

2006 REPORT

Ontario Soybean Variety Trials

for 2003-2005

by the
Ontario Oil & Protein
Seed Crop Committee

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CROP COMMITTEE

Research conducted and reported by

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This organization is made up of representatives of Agriculture & Agri-Food Canada, the University of Guelph, the Ontario Seed Growers Association, the Canadian Seed Trade Association, the Ontario Soybean Growers, OMAF and the Oilseed Crushers. Tests are conducted each year by AAFC research stations at Ottawa and Harrow and the University of Guelph and its regional Colleges at Kemptville and Ridgeway. Information in this brochure as well as additional variety information can be found on the web at www.oopsc.org.

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INTERPRETATION OF TABLE 1

Notes:

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

1a,1c,1k, 6: Resistance genes for Phytophthora root rot in Ontario which provide resistance to the pathogen. Rps 1a does not provide protection to most races of the pathogen in Ontario

SCN: Resistant to some races of Soybean Cyst Nematode (SCN) in Ontario.

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

Herbicide Reaction

RR: Roundup Ready™ (Trademark of Monsanto Company)

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

Varieties have not been evaluated for metribuzin tolerance by OOPSCC. For further information contact seed distributor. The following variety has been reported to OOPSCC as being metribuzin sensitive: 90B73.

Heat Unit Grouping

Using the same crop heat unit system as for corn, each variety is given a heat unit rating based on the relative maturity of that variety in the most recent 2 years of test results. The varieties are placed into groups of 50 heat units. The varieties are sorted in early to late order within the 50 heat unit group. In choosing a variety you should select those varieties approximately equal to or less than the heat units available on your farm.

Hilum Colour

Each soybean seed has a hilum which is the point where it was attached to the pod. Varieties differ in hilum colour and can be either Yellow (Y), Imperfect Yellow (IY), Gray (GR), Buff (BF), Brown (BR), Black (BL), or Imperfect Black (IBL). Hilum colour may also be Light (L). Yellow hilum soybeans are usually the only type accepted for the export market. In certain years discolouration of the hilum of IY varieties can occur and as a result the soybeans may not be acceptable for export markets.

Seeds per Kilogram

This is an estimate of the relative number of seeds of a particular variety in a kilogram of seed based on a 1-2 years 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 these sites. The relative ranking of varieties for plant loss may differ in fields that have other races present. Ratings for some varieties are not available due to a lack of disease pressure in 2004.

Disease Testing Information

Phytophthora root rot testing is carried out on clay soils infested with common races of Phytophthora at Woodslee and Ottawa. 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 soyinfo@oopsc.org.

White Mold variety ratings are available for several heat unit areas on the web at www.oopsc.org.

Protein & Oil Index

Protein Index (%) and Oil (%) is obtainable on the web at www.oopsc.org.

Table 1. Soybean Variety Performance List and Descriptions

Updated December 16, 2005

| Variety | Notes | Herbicide Reaction | Heat Unit Grouping | Hilum Colour | Seeds per Kg | Phytophthora Root Rot % Plant loss** | Seed Supply | Distributor |
|-----------------|-------|--------------------|--------------------|--------------|--------------|--------------------------------------|-------------|---------------------------|
| DrakoRR | | RR | 2350 | BR | 5800 | na | | La Coop fédérée |
| 90A01 | | | 2400 | IY | 6500 | na | | Pioneer Hi-Bred Ltd. |
| PS 26 RR | | RR | | BR | 6600 | na | | Pride Seeds |
| PS 24 | | | 2450 | IY | 4800 | na | | Pride Seeds |
| S00-Z1 | | | | BR | 5900 | 11* | | Syngenta Seeds Canada Inc |
| 90A07 | | | | Y | 5800 | 6 | | Pioneer Hi-Bred Ltd. |
| OlexRR | | RR | | BR | 5100 | 5 | | La Coop fédérée |
| Carina | | | 2500 | IY | 5900 | 8 | | La Coop fédérée |
| PRO 25-53 | | | | IY | 4900 | 14 | | PRO Seeds of Canada |
| PS 36 | | | | Y | 5100 | 9 | | Pride Seeds |
| 25-04R | | RR | | BR | 5400 | na | | DEKALB |
| 5B008RR | 1k | RR | | BR | 7100 | 2* | | Dow AgroSciences Canada L |
| CM26001 | | | 2550 | Y | 7100 | na | | C&M Seeds |
| DKB00-99 | 1a | RR | | BR | 5800 | 7 | | DEKALB |
| Lotus | HP | | | IY | 4900 | 25 | | PRO Seeds of Canada |
| Phoenix | | | | IY | 4900 | 6* | | La Coop fédérée |
| RR Regency | | RR | | GR | 5400 | 9 | | Hyland Seeds |
| 25-03R | 1k | RR | | BL | 5400 | 9 | | DEKALB |
| 90M20 | 1k | RR | | IY | 5900 | na | | Pioneer Hi-Bred Ltd. |
| PS 35 RR | | RR | | BR | 5000 | 9* | | Pride Seeds |
| AC Glengarry | | | 2600 | IY | 5200 | 3 | LS | SeCan |
| Banco RR | | RR | | BR | 5700 | 5 | | Advantage Seed Grow&Proc |
| Joliette RR | | RR | | BL | 5500 | na | LS | Seed Link Inc. |
| PRO 26-53 | | | | IY | 4800 | na | | PRO Seeds of Canada |
| PS 46 RR | | RR | | BL | 4800 | 4 | | Pride Seeds |
| 90B11 | | RR | | BR | 6300 | 15 | | Pioneer Hi-Bred Ltd. |
| 90M60 | 1c | RR | | BR | 5000 | na | | Pioneer Hi-Bred Ltd. |
| 26-02R | 1k | RR | | BL | 5400 | 7 | | DEKALB |
| ADV Windfall | | | 2650 | IY | 4700 | 4 | | Advantage Seed Grow&Proc |
| LynxRR | | RR | | BR | 5900 | 6 | | La Coop fédérée |
| OAC Bayfield | | | | BR | 5100 | 6 | | SeCan |
| OAC Champion | | | | IY | 4900 | 8 | | PRO Seeds of Canada |
| PRO 2690R | | RR | | BR | 4800 | 11* | | PRO Seeds of Canada |
| S03-W4 | 1c | | | IY | 5100 | 4 | | Syngenta Seeds Canada Inc |
| Venus | HP | | | IY | 4600 | 9 | | PRO Seeds of Canada |
| Auriga | | | 2700 | Y | 5300 | 5 | | La Coop fédérée |
| Casino | | | | Y | 6600 | 4 | | Hyland Seeds |
| CF0703 | 1c | | | IY | 4700 | 7* | | Country Farm Seeds Ltd. |
| Delta | 1c | | | IY | 5000 | 5 | | Advantage Seed Grow&Proc |
| DKB06-52 | 1k | RR | | BL | 5400 | 9 | | DEKALB |
| OAC Raptor | | RR | | BR | 5300 | 6 | | SeCan |
| OAC Rockwood | | RR | | BR | 5500 | 8 | | Secan / Belcan Seeds |
| PRO 275 | | | | IY | 5100 | 4 | | PRO Seeds of Canada |
| RR React | | RR | | BR | 6500 | 7* | | Hyland Seeds |
| RR Rodger | | RR | | BF | 5400 | 4* | | Hyland Seeds |
| 2702R | | RR | | BL | 5500 | 10 | | DEKALB |
| 5B060RR | 1k | RR | | Y | 6500 | 7 | | Dow AgroSciences Canada L |
| 90B73 | | RR | | BR | 5300 | 8 | | Pioneer Hi-Bred Ltd. |
| 9071 | 1c | | | Y | 6300 | 10 | | Pioneer Hi-Bred Ltd. |
| CF0804 | 1k | | | Y | 5900 | na | | Country Farm Seeds Ltd. |
| ADV Rave RR | | RR | 2750 | BL | 5900 | 10 | | Advantage Seed Grow&Proc |
| ADV Renegade RR | | RR | | BR | 5200 | 10 | | Advantage Seed Grow&Proc |
| Dundas | | | | LBR | 5600 | 9 | | SeCan |
| Enterprise | | | | IY | 5500 | 8 | | Hyland Seeds |
| Jutra | | | | IY | 4900 | 9 | | PRO Seeds of Canada |
| Kaprio RR | | RR | | BR | 4300 | 6* | | PRO Seeds of Canada |
| Monarch | | | | BR | 5100 | 8 | | PRO Seeds of Canada |
| OAC Wallace | | | | BR | 5200 | 5 | | SeCan |

