At Corteva Agriscience™, Agriculture Division of DowDuPont, we seek to enrich the lives of those who produce and those who consume.

We are bringing together DuPont Crop Protection, DuPont Pioneer and Dow AgroSciences to create a market-shaping, standalone agriculture company with leading positions in seed technologies, crop protection and digital agriculture.

We’re dedicated to growing progress. And we’re just getting started.

Visit us at corteva.com
Here’s to farmers who never forget where they’re from.

Pioneer is proud to launch Here’s to Hometowns, where you have a chance to give back to the place you call home.

You could win $50,000 towards a community project.

To learn more, visit HERESTOHOMETOWNS.CA

For full contest details, rules and regulations, visit www.HeresToHometowns.ca
There’s more behind every seed.
products + services + support + rewards

Exclusively from your Pioneer sales representative.
Most trusted. Most growers. Most acres.

Pioneer is proud to be the leading corn seed brand in Canada – thanks to you.

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<th>HEAT UNITS</th>
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<th>ABOVE &amp; BELOW GROUND INSECT PROTECTION</th>
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NOTES
For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.
All Pioneer® brand corn products are available with DuPont™ Lumivia® insecticide seed treatment which offers excellent protection against key early season corn pests. Lumivia® is not considered a Class 12 pesticide under Ontario Regulation 63/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Poncho® 1250 + VOTiVO™ / clothianidin) which are Class 12 pesticides. For more information, talk with your Pioneer sales representative.

### GRAIN CORN

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<td>2150 HEAT UNITS</td>
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<tr>
<td>Great yield to moisture performance</td>
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<tr>
<td>• Excellent root and stalk strength</td>
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<tr>
<td>• Late flowering hybrid with fast drydown</td>
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<tr>
<td>• Needs to be grown in zone</td>
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| **P7632 AM™** |
| 2225 HEAT UNITS |
| Consistent performance |
| • Exceptional root strength |
| • Moderate stalk strength |
| • Above average drought tolerance |

| **P7958 AM™** |
| 2300 HEAT UNITS |
| Early dual-purpose hybrid |
| • Late flowering |
| • Very good root strength |
| • Good stalk strength |

| **P8034** |
| 2325 HEAT UNITS |
| New conventional product with solid agronomics |
| • Excellent root and stalk strength |
| • Very good drought tolerance |
| • Very good tolerance to NLB |

| **P8034R** |
| 2325 HEAT UNITS |
| High yield potential hybrid |
| • Above average agronomics |
| • Strong NLB tolerance |
| • Excellent root and stalk strength |

| **P8234 AM™** |
| 2400 HEAT UNITS |
| High yield potential product |
| • Above average agronomics |
| • Strong NLB tolerance |

Local Support and Advice
Your Pioneer sales representative, backed by a team of local agronomists, is ready to help you select and position the right products for your operation.
Pioneer® Brand Product
Market Segment
Technology Segment
Heat Units
CRM
Silk CRM
Physiological CRM
Stalk Strength
Silk Endurance
Ear Support
Drought Resistance
Grain Dry-down
Test Weight
Plant Height
Ear Height
Husk Cover
Mid-Season Brittle Stalk
Northern Leaf Blight (NLB)
Foliar Fungicide Response (NLB)
Gibberella Ear Rot
Grey Leaf Spot
Anthracnose Stalk Rot

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<th>Outstanding root strength</th>
<th>Very good NLB tolerance</th>
<th>Excellent drought tolerance</th>
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P9188AM™<sup>TM</sup> | 2600 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
P9188AMXT™<sup>TM</sup> | 2700 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
P9330AM™<sup>TM</sup> | 2750 | 93 | 95 | 94 | 5 | 7 | 6 | 3 | 7 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
P9404AM™<sup>TM</sup> | 2800 | 94 | 97 | 8 | 8 | 4 | 3 | 7 | 4 | 6 | 5 | 6 | 6 | LP | 6 | 4 |

Pioneer® Brand Product
Market Segment
Technology Segment
Heat Units
CRM
Silk CRM
Physiological CRM
Stalk Strength
Silk Endurance
Ear Support
Drought Resistance
Grain Dry-down
Test Weight
Plant Height
Ear Height
Husk Cover
Mid-Season Brittle Stalk
Northern Leaf Blight (NLB)
Foliar Fungicide Response (NLB)
Gibberella Ear Rot
Grey Leaf Spot
Anthracnose Stalk Rot

