville 2yr | Loam 3yr Average | 3yr | 3yr | 3yr | | |
| ADV 0990F | 115 | -- | 85 | -- | -- | 90 | -- | 102 | -- | -- | 80 | 1.4 |
| 9163 | 118 | 100 | 89 | 93 | 96 | 106 | 105 | 96 | 96 | 101 | 85 | 1.8 |
| PRO 292 | 118 | -- | 93 | -- | -- | 100 | -- | 108 | -- | -- | 77 | 1.6 |
| HS 3078 | 119 | 101 | 99 | 97 | 99 | 100 | 94 | 96 | 98 | 96 | 77 | 1.8 |
| HS 2909 | 119 | -- | 85 | -- | -- | 81 | -- | 95 | -- | -- | 83 | 1.5 |
| OAC Bright | 119 | 98 | 97 | 102 | 100 | 95 | 94 | 101 | 103 | 98 | 83 | 1.8 |
| S18-11 | 119 | 95 | 91 | 94 | 94 | 91 | 95 | 97 | 97 | 97 | 77 | 1.5 |
| S19-90 | 119 | 98 | 92 | 93 | 95 | 102 | 100 | 101 | 99 | 99 | 81 | 1.0 |
| 92B05 | 120 | 98 | 88 | 92 | 95 | 99 | 98 | 92 | 92 | 95 | 78 | 1.5 |
| Sapphire | 120 | 106 | 100 | 97 | 102 | 98 | 98 | 100 | 101 | 99 | 78 | 1.5 |
| Stine 2500 | 120 | 100 | 94 | 94 | 97 | 105 | 108 | 99 | 101 | 105 | 78 | 1.3 |
| Westag 97 | 120 | 104 | 106 | 108 | 106 | 97 | 100 | 104 | 104 | 102 | 74 | 1.6 |
| Crusher** | 121 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HS 3168 | 121 | 93 | 98 | 99 | 97 | 87 | 90 | 92 | 95 | 92 | 84 | 1.5 |
| PS 84 SCN | 121 | 98 | 99 | 99 | 98 | 95 | 91 | 103 | 100 | 96 | 74 | 1.4 |
| S19-T9 | 121 | 103 | 100 | 98 | 100 | 104 | 104 | 102 | 103 | 104 | 76 | 1.3 |
| S20-F8 | 121 | 107 | 100 | 100 | 103 | 108 | 109 | 105 | 104 | 106 | 81 | 1.4 |
| Tornado | 121 | 97 | 97 | 97 | 97 | 97 | 99 | 100 | 99 | 99 | 76 | 1.2 |
| 200 | 122 | 102 | 100 | 102 | 102 | 103 | 105 | 101 | 103 | 104 | 75 | 1.2 |
| 92B25 | 122 | -- | 102 | -- | -- | 107 | -- | 112 | -- | -- | 82 | 2.3 |
| A2069 | 122 | 104 | 96 | 99 | 102 | 109 | 110 | 100 | 99 | 105 | 72 | 1.3 |
| A2161 | 122 | 104 | 99 | 96 | 99 | 103 | 100 | 104 | 104 | 102 | 84 | 1.6 |
| AG1901 | 122 | 95 | 94 | 96 | 95 | 95 | 94 | 108 | 105 | 99 | 94 | 1.8 |
| Bailey | 122 | 94 | 98 | 94 | 94 | 94 | 96 | 94 | 96 | 96 | 77 | 1.5 |
| CK-01 | 122 | 98 | 96 | 98 | 98 | 103 | 102 | 102 | 104 | 103 | 76 | 1.1 |
| DKB20-10 | 122 | 96 | 104 | 101 | 98 | 95 | 98 | 98 | 98 | 98 | 77 | 1.3 |
| DKB20-84 | 122 | 104 | 100 | 101 | 103 | 106 | 104 | 107 | 102 | 103 | 78 | 1.1 |
| Ivory | 122 | 99 | 95 | 97 | 98 | 105 | 108 | 106 | 108 | 108 | 75 | 1.3 |