**Phytophthora % Plant Loss na=less than 2 years of data available, * only 2 years of data available.

Notes:

HP - High Protein
SCN - SCN resistant

Herbicide Reaction

RR - Roundup Ready
STS - Sulfonylurea Tolerant

Seed Supply

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 |
|----------------|--------|--------------------|--------------------|--------------|--------------|--------------------------------------|-------------|---------------------------|
| PRO 2795R | | RR | 2750 | BR | 5600 | na | | PRO Seeds of Canada |
| PS 56 RR | | RR | | BR | 6300 | 8 | | Pride Seeds |
| PS 59 | | | | BR | 5400 | 9 | | Pride Seeds |
| RR Razor | | RR | | BR | 5300 | 4 | | Hyland Seeds |
| SL-0225 | HP | | | BL | 5200 | 9* | LS | Advantage Seed Grow&Proc |
| Turbo | | | | IY | 5000 | 7 | | Mike Snobelen Farms Ltd |
| 27-51R | SCN 1k | RR | | GR | 5500 | na | | DEKALB |
| ADV Rascal RR | | RR | | BL | 5000 | 12* | | Advantage Seed Grow&Proc |
| OctaneRR | | RR | | BL | 5600 | 6* | | La Coop fédérée |
| 27-06R | 1k | RR | | GR | 5700 | 3* | | DEKALB |
| Buster | | | 2800 | BR | 5300 | 2* | | Agrocentre Belcan |
| CF0903R | | RR | | BL | 6400 | na | | Country Farm Seeds Ltd. |
| HL35 | HP | | | BL | 4800 | 14 | | Hyland Seeds |
| Majesta | | | | IY | 4900 | 6 | | Prograin |
| OAC Prodigy | | | | IY | 4800 | 9 | | PRO Seeds of Canada |
| PRO 2790R | | RR | | BR | 5300 | 4 | | PRO Seeds of Canada |
| PRO 28-53 | | | | IY | 5100 | 5 | | PRO Seeds of Canada |
| S 08-80 | 1c | | | IY | 5000 | 5 | | Syngenta Seeds Canada Inc |
| S12-C2 | | | | IY | 4900 | 13 | | Syngenta Seeds Canada Inc |
| 2802R | 1k | RR | | BL | 5900 | 4 | | DEKALB |
| 90M91 | 1k | RR | | BR | 5600 | na | | Pioneer Hi-Bred Ltd. |
| 91M10 | | | | Y | 5400 | 9* | | Pioneer Hi-Bred Ltd. |
| ADV108 | | | | Y | 4400 | na | | Advantage Seed Grow&Proc |
| RR Ricochet | | RR | | BL | 5700 | 6 | | Hyland Seeds |
| ADV Runaway RR | | RR | 2850 | BL | 6500 | 10 | | Advantage Seed Grow&Proc |
| Athos | | | | Y | 5500 | na | | La Coop fédérée |
| Belmont | | | | IY | 5300 | 6 | | Hyland Seeds |
| Cadence | | | | Y | 5900 | 6 | | Hyland Seeds |
| Colby | | | | Y | 4800 | 7 | | Hyland Seeds |
| Hudson | | | | BR | 6200 | 6 | | Hyland Seeds |
| National | | | | BL | 5200 | 14 | | C&M Seeds |
| PS 73 | | | | BF | 5100 | 6 | | Pride Seeds |
| PS 76 RR | | RR | | BR | 5000 | 19 | | Pride Seeds |
| RCAT Corbett | | | | BR | 4800 | 5 | | SeCan |
| RCAT MatRix | | RR | | BL | 5200 | 7 | | SeCan |
| S12-A5 | 1c | | | BR | 4900 | 3 | | Syngenta Seeds Canada Inc |
| S14-P6 | 1c | | | Y | -- | na | | Syngenta Seeds Canada Inc |
| 28-51R | SCN 1k | RR | | BL | 6500 | na | | DEKALB |
| 28-52R | 1k | RR | | BL | 5800 | 5* | | DEKALB |
| 91M51 | 1k | RR | | BF | 6300 | 3* | | Pioneer Hi-Bred Ltd. |
| Crystal | | | 2900 | Y | 5700 | 4 | | Hyland Seeds |
| PRO 2895R | 1a | RR | | Y | 5600 | 12 | | PRO Seeds of Canada |
| PRO 2995R | | RR | | BR | 5300 | 7 | | PRO Seeds of Canada |
| 29-02R | 1k | RR | | BL | 6100 | 4 | | DEKALB |
| 5140RR | 1k | RR | | BR | 5700 | 7 | | Dow AgroSciences Canada L |
| 91B33 | 1k | RR | | BR | 6100 | 4 | | Pioneer Hi-Bred Ltd. |
| AG1901 | 1k | RR | 2950 | BL | 6900 | 2 | | DEKALB |
| Crown | | | | Y | 5800 | 10 | | Hyland Seeds |
| PRO 3090R | | RR | | IBL | 6200 | 6 | | PRO Seeds of Canada |
| PRO 30-02 | | | | IY | 4900 | 11 | | PRO Seeds of Canada |
| RCAT Wildcat | | | | BL | 5500 | 5 | | Advantage Seed Grow&Proc |
| RiotRR | | RR | | BR | 6200 | 13* | | La Coop fédérée |
| RS1498 | | | | BR | 6000 | 8 | | Country Farm Seeds Ltd. |
| S18-Y4 | SCN 1c | | | Y | 5800 | 5* | | Syngenta Seeds Canada Inc |
| 91B64 | 1c | RR | | BR | 6400 | 5 | | Pioneer Hi-Bred Ltd. |
| 91M60 | 1c | RR | | BL | 6600 | na | | Pioneer Hi-Bred Ltd. |
| RR Rochester | | RR | | BR | 6500 | 3 | | Hyland Seeds |

**Phytophthora % Plant Loss na-less than 2 years of data available, * only 2 years of data available.

Notes:

HP - High Protein
SCN - SCN resistant

Herbicide Reaction

RR - Roundup Ready
STS - Sulfonylurea Tolerant

Seed Supply

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 |
|----------------|--------|--------------------|--------------------|--------------|--------------|--------------------------------------|-------------|---------------------------|
| Inwoodvinton | HP | | 3000 | Y | 5000 | 5* | | Inwood Seed & Grain Ltd |
| ISG 2500 | | | | IY | 6500 | 5* | | Inwood Seed & Grain Ltd |
| OAC Huron | | | | Y | 4900 | 4 | | Huron Commodities Inc. |
| RCAT Pinehurst | | | | Y | 5800 | 2 | | SeCan |
| RS199RR | 1k | RR | | BL | 6800 | 2 | | Country Farm Seeds Ltd. |
| S 19-90 | 1c | | | GR | -- | na | | Syngenta Seeds Canada Inc |
| SG1911NRR | SCN | RR | | IBL | 6000 | 6 | | Pride Seeds |
| Sherwin | SCN | | | Y | 5300 | 5 | | Hyland Seeds |
| S20-F8 | 1c | | | Y | -- | na | | Syngenta Seeds Canada Inc |
| 92M10 | 1c | | | Y | 6600 | 3 | | Pioneer Hi-Bred Ltd. |
| RR Respond | SCN | RR | | BL | 6700 | 4 | | Hyland Seeds |
| Claremont | | | 3050 | Y | 5100 | 3 | | Hyland Seeds |
| OAC Kent | | | | Y | 4900 | 5 | | SeCan |
| RCAT Harwich | | | | Y | 6400 | 4 | LS | SeCan |
| RS2297C | SCN 1k | | | IBL | 6000 | 3 | | Country Farm Seeds Ltd. |
| Sinclair | SCN | | | BL | 5100 | 7 | | Hyland Seeds |
| 30-06R | 1k | RR | | BL | 6300 | 6 | | DEKALB |
| Carter | | | | Y | 5700 | 5 | | Hyland Seeds |
| PRO 3095R | | RR | 3100 | Y | 6400 | 6* | | PRO Seeds of Canada |
| RCAT MiRRa | | RR | | IY | 5500 | 1 | | SeCan |
| RCAT 22R1 | | RR | | BL | 5900 | 6 | LS | SeCan |
| RR Krypton | SCN 1c | RR | | BL | 6500 | 3* | | Maizex Seeds Inc |
| RR Oxygen | | RR | | BL | 6900 | 7 | | Maizex Seeds Inc |
| RR Rodney | | RR | | BL | 6800 | 2 | | Hyland Seeds |
| S25-D3 | 1c | | | Y | -- | na | | Syngenta Seeds Canada Inc |
| 5211RR | 1k | RR | | BL | 6900 | 5 | | Dow AgroSciences Canada L |
| 92B38 | | RR | | BR | 6200 | 8 | | Pioneer Hi-Bred Ltd. |
| 92M50 | SCN 1k | RR | | BF | 6300 | 2* | | Pioneer Hi-Bred Ltd. |
| Clancy | | | | Y | 5300 | 19 | | Hyland Seeds |
| 92M71 | 1k | RR | | BL | 6000 | 4* | | Pioneer Hi-Bred Ltd. |
| ADV Rescuer RR | 1k | RR | 3150 | BL | 5700 | 2* | LS | Advantage Seed Grow&Proc |
| Adam | HP | | | IY | 4800 | na | | Inwood Seed & Grain Ltd |
| PRO 30-05 | | | | Y | 5000 | 5 | | PRO Seeds of Canada |
| PS 95 | | | | BL | 6700 | 6 | | Pride Seeds |
| RCAT Dover | | | | BL | 6700 | 2 | LS | SeCan |
| RR Renwick | | RR | | BL | 6000 | 5 | | Hyland Seeds |
| RS2595 | 1k | | | BL | 6100 | 2 | | Country Farm Seeds Ltd. |
| 30-07R | SCN 1k | RR | | IBL | 6500 | 3 | | DEKALB |
| 31-04R | SCN 1c | RR | | BL | 6700 | 4 | | DEKALB |
| PRO 3195R | | RR | | BR | 6200 | 6 | | PRO Seeds of Canada |
| 92M70 | SCN | RR | | BF | 7100 | 7* | | Pioneer Hi-Bred Ltd. |
| ADV Rocket RR | | RR | 3200 | BR | 6500 | 5 | | Advantage Seed Grow&Proc |
| CF2603RN | SCN 1c | RR | | BL | 6200 | 5 | | Country Farm Seeds Ltd. |
| ISG2686 | | | | Y | 6300 | 8* | | Inwood Seed & Grain Ltd |
| ISG2800F | HP | | | BL | 5100 | na | | Inwood Seed & Grain Ltd |
| RCAT Ruthven | SCN | | | Y | 6900 | 5 | | SeCan |
| 92M72 | 1k | | | BL | 5700 | 3 | | Pioneer Hi-Bred Ltd. |
| DKB26-52 | SCN 1a | RR | 3250 | IBL | 6800 | 4 | | DEKALB |
| PS 96 NRR | SCN | RR | | IBL | 6100 | 16 | | Pride Seeds |
| RR Lithium | SCN 1c | RR | | IBL | 6600 | 5* | | Maizex Seeds Inc |
| 26R | SCN 1k | RR | | BL | 6100 | 3 | | DEKALB |
| 32-03R | SCN 1c | RR | | BL | 7200 | 3 | | DEKALB |
| 5N262RR | SCN | RR | | BL | 5700 | 3* | | Dow AgroSciences Canada L |
| 92M91 | 1k | RR | | BL | 5900 | 1* | | Pioneer Hi-Bred Ltd. |
| 9305 | 1k | | | Y | 5900 | 4 | | Pioneer Hi-Bred Ltd. |
| 32-51R | SCN 1a | RR | 3300 | BL | 6800 | 11* | | DEKALB |

**Phytophthora % Plant Loss na=less than 2 years of data available, * only 2 years of data available.

Notes:

HP - High Protein
SCN - SCN resistant

Herbicide Reaction

RR - Roundup Ready
STS - Sulfonylurea Tolerant

Seed Supply

LS - Limited Supply
NA - Not Available

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. Tests were separated into conventional herbicide and glyphosate herbicide treated plots in 2003. 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 13% 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 represent performance from different soil types; data from 2-3 years of testing are provided for each location.

The 2006 publication is the first report with 3 full years of glyphosate weed management testing of glyphosate tolerant varieties.

TABLE 2.1 AGRONOMIC DATA AT 2300-2500 HEAT UNIT AREAS (RR VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|-------------|-------|-------------|---------|-------------|-------------------|---------------------------|
| | | Dundalk | | Elora | Renfrew | Average | | | |
| | | 2yr | 3yr | 2yr | 2yr* | 2yr | 3yr | | |
| DrakoRR | 106 | 97 | -- | 96 | -- | 98 | -- | 73 | 2.2 |
| PS 26 RR | 107 | 98 | -- | 85 | -- | 93 | -- | 70 | 1.4 |
| 25-04R | 113 | 103 | -- | 108 | -- | 106 | -- | 76 | 1.8 |
| RR Regency | 113 | 106 | 105 | 110 | 101 | 106 | 104 | 77 | 1.4 |
| 5B008RR | 114 | 94 | -- | 97 | -- | 95 | -- | 75 | 1.3 |
| 90B11 | 115 | 99 | 99 | 100 | 97 | 98 | 97 | 78 | 1.8 |
| OlexRR | 115 | 103 | 96 | 104 | 102 | 104 | 99 | 76 | 1.4 |
| Average yield (T/ha) | | 3.11 | 3.39 | 3.06 | 2.99 | 2.99 | 3.22 | | |
| (bu/ac) | | 46.2 | 50.4 | 45.5 | 44.5 | 44.5 | 47.9 | | |

TABLE 2.2 AGRONOMIC DATA AT 2300-2500 HEAT UNIT AREAS (CONVENTIONAL VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|-------------|-------|-------------|---------|-------------|-------------------|---------------------------|
| | | Dundalk | | Elora | Renfrew | Average | | | |
| | | 2yr | 3yr | 2yr | 2yr* | 2yr | 3yr | | |
| 90A01 | 105 | 88 | -- | 90 | -- | 88 | -- | 65 | 1.2 |
| PS 24 | 109 | 92 | -- | 89 | -- | 92 | -- | 79 | 1.6 |
| 90A07 | 112 | 98 | 99 | 101 | 90 | 97 | 96 | 75 | 1.6 |
| Lotus | 112 | 101 | 103 | 100 | 98 | 101 | 100 | 73 | 1.4 |
| Carina | 112 | 98 | 90 | 102 | 99 | 100 | 95 | 81 | 1.1 |
| AC Glengarry | 113 | 106 | 107 | 104 | 106 | 105 | 105 | 77 | 2.1 |
| PRO 25-53 | 113 | 110 | 100 | 107 | 104 | 109 | 102 | 81 | 1.9 |
| Phoenix | 114 | 107 | 102 | 107 | 104 | 109 | 103 | 70 | 1.4 |
| Average yield (T/ha) | | 3.20 | 3.27 | 3.24 | 3.23 | 3.13 | 3.28 | | |
| (bu/ac) | | 47.6 | 48.6 | 48.2 | 48.0 | 46.5 | 48.8 | | |

* Renfrew 2 yr average includes data from 2003 and 2005.