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P9188AM™<sup>TM</sup> | 2600 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
P9188AMXT™<sup>TM</sup> | 2700 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
P9330AM™<sup>TM</sup> | 2750 | 93 | 95 | 94 | 5 | 7 | 6 | 3 | 7 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
P9404AM™<sup>TM</sup> | 2800 | 94 | 97 | 8 | 8 | 4 | 3 | 7 | 4 | 6 | 5 | 6 | 6 | LP | 6 | 4 |

Pioneer® Brand Product
Market Segment
Technology Segment
Heat Units
CRM
Silk CRM
Physiological CRM
Stalk Strength
Silk Endurance
Ear Support
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Husk Cover
Mid-Season Brittle Stalk
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Gibberella Ear Rot
Grey Leaf Spot
Anthracnose Stalk Rot

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P8700AM™<sup>TM</sup> | 2600 | 87 | 85 | 87 | 4 | 7 | 5 | 3 | 8 | 5 | 5 | 3 | 6 | 7 | LP | 5 |
P9330AM™<sup>TM</sup> | 2750 | 93 | 95 | 94 | 5 | 7 | 6 | 3 | 7 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
P9404AM™<sup>TM</sup> | 2800 | 94 | 97 | 8 | 8 | 4 | 3 | 7 | 4 | 6 | 5 | 6 | 6 | LP | 6 | 4 |

Pioneer® Brand Product
Market Segment
Technology Segment
Heat Units
CRM
Silk CRM
Physiological CRM
Stalk Strength
Silk Endurance
Ear Support
Drought Resistance
Grain Dry-down
Test Weight
Plant Height
Ear Height
Husk Cover
Mid-Season Brittle Stalk
Northern Leaf Blight (NLB)
Foliar Fungicide Response (NLB)
Gibberella Ear Rot
Grey Leaf Spot
Anthracnose Stalk Rot

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<th>Strong root strength</th>
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P9188AM™<sup>TM</sup> | 2650 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
P9330AM™<sup>TM</sup> | 2750 | 93 | 95 | 94 | 5 | 7 | 6 | 3 | 7 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
P9404AM™<sup>TM</sup> | 2800 | 94 | 97 | 8 | 8 | 4 | 3 | 7 | 4 | 6 | 5 | 6 | 6 | LP | 6 | 4 |

For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

Pioneer® Brand Corn products are developed with the very latest in advanced breeding and research technologies. Our products come from the largest corn breeding effort in Canada with local research centres in Tavistock, Ontario and Coteau-du-Lac, Quebec.
### Notes

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

### Trialed and tested

Every year, Pioneer conducts over 30,000 product comparisons in Eastern Canada. To ensure our products perform under your local conditions.

---

### Grain Corn

#### Feature Products

<table>
<thead>
<tr>
<th>Brand/Product</th>
<th>Market Segment</th>
<th>Technology Segment</th>
<th>Heat Units</th>
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<th>Stalk Enzyme</th>
<th>Silking</th>
<th>Drought Resistance</th>
<th>Root</th>
<th>Dome</th>
<th>Gli-Dry-vin</th>
<th>Fru</th>
<th>Plant Height</th>
<th>Husk Cover</th>
<th>Silking</th>
<th>Glacon Early Fall</th>
<th>Gibberella Ear Rot</th>
<th>Gen</th>
<th>Leaf Spot</th>
<th>Anthracnose Blight</th>
<th>NLB Foliar Fungicide Response</th>
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### Ratings

- **P9526 AMXT™**
  - **2825 HEAT UNITS**
  - **Outstanding yield potential**
    - Excellent drought tolerance
    - Late flowering offensive style
    - Above average Gli-Bred ear rot tolerance

- **P9608 AM**
  - **2850 HEAT UNITS**
  - **Outstanding yield potential**
    - Great yield performance
    - Stability
    - Very good test weight
    - Very good standability traits

- **P9621 AMXT™**
  - **2850 HEAT UNITS**
  - **Outstanding yield potential**
    - Above average stress emergence
    - Solid performance