| OAC Glencoe | 122 | 96 | 100 | 108 | 102 | 102 | 106 | 112 | 110 | 108 | 95 | 1.9 |
| PS 86 RR | 122 | 94 | 95 | 97 | 95 | 97 | 97 | 96 | 97 | 97 | 82 | 1.5 |
| PS 83 | 122 | 93 | 91 | 95 | 94 | 93 | 91 | 100 | 99 | 95 | 87 | 1.8 |
| S20-Z5 | 122 | -- | 98 | -- | -- | 95 | -- | 92 | -- | -- | 78 | 1.3 |
| AG2101 | 123 | 99 | 99 | 100 | 100 | 94 | 97 | 96 | 97 | 97 | 82 | 1.3 |
| CX232 | 123 | 107 | 99 | 100 | 103 | 107 | 104 | 106 | 104 | 104 | 76 | 1.3 |
| DKB22-80 | 123 | -- | 103 | -- | -- | 105 | -- | 110 | -- | -- | 98 | 2.0 |
| RCAT Legacy | 123 | 94 | 105 | 106 | 100 | 98 | 96 | 95 | 97 | 97 | 68 | 1.4 |
| RR Renown | 123 | 96 | 100 | 102 | 99 | 95 | 93 | 99 | 101 | 97 | 85 | 1.5 |
| RS2297C | 124 | 99 | 102 | 98 | 98 | 99 | 101 | 97 | 96 | 99 | 81 | 1.4 |
| S23-Q3 | 124 | 93 | 94 | 95 | 94 | 89 | 90 | 101 | 98 | 94 | 86 | 1.5 |
| 3102R | 125 | -- | 104 | -- | -- | 99 | -- | 104 | -- | -- | 80 | 1.4 |
| J-251 | 125 | 108 | 101 | 101 | 104 | 104 | 105 | 104 | 105 | 105 | 76 | 1.3 |
| Kenwood 94 | 125 | 95 | 106 | 105 | 101 | 90 | 93 | 86 | 90 | 92 | 85 | 2.3 |
| PRO 315 | 125 | 101 | 111 | 109 | 105 | 101 | 96 | 103 | 100 | 98 | 83 | 1.5 |
| S24-12 | 125 | 102 | 102 | 103 | 103 | 110 | 108 | 99 | 98 | 104 | 82 | 1.3 |
| 92B35 | 126 | -- | 104 | -- | -- | 78 | -- | 93 | -- | -- | 86 | 2.2 |
| 92B61 | 126 | 103 | 111 | 110 | 107 | 105 | 104 | 107 | 103 | 104 | 85 | 2.1 |
| CX235c | 126 | 100 | 107 | 110 | 105 | 103 | 102 | 100 | 100 | 101 | 84 | 1.7 |
| HS3109 | 126 | -- | 83 | -- | -- | 75 | -- | 87 | -- | -- | 78 | 1.4 |
| 2000 | 127 | 98 | 99 | 102 | 101 | 98 | 103 | 90 | 92 | 98 | 88 | 2.6 |
| DKB23-51 | 127 | -- | 105 | -- | -- | 91 | -- | 102 | -- | -- | 80 | 1.7 |
| RS2595 | 127 | 109 | 109 | 105 | 107 | 111 | 109 | 102 | 102 | 106 | 83 | 1.6 |
| Alex | 128 | 103 | 104 | 104 | 103 | 104 | 101 | 98 | 100 | 100 | 89 | 2.3 |
| Stine 2686 | 128 | 106 | 110 | 103 | 104 | 105 | 107 | 100 | 101 | 104 | 79 | 1.2 |
| 5261 | 129 | -- | 108 | -- | -- | 96 | -- | 107 | -- | -- | 83 | 1.4 |
| Average yield (T/ha) | | 4.37 | 2.99 | 3.34 | 3.75 | 4.20 | 4.30 | 3.69 | 3.94 | 4.11 | | |
| Average yield (bu/ac) | | 66.5 | 45.5 | 50.8 | 57.0 | 63.9 | 65.4 | 56.1 | 59.9 | 62.5 | | |