Testing areas: Table 2

| | | | |
|---------|------|------|------|
| Dundalk | 2003 | 2004 | 2005 |
| Elora | | 2004 | 2005 |
| Renfrew | 2003 | | 2005 |

TABLE 3.1 AGRONOMIC DATA AT 2500-2800 HEAT UNIT AREAS (RR VARIETY TEST)

| 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 | | |
| PS 35 RR | 111 | 89 | 94 | 95 | 96 | 94 | 97 | 97 | 97 | 94 | 96 | 92 | 1.9 |
| 90B11 | 112 | 93 | 95 | 83 | 85 | 85 | 84 | 88 | 87 | 88 | 88 | 88 | 2.1 |
| RR Regency | 112 | 98 | 98 | 98 | 99 | 93 | 98 | 96 | 96 | 96 | 98 | 91 | 1.9 |
| DKB00-99 | 112 | 100 | 98 | 101 | 93 | 96 | 84 | 108 | 104 | 101 | 96 | 97 | 2.2 |
| 90M20 | 113 | 89 | -- | 89 | -- | 98 | -- | 88 | -- | 91 | -- | 78 | 1.6 |
| 25-03R | 113 | 90 | 94 | 97 | 100 | 99 | 100 | 94 | 96 | 94 | 97 | 92 | 1.9 |
| PS 46 RR | 113 | 104 | 103 | 103 | 102 | 105 | 104 | 111 | 107 | 106 | 104 | 84 | 1.4 |
| 26-02R | 114 | 100 | 101 | 101 | 103 | 97 | 96 | 96 | 97 | 98 | 99 | 93 | 2.1 |
| OAC Rockwood | 114 | 96 | 100 | 98 | 101 | 97 | 99 | 105 | 104 | 99 | 101 | 89 | 1.7 |
| PRO 2690R | 114 | 99 | 99 | 101 | 102 | 97 | 101 | 99 | 100 | 99 | 100 | 91 | 1.8 |
| Banco RR | 114 | 99 | 101 | 96 | 101 | 92 | 98 | 96 | 99 | 96 | 100 | 94 | 2.8 |
| RR Rodger | 115 | 97 | 98 | 96 | 96 | 94 | 96 | 86 | 90 | 93 | 95 | 93 | 2.4 |
| LynxRR | 116 | 106 | 104 | 106 | 98 | 114 | 110 | 108 | 104 | 109 | 104 | 85 | 1.5 |
| 90M60 | 116 | 99 | -- | 101 | -- | 103 | -- | 102 | -- | 101 | -- | 86 | 1.4 |
| 2702R | 116 | 103 | 102 | 99 | 99 | 101 | 100 | 106 | 105 | 102 | 102 | 97 | 2.0 |
| ADV Renegade RR | 116 | 98 | 100 | 96 | 99 | 97 | 98 | 100 | 101 | 98 | 100 | 94 | 2.1 |
| OAC Raptor | 116 | 98 | 99 | 102 | 104 | 100 | 96 | 108 | 107 | 102 | 102 | 92 | 2.0 |
| PRO 2790R | 116 | 98 | 96 | 96 | 101 | 104 | 105 | 103 | 102 | 100 | 101 | 93 | 1.7 |
| RR React | 117 | 103 | 105 | 107 | 107 | 108 | 109 | 105 | 102 | 105 | 105 | 91 | 2.0 |
| PRO 2795R | 117 | 99 | -- | 105 | -- | 99 | -- | 92 | -- | 99 | -- | 101 | 2.4 |
| 5B060RR | 117 | 102 | 101 | 95 | 98 | 96 | 106 | 85 | 90 | 95 | 98 | 102 | 2.3 |
| DKB06-52 | 118 | 101 | 100 | 105 | 101 | 99 | 100 | 97 | 101 | 101 | 101 | 89 | 2.0 |
| 27-06R | 118 | 101 | -- | 99 | -- | 105 | -- | 98 | -- | 101 | -- | 88 | 1.8 |
| 90B73 | 118 | 104 | 101 | 100 | 102 | 97 | 99 | 103 | 102 | 101 | 101 | 97 | 2.2 |
| ADV Rascal RR | 119 | 106 | 105 | 105 | 104 | 102 | 100 | 101 | 102 | 104 | 103 | 86 | 2.2 |
| PS 56 RR | 119 | 104 | 103 | 107 | 106 | 103 | 103 | 112 | 108 | 107 | 105 | 98 | 1.7 |
| 27-51R | 120 | 104 | -- | 108 | -- | 107 | -- | 110 | -- | 107 | -- | 90 | 2.2 |
| RR Razor | 122 | 113 | -- | 106 | -- | 110 | -- | 108 | -- | 109 | -- | 95 | 1.7 |
| OctaneRR | 122 | 108 | 105 | 103 | 104 | 109 | 116 | 100 | 100 | 105 | 106 | 96 | 1.9 |
| Average yield (T/ha) | | 3.78 | 3.58 | 3.43 | 3.36 | 2.90 | 2.88 | 3.41 | 3.67 | 3.38 | 3.37 | | |
| (bu/ac) | | 56.2 | 53.2 | 51.0 | 50.0 | 43.1 | 42.8 | 50.7 | 54.6 | 50.3 | 50.1 | | |

TABLE 3.2 AGRONOMIC DATA AT 2500-2800 HEAT UNIT AREAS (CONVENTIONAL VARIETY TEST)

| 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 | | |
| 90A07 | 107 | 82 | 85 | 87 | 90 | 84 | 88 | 86 | 85 | 85 | 87 | 74 | 1.5 |
| PS 36 | 111 | 90 | 91 | 95 | 93 | 98 | 99 | 97 | 94 | 95 | 94 | 93 | 1.9 |
| ADV Windfall | 113 | 93 | 98 | 99 | 104 | 97 | 99 | 106 | 105 | 99 | 102 | 83 | 1.4 |
| PRO 26-53 | 113 | 103 | -- | 106 | -- | 102 | -- | 98 | -- | 102 | -- | 81 | 1.7 |
| Auriga | 113 | 97 | 101 | 105 | 104 | 103 | 106 | 98 | 100 | 101 | 102 | 85 | 1.6 |
| Venus | 114 | 93 | 94 | 94 | 96 | 95 | 95 | 102 | 100 | 96 | 96 | 92 | 1.6 |
| S03-W4 | 116 | 103 | 103 | 98 | 100 | 106 | 106 | 110 | 108 | 104 | 104 | 89 | 1.3 |
| OAC Champion | 116 | 102 | 102 | 95 | 98 | 99 | 97 | 103 | 102 | 99 | 100 | 90 | 1.8 |
| Dundas | 117 | 102 | 104 | 104 | 112 | 95 | 97 | 98 | 101 | 100 | 104 | 87 | 1.7 |
| OAC Bayfield | 117 | 100 | 102 | 101 | 100 | 105 | 101 | 103 | 101 | 102 | 101 | 86 | 1.9 |
| CF0804 | 118 | 105 | -- | 95 | -- | 102 | -- | 97 | -- | 99 | -- | 93 | 1.9 |
| Casino | 118 | 101 | 99 | 96 | 96 | 98 | 100 | 91 | 94 | 96 | 97 | 84 | 1.9 |
| CF0703 | 118 | 103 | 106 | 101 | 104 | 105 | 105 | 105 | 103 | 103 | 104 | 95 | 2.0 |
| Enterprise | 118 | 100 | 101 | 103 | 101 | 98 | 98 | 98 | 96 | 100 | 99 | 84 | 1.6 |
| PRO 275 | 118 | 111 | 106 | 104 | 93 | 96 | 92 | 105 | 103 | 105 | 99 | 83 | 1.5 |
| Turbo | 118 | 105 | 106 | 100 | 103 | 99 | 98 | 95 | 98 | 100 | 101 | 84 | 2.0 |
| 9071 | 118 | 90 | 93 | 95 | 97 | 99 | 102 | 84 | 88 | 92 | 95 | 84 | 2.0 |
| Delta | 118 | 105 | 102 | 105 | 102 | 102 | 101 | 104 | 105 | 104 | 102 | 87 | 1.6 |
| OAC Wallace | 119 | 102 | 103 | 106 | 109 | 111 | 113 | 116 | 116 | 108 | 110 | 88 | 1.5 |
| Jutra | 120 | 104 | -- | 110 | -- | 100 | -- | 101 | -- | 104 | -- | 87 | 1.4 |
| Monarch | 120 | 108 | 106 | 103 | 101 | 107 | 103 | 103 | 101 | 105 | 103 | 95 | 1.6 |
| Average yield (T/ha) | | 3.84 | 3.66 | 3.60 | 3.46 | 2.78 | 3.08 | 3.15 | 3.46 | 3.34 | 3.42 | | |
| (bu/ac) | | 57.1 | 54.4 | 53.5 | 51.4 | 41.3 | 45.8 | 46.8 | 51.4 | 49.7 | 50.9 | | |