- **P9840 AM**
  - **2925 HEAT UNITS**
  - **Outstanding yield potential**
    - Great yield performance
    - Stability
    - Very good test weight
    - Above average Gli-Bred ear rot tolerance

- **P9840 AMXT™**
  - **2900 HEAT UNITS**
  - **Outstanding yield potential**
    - Excellent root strength
    - Very good drought tolerance
    - Shorter stature with low ear placement

---

### Pioneer Brand Product

- **Market Segment:**
  - 1
- **Technology Segment:**
  - AQUAmax
- **Heat Units:**
  - 2825
  - 2850
  - 2850
  - 2850
  - 2925
  - 2900
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  - 97
  - 98
- **Silk CRM:**
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  - 96
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  - 100
  - 97
- **Physiological CRM:**
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- **Stalk Enzyme:**
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- **Silking:**
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- **Drought Resistance:**
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- **Root:**
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- **Dome:**
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- **Plant Height:**
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- **Husk Cover:**
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- **Silking:**
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- **Glacon Early Fall:**
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- **Gibberella Ear Rot:**
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- **Leaf Spot:**
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- **Anthracnose Blight:**
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### More

Every year, Pioneer conducts over 30,000 product comparisons in Eastern Canada. To ensure our products perform under your local conditions.
### RATINGs*

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</table>

**NOTEs**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

OUTSTANDING | POOR | INSUFFICIENT DATA | INSUFFICIENT DATA

All Pioneer® brand corn products are available with DuPont® Lumivia® insecticide seed treatment which offers excellent protection against key early season corn pests. Lumivia® is not considered a Class 12 pesticide under Ontario Regulation 63/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Poncho® 1250 + VOTiVO™ / clothianidin) which are Class 12 pesticides. For more information, talk with your Pioneer sales representative.

---

**Optimum® AQUAmax® products**

Pioneer® brand Optimum® AQUAmax® hybrids deliver more bushels per drop under drought stress and top-end yield potential in ideal growing conditions.
### Grain Corn

#### Feature Products

**P0414™**
- **3125 HEAT UNITS**
- Great yield to moisture performance
  - Tall hybrid with good standability
  - Above average stalk strength
  - Average Gibberella ear rot tolerance

**P0506™**
- **3150 HEAT UNITS**
- Leader platform for maturity
  - Excellent yield performance
  - Very good plant health
  - Excellent drought tolerance

**P0574™**
- **3150 HEAT UNITS**
- High performing product
  - Excellent drought tolerance via Optimum® AQUAmax® trait
  - Great yield to moisture performance
  - Very good root strength

**P0825™**
- **3250 HEAT UNITS**
- Full-season product
  - Above average stalk strength
  - Exceptional stalk green
  - Average Gibberella ear rot tolerance

**P0977™**
- **3300 HEAT UNITS**
- New product with excellent performance
  - Solid agronomics
  - Good root and stalk strength
  - Above average test weight

**P1197™**
- **3400 HEAT UNITS**
- Full-season with high yield
  - Exceptional performance
  - Outstanding staygreen
  - Great stalk strength

---

**Notes**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

<table>
<thead>
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<th>Grain Corn</th>
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**Customer-focused Rewards**

As a Pioneer customer, you can take advantage of offers designed to meet your needs, including financing and deferred payment at preferred rates and Never Stop Growing Rewards providing savings on the Corteva Agriscience® lineup of crop protection products.
HERBICIDE MANAGEMENT GUIDE

grain corn

**New**

For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

Adequate Tolerance

Required Careful Management

Crop Response Warning

Insufficient Data

---

Pioneer® Brand Product

Herbicide Technology Segment

Adequate Tolerance at Rates Listed

Crop Response Warning

INSUFFICIENT DATA

---

Protect your success with Lumivia™

the trusted standard in seed treatment.

DuPont™ Lumivia™ insecticide seed treatment delivers excellent broad-spectrum protection on key early season corn insect pests. All Pioneer® brand corn products are available with Lumivia™ insecticide seed treatment.