**Crusher - refer to 2000 variety report for information. Data unavailable this season.

Testing areas: Table 5

| | | | |
|-------------|------|------|------|
| *Dutton | 1998 | -- | 2000 |
| Inwood | 1998 | 1999 | 2000 |
| Ridgetown | 1998 | 1999 | 2000 |
| Talbotville | 1998 | 1999 | 2000 |

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 | Woodslee | | Clay | Chatham | Malden | Loam | Avg. | | | |
| 2yr | 3yr | 2yr | 3yr | Avg. | 2yr | 3yr | 1yr | Avg. | | | | |
| S19-90 | 113 | 99 | 94 | 91 | 91 | 93 | 104 | 100 | 100 | 100 | 74 | 1.3 |
| Stine 2500 | 113 | 100 | 94 | 97 | 101 | 98 | 111 | 107 | 106 | 107 | 73 | 1.4 |
| CX232 | 116 | 101 | 100 | 97 | 95 | 98 | 104 | 104 | 106 | 105 | 71 | 1.4 |
| IA1008 | 116 | 105 | -- | 89 | -- | -- | 104 | -- | 109 | -- | 79 | 1.7 |
| RCAT Legacy | 116 | 102 | 103 | 102 | N/A | -- | 92 | 96 | 100 | 97 | 64 | 2.1 |
| 9234 | 117 | 92 | 91 | 92 | 93 | 92 | 97 | 94 | 89 | 92 | 76 | 2.0 |
| J-251 | 117 | 104 | 105 | 108 | 104 | 104 | 110 | 108 | 105 | 107 | 73 | 1.4 |
| Kenwood 94 | 117 | 105 | 103 | 100 | 104 | 104 | 94 | 94 | 96 | 95 | 81 | 2.7 |
| S24-12 | 117 | 101 | 97 | 97 | 100 | 99 | 98 | 98 | 100 | 98 | 74 | 1.5 |
| S24-L2 | 117 | 98 | 99 | 102 | 103 | 101 | 105 | 103 | 99 | 102 | 78 | 1.2 |
| Stratus | 117 | 99 | 100 | 91 | 95 | 97 | 95 | 99 | 102 | 100 | 82 | 2.0 |
| 92B51 | 118 | 100 | 95 | 95 | 91 | 93 | 95 | 94 | 97 | 95 | 77 | 1.3 |
| 92B61 | 118 | 104 | 105 | 105 | 106 | 106 | 96 | 98 | 95 | 97 | 81 | 2.4 |
| Wizard | 118 | 106 | 99 | 104 | 104 | 102 | 96 | 96 | 103 | 98 | 79 | 1.5 |
| 92B35 | 119 | 97 | 97 | 97 | 97 | 97 | 97 | 95 | 102 | 97 | 80 | 1.8 |
| 92B71 | 119 | 92 | 95 | 94 | 93 | 94 | 95 | 96 | 96 | 96 | 77 | 1.3 |
| CX235c | 119 | 96 | 99 | 99 | 101 | 100 | 105 | 101 | 100 | 101 | 78 | 1.8 |
| S24-K4 | 119 | 97 | -- | 98 | -- | -- | 103 | -- | 101 | -- | 79 | 2.1 |
| Starburst | 119 | 97 | 98 | 103 | 103 | 100 | 96 | 97 | 98 | 97 | 77 | 2.0 |
| A2553 | 120 | 108 | 106 | 113 | 106 | 106 | 110 | 107 | 112 | 108 | 72 | 1.4 |
| RCAT Staples | 120 | 100 | 105 | 104 | 108 | 107 | 94 | 99 | 102 | 100 | 87 | 2.1 |
| RR Renwick | 120 | 97 | 99 | 98 | 97 | 98 | 101 | 101 | 103 | 102 | 82 | 1.6 |
| 92B91 | 121 | 107 | 104 | 99 | 97 | 100 | 102 | 105 | 110 | 106 | 90 | 2.4 |
| AV2261 | 121 | 107 | 107 | 107 | 109 | 108 | 108 | 108 | 100 | 106 | 78 | 1.6 |
| DKB26-51 | 121 | 94 | -- | 96 | -- | -- | 92 | -- | 95 | -- | 82 | 1.5 |
| Nemecys 26R | 121 | 98 | 102 | 96 | 93 | 97 | 98 | 97 | 92 | 96 | 74 | 1.5 |
| RCAT Columbus | 121 | 105 | 104 | 100 | 100 | 102 | 98 | 96 | 96 | 96 | 82 | 1.8 |
| 3201R | 122 | 95 | 96 | 98 | 99 | 97 | 100 | 103 | 96 | 101 | 88 | 2.5 |
| 5261 | 122 | 101 | 103 | 101 | 100 | 102 | 109 | 109 | 109 | 109 | 79 | 1.5 |
| 9305 | 122 | 98 | 103 | 104 | 106 | 104 | 95 | 94 | 92 | 94 | 81 | 2.0 |
| AG2703 | 122 | 96 | -- | 97 | -- | -- | 95 | -- | 91 | -- | 83 | 1.3 |
| Coatsworth | 122 | 103 | 104 | 101 | 103 | 103 | 95 | 96 | 101 | 98 | 80 | 2.2 |
| DKB26-52 | 122 | 94 | -- | 100 | -- | -- | 100 | -- | 96 | -- | 88 | 2.3 |
| S29-C9 | 122 | 96 | 97 | 106 | 105 | 101 | 103 | 105 | 99 | 104 | 93 | 2.2 |
| S28-V8 | 123 | 92 | 95 | 99 | 96 | 96 | 97 | 96 | 96 | 96 | 86 | 1.4 |
| Average yield (T/ha) | | 3.16 | 3.42 | 3.84 | 3.93 | 3.67 | 4.30 | 4.52 | 4.92 | 4.62 | | |
| Average yield (bu/ac) | | 48.1 | 52.0 | 58.4 | 59.8 | 55.8 | 65.4 | 68.7 | 74.8 | 70.3 | | |