Testing areas: Table 3

| | | | |
|------------|------|------|------|
| Brussels | 2003 | 2004 | 2005 |
| Elora | 2003 | 2004 | 2005 |
| Ottawa | 2003 | 2004 | 2005 |
| Winchester | 2003 | 2004 | 2005 |

TABLE 4.1 AGRONOMIC DATA AT 2700-2900 HEAT UNIT AREAS (RR VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|------|-----------|------|------------|------|-----------|------|---------|------|-------------------|---------------------------|
| | | Exeter | | St. Pauls | | Winchester | | Woodstock | | Average | | | |
| | | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | | |
| ADV Runaway RR | 113 | 95 | 97 | 90 | 91 | 86 | 83 | 90 | 92 | 90 | 91 | 86 | 2.1 |
| 90B73 | 116 | 91 | 92 | 94 | 93 | 107 | 102 | 89 | 88 | 95 | 94 | 94 | 1.9 |
| 2802R | 117 | 95 | 96 | 99 | 99 | 91 | 89 | 100 | 100 | 96 | 96 | 92 | 1.7 |
| ADV Rascal RR | 117 | 95 | -- | 92 | -- | 97 | -- | 92 | -- | 94 | -- | 81 | 1.9 |
| PRO 2995R | 119 | 103 | 101 | 102 | 102 | 110 | 103 | 101 | 101 | 104 | 102 | 102 | 1.8 |
| 91B33 | 119 | 97 | 97 | 96 | 97 | 97 | 96 | 96 | 97 | 96 | 97 | 79 | 1.5 |
| RCAT MatRix | 119 | 107 | 108 | 110 | 108 | 120 | 115 | 108 | 106 | 110 | 109 | 93 | 2.1 |
| RR Razor | 119 | 100 | 100 | 102 | 102 | 101 | 101 | 103 | 103 | 102 | 102 | 89 | 1.7 |
| RR Ricochet | 119 | 102 | 101 | 101 | 100 | 95 | 100 | 102 | 101 | 100 | 100 | 84 | 1.4 |
| 29-02R | 120 | 103 | 101 | 108 | 107 | 105 | 105 | 107 | 103 | 106 | 104 | 90 | 1.6 |
| PRO 2895R | 121 | 105 | 103 | 100 | 97 | 96 | 96 | 99 | 97 | 100 | 99 | 92 | 1.9 |
| Kaprio RR | 121 | 98 | -- | 98 | -- | 105 | -- | 100 | -- | 100 | -- | 88 | 1.3 |
| 91M51 | 121 | 96 | -- | 93 | -- | 95 | -- | 94 | -- | 94 | -- | 83 | 1.2 |
| PS 76 RR | 122 | 102 | 99 | 107 | 103 | 102 | 98 | 105 | 103 | 104 | 101 | 96 | 1.8 |
| 5140RR | 122 | 103 | 102 | 98 | 99 | 94 | 102 | 101 | 102 | 99 | 101 | 83 | 1.4 |
| 91B64 | 122 | 101 | 100 | 99 | 99 | 104 | 101 | 102 | 99 | 102 | 100 | 93 | 1.6 |
| 28-52R | 122 | 100 | -- | 108 | -- | 98 | -- | 101 | -- | 102 | -- | 92 | 1.9 |
| ADV Rave RR | 123 | 101 | 102 | 101 | 98 | 101 | 105 | 105 | 104 | 102 | 102 | 88 | 1.7 |
| RiotRR | 124 | 105 | -- | 101 | -- | 94 | -- | 102 | -- | 101 | -- | 99 | 1.5 |
| RR Rochester | 125 | 100 | 101 | 103 | 103 | 105 | 105 | 101 | 102 | 102 | 102 | 95 | 2.0 |
| PRO 3090R | 127 | 100 | 99 | 100 | 102 | 98 | 98 | 102 | 101 | 100 | 100 | 96 | 2.1 |
| Average yield (T/ha) | | 3.79 | 3.55 | 4.32 | 4.23 | 3.33 | 3.55 | 4.15 | 3.97 | 3.90 | 3.83 | | |
| (bu/ac) | | 56.4 | 52.8 | 64.2 | 62.9 | 49.5 | 52.8 | 61.7 | 59.0 | 58.0 | 57.0 | | |