**Key benefits**

- Outstanding protection against key early season corn insect pests
- Provides seedling protection to develop uniform and healthy stands that maximize yield potential
- Simplifies your seed treatment decision
- Offers a favourable environmental profile

**Excellent Seedling Protection**

Lumivia™ treatment delivers corn plants with superior size and vigour as compared to the fungicide only treatment.

**Picture is from a manure applied corn-on-corn field, exhibiting extremely high wireworm pressure.**

![Lumivia™ Under High Wireworm Pressure](image)

DuPont Small Plot Demo Trials from 2015 – 2016 (n=26)

---

**Early Season Protection to Maximize Yield Potential**

<table>
<thead>
<tr>
<th>Lumivia™ 500</th>
<th>Fungicide only</th>
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</thead>
<tbody>
<tr>
<td><strong>Average Yield (bu/acre)</strong></td>
<td><strong>196.5</strong></td>
</tr>
</tbody>
</table>

---

**Protection Against Key Early Season Insect Pests**

- Wireworms
- White Grub
- Black Cutworms
- Seedcorn Maggot*

---

* Suppression only

---

NOTES

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.
LumiGEN technologies is an industry-leading seed applied technology portfolio designed to help farmers establish healthy, uniform crops and maximize productivity.

Trust LumiGEN technologies to protect your investment in leading Pioneer brand seed products.

LumiGEN Seed Applied Technologies for soybean provides farmers with a range of options:

- Insecticide seed treatment
  - Protects against all major early-season insect threats
  - Provides protection without the worry
  - Provides protection without the paperwork needed for alternative products

- Fungicide seed treatment
  - Protects against most significant early-season seed and soil-borne seedling diseases
  - Includes new Lumisena™ which protects against Phytophthora
  - The number one yield-robbing seedling disease in soybeans in North America

- Nematicide & Sudden Death Syndrome seed treatment
  - Protects against soybean cyst nematode
  - Protects against sudden death syndrome

- Inoculant
  - Mix the above combinations can be ordered with or without an inoculant

New to the LumiGEN Seed Applied Technologies portfolio for 2019 planting

New Insecticide seed treatment, Cyantraniliprole is a new class of chemistry and a Group 28 neonicotinoid seed treatment that is now registered for control of early-season insect pests in soybeans.

- Broad spectrum protection from early-season insect pests
- A new mode of action with a favorable environmental profile
- Simplifies your seed treatment decisions

This new insecticide seed treatment will be available on all Pioneer® brand varieties for 2019.

NEW DuPont™ Lumisena™ provides the best protection against Phytophthora for healthier, more vigorous soybean stands and higher yield potential.

**Key benefits**

- Most advanced seed-applied technology to protect against Phytophthora
- Enhances emergence and vigour to maximize yield potential
- Improves soybean plant stands
- New class of chemistry for improved above and below ground disease control

**Protection against Phytophthora**

- Phytophthora is the #1 disease in soybeans and can significantly reduce yields
- NEW Lumisena fungicide seed treatment offers an entirely new mode of action to provide the best protection against Phytophthora
- DuPont seed treatment research has demonstrated that Lumisena™ will provide greater protection against Phytophthora than existing seed treatments

**Improves soybean yields and plant stands**

- In areas with Phytophthora pressure, Lumisena™ improves plant stands, crop vigour and yield results
- Lumisena fungicide seed treatment offers a new mode of action that controls Phytophthora far better than previous industry-standard seed treatments
- In multi-year, on-farm seed treatment research trials, Lumisena™ seed treatment provided 1 bushel per acre yield advantage under Phytophthora pressure versus the existing industry standard phytophthora seed treatment.*

**Look at the results**

The first six weeks are important for a soybean crop’s yield potential. Observe the difference in performance between two soybean plants, 40 days after planting, treated with the following seed treatments:

- Metalaxyl
- Metalaxyl and LumiGEN

<table>
<thead>
<tr>
<th>Days After Planting</th>
<th>Metalaxyl</th>
<th>Metalaxyl + LumiGEN</th>
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<tbody>
<tr>
<td>40</td>
<td>Below Average Field Tolerance</td>
<td>No Genetic Tolerance to Phytophthora</td>
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* 2019-2020 on-farm DuPont Pioneer seed treatment research trials. 78 replicated soybean research locations. FST: FST = Lumisena™ Lumisena™ 30 oz rate = 0.012 mg ai/seed or 8.4 mL product/140 k seed treatment increased soybean grain yield 1.7 bu/acre over current FST/IST (including metalaxyl, international across winning locations 62% wins).
More soybean acres than any other brand

We’re delivering strong agronomic and defensive traits to maximize yield on every acre.
A-Series Soybeans – Breakthrough Performance

Pioneer® brand A-Series soybeans offer up our highest yield potential. Anybody can claim yield – we’re proving it in the field.