Testing areas: Table 6

| | | | |
|----------|------|------|------|
| Tilbury | 1998 | 1999 | 2000 |
| Woodslee | 1998 | 1999 | 2000 |
| Chatham | 1998 | 1999 | 2000 |
| Malden | -- | -- | 2000 |

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

| <i>Variety</i> | <i>Avg. of 7 tests (1998-2000)</i> | | <i>**Avg. of 5 tests (1998-2000)</i> | | <i>Avg. of 5 tests (1999-2000)</i> | |
|---|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | <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> |
| PS 84 SCN | 112 | 125 | 110 | 137 | 112 | 125 |
| RS2297C | 112 | 123 | 110 | 142 | 112 | 117 |
| S18-11 | 112 | 128 | 110 | 136 | 112 | 127 |
| Bailey | 113 | 131 | 110 | 137 | 113 | 134 |
| IA1008 | -- | -- | -- | -- | 113 | 130 |
| A2069 | 114 | 130 | 112 | 140 | 114 | 126 |
| 9234 | -- | -- | 113 | 135 | -- | -- |
| CX235c | 116 | 132 | 114 | 142 | 116 | 133 |
| DKB26-52 | -- | -- | -- | -- | 117 | 130 |
| Nemecys 26R | -- | -- | -- | -- | 118 | 133 |
| 92B91 | -- | -- | 118 | 158 | -- | -- |
| *Susceptible Yield Index is Susceptible Yield | | 100% 2.74 T/ha or 40.7 bu/ac | | 100% 2.72 T/ha or 40.4 bu/ac | | 100% 2.49 T/ha or 36.9 bu/ac |

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

** Average of 5 tests is included to give a valid comparison of all varieties in those locations.

Test locations had moderate to high SCN infestations.

Notes: Variety 92B35 is SCN resistant, no data available

Resistance source is PI88788 for all varieties except 9234 which has Peking resistance.

Test Locations & Soil Types - 2000 Trials

| <i>Location</i> | <i>Heat Unit Rating</i> | <i>Soil Type</i> | <i>Row Width (cm)</i> | <i>Seeding Rate (plant/ac)</i> | <i>Co-operator</i> |
|---|-------------------------|------------------|-----------------------|--------------------------------|-----------------------|
| Malden | 3400 | clay loam | 60 | 240,000 | Maury Hutchins |
| Chatham | 3300 | clay loam | 60 | 160,000 | Stan Wonnacott |
| Woodslee | 3400 | clay | 60 | 240,000 | Research Centre, AAFC |
| Tilbury | 3350 | clay | 60 | 240,000 | Grant Guy |
| Dutton | 3100 | clay | 43 | 200,000 | Erie Ridge Farms Ltd. |
| Inwood | 3050 | clay | 43 | 200,000 | Jeff Lassaline |
| Ridgetown | 3250 | clay loam | 43 | 160,000 | RCAT |
| Talbotville | 2900 | clay loam | 35 | 200,000 | Tom Oegema |
| Exeter | 2800 | clay loam | 35 | 200,000 | Bill Essery |
| Woodstock | 2700 | clay loam | 35 | 200,000 | Bob Hart |
| St. Paul's | 2750 | clay loam | 35 | 200,000 | Bernard Murray |
| Winchester | 2825 | clay loam | 35 | 200,000 | KCAT |
| Elora | 2550 | silt loam | 35 | 200,000 | OAC |
| Brussels | 2600 | clay loam | 35 | 200,000 | Scott Cardiff |
| Ottawa | 2650 | clay loam | 40 | 200,000 | Research Centre, AAFC |
| New Locations - Starting in 2000 | | | | | |
| Renfrew | 2500 | clay | 40 | 200,000 | Larry Raeburn |
| New Liskeard | 2400 | clay | 35 | 200,000 | N.L. Research |
| Dundalk | 2400 | clay | 35 | 200,000 | OAC |

SOYBEAN VARIETY DISTRIBUTORS

If you do not know who your local supplier is for a soybean variety listed in Table 1, then contact the distributor for information.