TABLE 4.2 AGRONOMIC DATA AT 2700-2900 HEAT UNIT AREAS (CONVENTIONAL VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|------|-----------|------|------------|------|-----------|------|---------|------|-------------------|---------------------------|
| | | Exeter | | St. Pauls | | Winchester | | Woodstock | | Average | | | |
| | | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | 2yr | 3yr | | |
| OAC Bayfield | 115 | 99 | 99 | 95 | 95 | 108 | 100 | 94 | 92 | 99 | 97 | 84 | 1.8 |
| Dundas | 115 | 97 | 98 | 99 | 99 | 90 | 90 | 98 | 98 | 96 | 97 | 83 | 1.5 |
| Buster | 116 | 95 | -- | 93 | -- | 90 | -- | 92 | -- | 93 | -- | 83 | 1.5 |
| S 08-80 | 117 | 94 | 96 | 99 | 99 | 97 | 97 | 98 | 97 | 97 | 97 | 88 | 1.4 |
| OAC Wallace | 117 | 99 | 99 | 99 | 98 | 115 | 106 | 100 | 98 | 102 | 100 | 86 | 1.6 |
| Colby | 118 | 111 | 111 | 106 | 107 | 97 | 102 | 108 | 108 | 106 | 107 | 84 | 1.4 |
| Jutra | 118 | 96 | 96 | 98 | 98 | 101 | 99 | 96 | 95 | 98 | 97 | 86 | 1.4 |
| RCAT Corbett | 119 | 101 | 101 | 107 | 104 | 101 | 102 | 100 | 103 | 102 | 102 | 87 | 1.4 |
| PS 59 | 119 | 101 | 101 | 102 | 101 | 95 | 96 | 103 | 100 | 101 | 100 | 91 | 1.5 |
| HL35 | 119 | 96 | 98 | 93 | 96 | 92 | 94 | 96 | 95 | 94 | 96 | 80 | 1.2 |
| Hudson | 119 | 105 | 107 | 108 | 107 | 95 | 92 | 104 | 103 | 104 | 102 | 81 | 1.6 |
| Majesta | 120 | 94 | 94 | 99 | 98 | 107 | 105 | 100 | 102 | 99 | 99 | 99 | 1.7 |
| 91M10 | 120 | 98 | -- | 104 | -- | 98 | -- | 100 | -- | 100 | -- | 82 | 1.3 |
| S12-C2 | 120 | 101 | 104 | 93 | 95 | 111 | 110 | 94 | 96 | 99 | 101 | 80 | 1.5 |
| PRO 28-53 | 120 | 95 | 95 | 94 | 94 | 93 | 93 | 95 | 96 | 94 | 95 | 100 | 1.7 |
| National | 121 | 102 | 100 | 103 | 101 | 89 | 95 | 97 | 98 | 99 | 99 | 88 | 1.6 |
| Cadence | 121 | 96 | 97 | 103 | 103 | 95 | 97 | 104 | 104 | 100 | 101 | 89 | 1.8 |
| SL-0225 | 121 | 100 | -- | 98 | -- | 98 | -- | 100 | -- | 99 | -- | 83 | 1.5 |
| S12-A5 | 121 | 105 | 105 | 107 | 106 | 113 | 110 | 105 | 103 | 107 | 106 | 84 | 1.5 |
| PS 73 | 122 | 107 | 102 | 103 | 101 | 105 | 101 | 104 | 102 | 105 | 101 | 94 | 1.5 |
| Crystal | 123 | 93 | 94 | 91 | 92 | 100 | 100 | 90 | 92 | 93 | 94 | 86 | 1.4 |
| OAC Prodigy | 123 | 102 | 103 | 98 | 100 | 113 | 108 | 97 | 97 | 102 | 102 | 86 | 1.3 |
| RS1498 | 124 | 106 | 104 | 107 | 104 | 109 | 110 | 105 | 105 | 107 | 106 | 88 | 1.6 |
| PRO 30-02 | 125 | 101 | 99 | 103 | 101 | 95 | 98 | 105 | 104 | 101 | 100 | 87 | 1.5 |
| RCAT Wildcat | 126 | 102 | 99 | 103 | 103 | 94 | 97 | 104 | 106 | 101 | 101 | 88 | 1.5 |
| Belmont | 126 | 105 | 99 | 105 | 102 | 107 | 104 | 108 | 105 | 106 | 102 | 97 | 1.4 |
| Crown | 127 | 97 | 98 | 92 | 96 | 92 | 94 | 102 | 102 | 96 | 97 | 94 | 1.7 |
| Average yield (T/ha) | | 4.21 | 3.81 | 4.31 | 4.25 | 3.04 | 3.50 | 3.98 | 3.81 | 3.89 | 3.84 | | |
| (bu/ac) | | 62.6 | 56.7 | 64.1 | 63.2 | 45.2 | 52.0 | 59.2 | 56.7 | 57.8 | 57.1 | | |

Testing areas: Table 4

| | | | |
|------------|------|------|------|
| Exeter | 2003 | 2004 | 2005 |
| St. Pauls | 2003 | 2004 | 2005 |
| Winchester | 2003 | 2004 | 2005 |
| Woodstock | 2003 | 2004 | 2005 |

TABLE 5.1 AGRONOMIC DATA AT 2900-3300 HEAT UNIT AREAS (RR VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|------------|-------------|-------------|--------------|---------------|---------------|-----------------|-----------------|--------------|-------------------|---------------------------|
| | | Clay | | | | | Loam | | | | | | |
| | | Inwood 2yr | Inwood 3yr | Palmyra 2yr | Palmyra 3yr | Clay Average | Ridgetown 2yr | Ridgetown 3yr | Talbotville 2yr | Talbotville 3yr | Loam Average | | |
| 29-02R | 111 | 95 | -- | 88 | -- | -- | 99 | -- | 88 | -- | -- | 73 | 1.1 |
| PRO 3090R | 114 | 101 | 101 | 101 | 97 | 99 | 93 | 94 | 93 | 98 | 95 | 78 | 1.5 |
| SG1911NRR | 115 | 96 | 96 | 92 | 93 | 94 | 93 | 95 | 89 | 89 | 92 | 84 | 1.8 |
| AG1901 | 116 | 99 | 101 | 99 | 101 | 101 | 92 | 92 | 90 | 94 | 93 | 86 | 1.7 |
| 30-07R | 116 | 109 | 106 | 100 | 98 | 102 | 110 | 108 | 108 | 102 | 105 | 74 | 1.1 |
| RCAT MiRRa | 116 | 101 | 102 | 106 | 103 | 103 | 102 | 103 | 98 | 102 | 103 | 87 | 1.6 |
| RR Respond | 116 | 101 | 99 | 103 | 100 | 99 | 100 | 99 | 97 | 97 | 98 | 79 | 1.3 |
| RS199RR | 116 | 92 | 95 | 104 | 104 | 100 | 99 | 100 | 96 | 99 | 100 | 75 | 1.4 |
| 30-06R | 118 | 101 | 102 | 101 | 104 | 103 | 107 | 106 | 106 | 104 | 105 | 78 | 1.8 |
| 5211RR | 119 | 101 | 101 | 103 | 102 | 101 | 99 | 102 | 100 | 101 | 101 | 78 | 1.7 |
| RR Rodney | 119 | 100 | 98 | 102 | 100 | 99 | 103 | 101 | 105 | 106 | 103 | 79 | 1.1 |
| RR Krypton | 119 | 102 | -- | 102 | -- | -- | 92 | -- | 102 | -- | -- | 79 | 1.4 |
| 31-04R | 119 | 100 | 97 | 96 | 97 | 97 | 102 | 99 | 103 | 102 | 100 | 79 | 1.1 |
| 92B38 | 119 | 103 | 102 | 100 | 101 | 102 | 101 | 102 | 102 | 104 | 103 | 80 | 1.1 |
| RR Oxygen | 120 | 101 | 101 | 98 | 100 | 101 | 102 | 101 | 106 | 105 | 103 | 77 | 1.3 |
| ADV Rescuer RI | 120 | 96 | -- | 101 | -- | -- | 102 | -- | 104 | -- | -- | 81 | 1.0 |
| RCAT 22R1 | 120 | 101 | 99 | 105 | 101 | 100 | 98 | 99 | 99 | 98 | 98 | 76 | 1.0 |
| PRO 3095R | 121 | 93 | -- | 101 | -- | -- | 100 | -- | 107 | -- | -- | 65 | 1.0 |
| CF2603RN | 121 | 107 | -- | 103 | -- | -- | 105 | -- | 109 | -- | -- | 83 | 1.2 |
| Average yield (T/ha) | | 3.10 | 2.78 | 2.99 | 2.96 | 2.87 | 4.24 | 4.14 | 4.09 | 3.72 | 3.93 | | |
| (bu/ac) | | 46.1 | 41.3 | 44.5 | 44.0 | 42.7 | 63.0 | 61.6 | 60.8 | 55.3 | 58.4 | | |