### P04A60R
- **2625 HEAT UNITS**
- Strong field emergence
- Above average harvest standability
- Average white mould tolerance

### P06A13R
- **2675 HEAT UNITS**
- Brings new yield level to maturity
- Above average white mould tolerance
- Short plant with moderate canopy width

### P09A53x
- **2750 HEAT UNITS**
- Excellent harvest standability
- Very good field emergence
- Moderate canopy width

### P09A62x
- **2750 HEAT UNITS**
- Exciting yield potential
- Very consistent performance
- Above average white mould tolerance

---

**NOTES**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.

Symbol indicates above average resistance to Soybean Cyst Nematode.
<table>
<thead>
<tr>
<th>Pioneer ® Brand Product</th>
<th>Herbicide Resistance</th>
<th>SCN Resistance Source</th>
<th>Heat Units</th>
<th>Relative Maturity</th>
<th>Field Emergence</th>
<th>Phytohormone Resistant Source</th>
<th>Soybean Root 1</th>
<th>Soybean Root 2</th>
<th>Soybean Root 3</th>
<th>Sudden Death Syndrome</th>
<th>Peking Source of SCN Resistance</th>
<th>Heat Height of Maturity</th>
<th>% Protein (At 13% Moisture)</th>
<th>Oil (% At 13% Moisture)</th>
<th>Hardness</th>
<th>Harvest Standability</th>
<th>% Ash</th>
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NOTES

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.

Symbol indicates above average resistance to: Soybean Cyst Nematode

All Pioneer® brand soybean products are available with LumiGEN® insecticide seed treatment which offers excellent protection against key early season pests. Seed treated with this insecticide seed treatment is not considered a Class 12 pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.

Feature Products

**Most extensive trait toolkit**

Want choice? Pioneer® brand A-Series soybeans are available with key herbicide tolerant traits: Roundup Ready 2 Xtend®, LibertyLink®, Glyphosate Tolerant and Conventional.
### Soybean Cyst Nematode Resistance

Symbol indicates above average resistance to Soybean Cyst Nematode.

### Notes

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.

### New Products

All Pioneer ® brand soybean products are available with LumiGEN ™ insecticide seed treatment which offers excellent protection against key early season pests. Seed treated with this insecticide seed treatment is not considered a Class 12 pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.

### Soybeans FEATURE PRODUCTS

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<th>Phytosterol Resistance Gene</th>
<th>Phytohormone Field Resistance</th>
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<th>SCN Race 1</th>
<th>SCN Race 3</th>
<th>Aphid Antibiosis</th>
<th>White Mould</th>
<th>Canopy Width</th>
<th>Harvest Standability</th>
<th>Plant Height at Maturity</th>
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**Ratings**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.

### Pioneer ® Brand Product

**Herbicide Resistance**

**SCN Resistance Source**

**Heat Units**

**Relative Maturity**

**Field Emergence**

**Phytosterol Resistance Gene**

**Phytosterol Field Resistance**

**Sudden Death Syndrome**

**SCN Race 1**

**SCN Race 3**

**Aphid Antibiosis**

**White Mould**

**Canopy Width**

**Harvest Standability**

**Plant Height at Maturity**

**% Protein (At 13% Moisture)**

**% Oil (At 13% Moisture)**

**Halo Colour**

**Seed Size Range**

### Notes

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.

All Pioneer ® brand soybean products are available with LumiGEN ™ insecticide seed treatment which offers excellent protection against key early season pests. Seed treated with this insecticide seed treatment is not considered a Class 12 pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.
<table>
<thead>
<tr>
<th>Pioneer® Brand Product</th>
<th>Herbicide Resistance</th>
<th>Relative Maturity</th>
<th>Sulfentrazone and Saflufenacil</th>
<th>Metribuzin</th>
<th>Sulfentrazone and Saflufenacil</th>
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Maximizing milk-per-ton and yield-per-acre

Industry-leading research, agronomic and nutritional expertise with every seed.