Advantage Seed Growers & Processors Inc.

Box 29, 323 Havelock St., Lucknow, ON, N0G 2H0

Tel: 1-800-651-7333 Fax: 519-528-3518

E-mail: advantag@hurontel.on.ca

Agrocentre Belcan Inc.

180 Mt. Ste. Marie, Ste. Marthe QC, J0P 1W0

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

Cooperative Federee de Quebec

9001, boul. de l'Acadie, Suite 200, Montreal QC, H4N 3H7

Tel: 514-858-2667 Fax: 514-385-5142

DEKALB

301 Richmond St Chatham ON, N7M 1P5

Tel: 519-352-5310 Fax: 519-352-6259

Dow Agro Sciences Canada Inc.

P.O. Box 490, Princeton, ON N0J 1B0

Tel: 519-458-4336 Fax: 519-458-4330

Ferguson Seeds

RR#1, Essex ON, N8M 2X5

Tel: 519-776-5779 Fax: 519-776-9319

First Line Seeds Ltd.

Research Park Centre, Suite 307, 150 Research Lane

Guelph, ON N1G 4T2

Tel: 1-800-361-2326 Fax: 519-821-9755

email: firstline@soybeans.com

GROWMARK Inc.

P.O. Box 634, Mississauga ON, L5L 2C1

Tel: 905-890-4266 Fax: 905-890-4316

Heartland Seeds

RR#5, Wallaceburg, ON, N8A 4L2

Tel: 1-800-265-5242 Fax: 519-627-2990

Hendrick Seeds

RR # 1, Inkerman, ON K0E 1J0

Tel: 613-774-3469 Fax: 613-774-0346

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

Mapleseed

Box 1068, Lindsay ON, K9V 5N4

Tel: 1-800-461-7645 Fax: 705-324-1803

Miehls Seeds Inc.

County Rd. 46, Woodslee, ON N0R 1V0

Tel: 519-723-4476 Fax: 519-723-2146

Mike Snobelen Farms Ltd.

Box 29, 323 Havelock St., Lucknow, ON N0G 2H0

Tel: 519-528-2092 Tel: 519-528-3542

E-mail: soybean@hurontel.on.ca

Mycogen Canada Inc.

305 Consortium Court, London ON, N6E 2S8

Tel: 1-800-265-5289

Pioneer Hi-Bred Ltd.

Box 730, Chatham ON, N7M 5L1

Tel: 800-265-9435 Fax: 519-436-6753

Pride Seeds

P.O. Box 1088, Chatham ON, N7M 5L6

Tel: 519-354-3210 Fax: 519-354-8155

PRO Seeds of Canada

RR#6, Woodstock ON, N4S 7W1

Tel: 1-888-537-5157 Fax: 519-537-5169

E-mail: proseeds@oxford.net

Renk Seed Company of Canada

P.O. Box 1226, 148 Wellington St. W.

Chatham, ON, N0P 1A0

Tel: 519-351-5101; 800-449-3990 Fax: 519-354-8603

SeCan Association

RR # 5, Ingersoll, ON N5L 3J8

Tel: 866-797-7874 Fax: 519-423-6933

Semences Laguerre Inc.

999 Boulevard Lamontagne, Saint-Casimir QC, G0A 3L0

Tel: 819-339-2474 Fax: 819-339-2474

Semican Atlantic Inc.

353 Ranglo, Plessisville QC, G6L 2Y2

Tel: 819-362-8823 Fax: 819-362-3385

Shanks Seeds Ltd.

RR # 1, Wheatley, ON N0P 2P0

Tel: 519-825-4070 Fax: 519-825-4849

Southwest Seeds Inc.

RR#1, Ridgetown, ON

Tel: 519-674-0054 / 519-674-3876

Syngenta Seeds Inc.

RR#1, Arva, ON N0M 1C0

Tel: 1-800-711-5511 Fax: 519-461-0405