TABLE 5.2 AGRONOMIC DATA AT 2900-3300 HEAT UNIT AREAS (CONVENTIONAL VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat |
|----------------------|----------------|-----------------|------------|-------------|-------------|--------------|---------------|---------------|-----------------|-----------------|--------------|-------------------|---------------------------|
| | | Clay | | | | | Loam | | | | | | |
| | | Inwood 2yr | Inwood 3yr | Palmyra 2yr | Palmyra 3yr | Clay Average | Ridgetown 2yr | Ridgetown 3yr | Talbotville 2yr | Talbotville 3yr | Loam Average | | |
| Crown | 113 | 89 | 90 | 96 | 96 | 93 | 95 | 96 | 91 | 94 | 95 | 75 | 1.4 |
| OAC Huron | 114 | 108 | 108 | 98 | 101 | 104 | 98 | 98 | 105 | 96 | 97 | 74 | 1.6 |
| Sherwin | 115 | 106 | 105 | 110 | 105 | 105 | 111 | 106 | 102 | 101 | 104 | 73 | 1.5 |
| Claremont | 115 | 93 | 95 | 94 | 97 | 96 | 99 | 103 | 101 | 103 | 103 | 72 | 1.1 |
| Inwoodvinton | 116 | 95 | -- | 95 | -- | -- | 90 | -- | 88 | -- | -- | 81 | 1.6 |
| RCAT Harwich | 116 | 96 | 99 | 100 | 103 | 101 | 95 | 96 | 100 | 100 | 98 | 87 | 1.6 |
| RS2297C | 117 | 99 | 99 | 99 | 96 | 98 | 100 | 98 | 97 | 94 | 96 | 75 | 1.5 |
| RCAT Pinehurst | 117 | 108 | 108 | 105 | 106 | 107 | 106 | 107 | 103 | 106 | 107 | 81 | 1.7 |
| OAC Kent | 117 | 102 | 101 | 98 | 100 | 100 | 100 | 100 | 102 | 101 | 101 | 81 | 1.8 |
| 92M10 | 118 | 105 | 100 | 105 | 102 | 101 | 104 | 99 | 101 | 99 | 99 | 81 | 1.2 |
| PRO 30-05 | 118 | 97 | 98 | 98 | 100 | 99 | 104 | 103 | 100 | 100 | 101 | 80 | 1.2 |
| RCAT Dover | 119 | 106 | 102 | 103 | 102 | 102 | 101 | 100 | 107 | 106 | 103 | 83 | 1.3 |
| Sinclair | 119 | 96 | 98 | 99 | 96 | 97 | 94 | 93 | 101 | 101 | 97 | 85 | 1.5 |
| RS2595 | 122 | 101 | 97 | 100 | 96 | 97 | 104 | 100 | 102 | 100 | 100 | 83 | 1.3 |
| Average yield (T/ha) | | 3.42 | 3.11 | 3.22 | 3.14 | 3.13 | 4.53 | 4.36 | 4.20 | 3.80 | 4.08 | | |
| (bu/ac) | | 50.9 | 46.2 | 47.9 | 46.7 | 46.5 | 67.4 | 64.8 | 62.5 | 56.5 | 60.7 | | |

Testing areas: Table 5

| | | | |
|-------------|------|------|------|
| Inwood | 2003 | 2004 | 2005 |
| Palmyra | 2003 | 2004 | 2005 |
| Ridgetown | 2003 | 2004 | 2005 |
| Talbotville | 2003 | 2004 | 2005 |

TABLE 6.1 AGRONOMIC DATA AT 3300-3500 HEAT UNIT AREAS (RR VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat | |
|----------------------|----------------|-----------------|------------|--------------|--------------|--------------|-------------|-------------|------------|------------|-------------------|---------------------------|--------------|
| | | Clay | | | | | Loam | | | | | | |
| | | Merlin 2yr | Merlin 3yr | Woodslee 2yr | Woodslee 3yr | Clay Average | Chatham 2yr | Chatham 3yr | Malden 2yr | Malden 3yr | | | Loam Average |
| 92B38 | 117 | 101 | 101 | 102 | 103 | 102 | 106 | 108 | 105 | 105 | 106 | 86 | 1.2 |
| RCAT 22R1 | 117 | 100 | 102 | 96 | 99 | 100 | 98 | 103 | 95 | 94 | 98 | 81 | 1.0 |
| 92M71 | 118 | 103 | -- | 102 | -- | -- | 106 | -- | 100 | -- | -- | 81 | 1.1 |
| CF2603RN | 118 | 105 | 106 | 99 | 102 | 103 | 107 | 108 | 108 | 105 | 106 | 86 | 1.1 |
| PRO 3195R | 118 | 97 | 100 | 97 | 102 | 101 | 98 | 101 | 112 | 108 | 104 | 85 | 1.2 |
| 92M50 | 119 | 103 | -- | 106 | -- | -- | 97 | -- | 102 | -- | -- | 90 | 1.2 |
| 26R | 119 | 101 | 101 | 95 | 97 | 98 | 88 | 88 | 98 | 98 | 94 | 79 | 1.1 |
| RR Renwick | 120 | 107 | 113 | 107 | 107 | 110 | 103 | 105 | 98 | 101 | 103 | 84 | 1.5 |
| 32-03R | 120 | 85 | 86 | 97 | 94 | 91 | 93 | 97 | 100 | 98 | 97 | 92 | 1.0 |
| ADV Rocket RR | 120 | 104 | 102 | 103 | 101 | 101 | 102 | 105 | 95 | 99 | 102 | 88 | 1.4 |
| DKB26-52 | 121 | 96 | 99 | 97 | 98 | 98 | 95 | 99 | 93 | 96 | 97 | 92 | 2.2 |
| 92M70 | 121 | 100 | -- | 104 | -- | -- | 105 | -- | 96 | -- | -- | 86 | 1.7 |
| PS 96 NRR | 121 | 99 | 97 | 97 | 99 | 98 | 91 | 93 | 103 | 102 | 98 | 84 | 1.2 |
| 92M91 | 122 | 107 | -- | 106 | -- | -- | 112 | -- | 107 | -- | -- | 86 | 1.2 |
| 5N262RR | 122 | 100 | -- | 97 | -- | -- | 103 | -- | 97 | -- | -- | 80 | 1.2 |
| RR Lithium | 123 | 92 | 95 | 96 | 98 | 96 | 95 | 95 | 92 | 93 | 94 | 88 | 1.1 |
| Average yield (T/ha) | | 3.33 | 2.85 | 4.02 | 3.62 | 3.24 | 3.69 | 3.46 | 4.22 | 4.13 | 3.79 | | |
| (bu/ac) | | 49.5 | 42.4 | 59.8 | 53.8 | 48.2 | 54.9 | 51.4 | 62.8 | 61.4 | 56.4 | | |

TABLE 6.2 AGRONOMIC DATA AT 3300-3500 HEAT UNIT AREAS (CONVENTIONAL VARIETY TEST)

| Variety | Days to Mature | Yield index (%) | | | | | | | | | Plant Height (cm) | Lodging 1=Standing 5=flat | |
|----------------------|----------------|-----------------|------------|--------------|--------------|--------------|-------------|-------------|------------|------------|-------------------|---------------------------|--------------|
| | | Clay | | | | | Loam | | | | | | |
| | | Merlin 2yr | Merlin 3yr | Woodslee 2yr | Woodslee 3yr | Clay Average | Chatham 2yr | Chatham 3yr | Malden 2yr | Malden 3yr | | | Loam Average |
| Carter | 115 | 91 | 93 | 96 | 96 | 95 | 103 | 102 | 96 | 99 | 100 | 70 | 1.5 |
| RCAT Harwich | 115 | 96 | 101 | 97 | 101 | 101 | 102 | 104 | 99 | 99 | 101 | 88 | 1.6 |
| OAC Kent | 116 | 100 | 99 | 104 | 104 | 102 | 99 | 100 | 101 | 102 | 101 | 81 | 1.9 |
| PRO 30-05 | 116 | 103 | -- | 95 | -- | -- | 101 | -- | 100 | -- | -- | 79 | 1.5 |
| 92M10 | 117 | 102 | 98 | 102 | 97 | 97 | 97 | 99 | 97 | 97 | 98 | 83 | 1.3 |
| RCAT Dover | 117 | 105 | 103 | 103 | 101 | 102 | 104 | 103 | 106 | 102 | 102 | 83 | 1.3 |
| Clancy | 117 | 99 | 100 | 98 | 99 | 99 | 102 | 101 | 100 | 102 | 101 | 78 | 1.6 |
| PS 95 | 120 | 104 | 108 | 102 | 103 | 105 | 100 | 101 | 100 | 99 | 99 | 83 | 1.9 |
| 92M72 | 121 | 106 | 106 | 106 | 105 | 105 | 106 | 105 | 107 | 106 | 106 | 83 | 1.1 |
| 9305 | 122 | 96 | 93 | 105 | 101 | 97 | 95 | 93 | 97 | 93 | 93 | 82 | 1.2 |
| RCAT Ruthven | 122 | 97 | 100 | 93 | 93 | 96 | 93 | 93 | 97 | 102 | 98 | 86 | 2.6 |
| Average yield (T/ha) | | 3.51 | 3.03 | 4.19 | 3.76 | 3.40 | 3.82 | 3.66 | 4.67 | 4.42 | 4.04 | | |
| (bu/ac) | | 52.2 | 45.1 | 62.3 | 55.9 | 50.6 | 56.8 | 54.4 | 69.4 | 65.7 | 60.1 | | |

Testing areas: Table 6

| | | | |
|----------|------|------|------|
| Merlin | 2003 | 2004 | 2005 |
| Woodslee | 2003 | 2004 | 2005 |
| Chatham | 2003 | 2004 | 2005 |
| Malden | 2003 | 2004 | 2005 |

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

| <i>Variety</i> | Average of 6 Tests (2003-2005) | | Average of 4 Tests (2004-2005) | |
|-------------------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|
| | <i>Days to Maturity</i> | <i>Yield Index (%)</i> | <i>Days to Maturity</i> | <i>Yield Index (%)</i> |
| Sherwin | 113 | 134 | 113 | 131 |
| SG1911NRR* | 114 | 112 | 113 | 109 |
| 30-07R* | -- | -- | 114 | 123 |
| RR Respond* | 115 | 124 | 115 | 120 |
| RS2297C | 116 | 124 | 115 | 124 |
| Sinclair | 117 | 125 | 116 | 118 |
| 31-04R* | 119 | 124 | 118 | 123 |
| 26R* | 121 | 116 | 119 | 115 |
| CF2603RN* | 120 | 131 | 119 | 123 |
| 92M50* | -- | -- | 119 | 122 |
| DKB26-52* | 122 | 123 | 121 | 117 |
| 32-03R* | 124 | 115 | 122 | 107 |
| 92M70* | -- | -- | 122 | 123 |
| 5N262RR* | -- | -- | 122 | 122 |
| PS 96 NRR* | 125 | 123 | 123 | 122 |
| RCAT Ruthven | 125 | 127 | 123 | 127 |
| **Susceptible Yield Index is: | | 100% | 100% | |
| Susceptible Yield: | | 2.87 T/ha or 42.6 bu/ac | 3.30 T/ha or 49.0 bu/ac | |

* Roundup Ready (RR) varieties, tested under a RR management system in one test location in 2003 and 2004 and two in 2005.

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

Test locations had low to moderate SCN infestations (1,000 to >4,000 eggs/100g of soil).

Resistance source is PI88788 for all varieties.

Test Locations & Soil Types - 2005 Trials

| Location | Table | Heat Unit Rating | Soil Type | Row Width (cm) | Seeding Rate (plant/ac) | Co-operator |
|-----------------|--------------|-------------------------|------------------|-----------------------|--------------------------------|----------------------------------|
| Dundalk | 2 | 2400 | clay | 35 | 200,000 | Ed Jack |
| Renfrew | 2 | 2500 | clay | 20 | 200,000 | Larry Reaburn |
| Elora | 2 & 3 | 2550 | silt loam | 35 | 200,000 | OAC |
| Ottawa | 3 | 2650 | clay loam | 40 | 200,000 | Research Centre, AAFC |
| Brussels | 3 | 2650 | loam | 38 | 200,000 | Peel Farms |
| 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 | 2900 | clay loam | 38 | 200,000 | Bill Essery |
| 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 |
| Palmyra | 5 | 3100 | clay | 43 | 200,000 | Chris Quinton |
| Merlin | 6 | 3350 | clay | 43 | 200,000 | Grant Guy |
| Woodslee | 6 | 3400 | clay | 45 | 200,000 | Research Centre, AAFC, Harrow |
| Chatham | 6 | 3300 | clay loam | 43 | 160,000 | Stan Wonnacott |
| Malden | 6 | 3400 | clay loam | 45 | 185,000 | 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.

40168 Londesborough Rd., Box 122
Londesborough, ON N0M 2H0
Tel: 519-523-9693, Fax: 519-523-4820
Email: wanda@advantageseeds.com
www.advantageseeds.com

Agrocentre Belcan

180 Mt. Ste. Marie, Ste. Marthe, QC J0P 1W0
Tel: 1-800-363-5146, Fax: 450-459-4216
www.agrocentrebclcan.com

C&M Seeds

6180 5th Line Minto, RR #3
Palmerston, ON N0G 2P0
Tel: 519-343-2126 Fax: 519-343-3792
www.redwheat.com

Country Farm Seeds Ltd.

P.O. Box 790, 18814 Communication Road
Blenheim, ON N0P 1A0
Tel: 1-800-449-3990; Fax 519-676-9633
www.countryfarmseeds.com

DEKALB Monsanto Canada Inc.

150 Research Lane, Suite 307
Guelph, ON N1G 4T2
Tel: 1-800-667-4944, Fax: 519-823-9733
www.monsanto.ca/products/dekalb

Dow AgroSciences Canada Inc.

Mycogen Brand Seeds
P.O. Box 1060, St. Mary's, ON N4X 1B7
Tel: 1-800-668-4939 Fax 519-349-2688
www.dowagro.com/ca

Huron Commodities Inc.

79 Wellington St., Clinton, ON N0M 1L0
Tel: 519-482-8400 Fax: 519-482-8383
www.huron.com

Hyland Seeds, Div. of Thompsons Ltd.

P.O. Box 130, 2 Hyland Dr., Blenheim ON N0P 1A0
Tel: 519-676-8146 Fax: 519-676-5674
www.hylandseeds.com

Inwood Seed & Grain Ltd.

Box 130, 6505 James St., Inwood ON N0N 1K0
Tel: 519-844-2426 Fax 519-844-2424

La Coop Fédérée

2405 de la Province, Longueuil QC J4G 1G3
Tel: 450-670-2231 Fax: 450-670-3900
Email: centre-distribution@sympatico.ca
www.coopfed.qc.ca

Maizex Seeds Inc

4488 Mint Line, RR #2, Tilbury ON N0P 2L0
Tel 877-682-1720 Fax 519-682-2144
www.maizex.com

Pioneer Hi-Bred Ltd.

Box 730, 7399 Queen's Line, Chatham ON N7M 5L1
Tel: 1-800-265-9435, Fax: 519-380-2014
www.Pioneer.com/Canada

Pride Seeds

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

Prograin

145 Bas Rivière Nord, St-Césaire, QC J0L 1T0
Tel: 1-800-817-3732 Fax: 450-469-4547
www.prograin.qc.ca

PRO Seeds of Canada

RR#6, Woodstock ON N4S 7W1
Tel: 1-888-537-5157 Fax: 519-533-0773
Email: admin@proseeds.ca

SeCan

374151 Foldens Line, RR #5 Ingersoll, ON N5C 3J8
Tel: 1-866-797-7874, Fax: 519-423-6933
www.secan.com

Seed-link Inc.

P.O. Box 217, 208 St. David St., Lindsay, ON K9V 5Z4
Tel: 705-324-0544 Fax: 705-324-2550
www.seed-link.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: jenn@snobelengroup.com
www.snobelengroup.com

Syngenta Seeds Canada, Inc.

15910 Medway Road, RR #1, Arva, ON N0M 1C0
Tel: 800-756-7333 Fax: 888-717-7122
www.nkcanada.com

Go to www.oopsc.org for:

▶ 2006 Yield and Maturity Graphs from OSV report.

 Variety Information
& Performance Profile

▶ Oil and Protein information.

▶ Food Grade Variety Performance Information.

▶ 2006 Ontario Soybean Variety Report