NOTES
- ADEQUATE TOLERANCE
- REQUIRES CAREFUL MANAGEMENT
- CROP RESPONSE WARNING
- INSUFFICIENT DATA

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 49.
### Pioneer® Brand Product

<table>
<thead>
<tr>
<th>Market Segment</th>
<th>Technology Segment</th>
<th>Conventional Available in Same Genetics</th>
<th>Adapted Maturity Zone (Heat Units)</th>
<th>Silage CRM</th>
<th>Silage Yield</th>
<th>Starch &amp; Sugar %</th>
<th>Whole Plant Digestibility</th>
<th>Silage Milk Protein</th>
<th>Milk in Bead Per Acre</th>
<th>Milk in Bead Per Ton</th>
<th>Silage Starch &amp; Sugar</th>
<th>Root Strength</th>
<th>Stress Tolerance</th>
<th>Root Strength</th>
<th>Plant Height</th>
<th>Forage Fungicide Response (NLB)</th>
<th>Gibberella Ear Rot</th>
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### Notes

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

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<th>OUTSTANDING</th>
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</thead>
<tbody>
<tr>
<td>OUTSTANDING</td>
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Forage Know-How

Your Pioneer sales rep is your go-to for forage know-how. They're backed by full-time forage specialists, a local agronomist and a global network of Pioneer experts including veterinarians, nutritionists and scientists.
**Pioneer® Brand Product**

**Market Segment**  
1. Conventional Available in North America
2. Same Genetics
3. Adapted Maturity Zone (Heat Units)
4. Silage CRM
5. Silage Yield
6. Stalk & Sugar %
7. Whole Plant Digestibility
8. Silage Crush Potential
9. Milk or Beef Per Acre
10. Seed Strength
11. Root Strength
12. Root, Stem, and Ear Emergence
13. Root-Top Root
14. Fiber Digestibility
15. Silage Crude Protein
16. Milk or Beef Per Ton
17. Stalk Strength
18. Fiber Digestibility
19. Silage Crude Protein
20. Milk or Beef Per Ton
21. Root Height
22. Fiber Digestibility
23. Whole Plant Digestibility
24. Stalk Strength
25. Root Strength
26. Root, Stem, and Ear Emergence
27. Root-Top Root
28. Fiber Digestibility
29. Silage Crude Protein
30. Milk or Beef Per Ton
31. Stalk Strength
32. Root Height
33. Fiber Digestibility
34. Whole Plant Digestibility
35. Stalk Strength
36. Root Height
37. Fiber Digestibility
38. Whole Plant Digestibility
39. Stalk Strength
40. Root Height

### RATINGS*  

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| 2700-3000 HEAT UNITS | Outstanding silage yield  
- Strong digestibility  
- Exceptional drought tolerance via Optimum® AQUAmax®  
- Very good milk/beef per ton | 2800-3100 HEAT UNITS | Silage-specific product  
- Excellent fibre digestibility  
- Starch content  
- Superb forage quality  
- Superb milk/beef per ton | 2800-3100 HEAT UNITS | Brown mid-rib (BMR) product  
- Strong agronomics with the BMR gene  
- Superb digestibility  
- Excellent milk per ton | 3100-3400 HEAT UNITS | Full-season silage-specific product  
- Excellent silage yield  
- Above average drought tolerance  
- Superb milk/beef per ton |

**NOTES**  
*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48.

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From planting through feedout, Pioneer can help apply its industry-leading research, agronomic and nutritional expertise on a range of products to meet your needs.
Top tonnage and forage quality

Our varieties offer the total package.

<table>
<thead>
<tr>
<th><strong>Pioneer® Brand Product</strong></th>
<th><strong>Herbicide Resistance</strong></th>
<th><strong>Forage Yield</strong></th>
<th><strong>Relative Forage Quality</strong></th>
<th><strong>Milk Yield per Acre</strong></th>
<th><strong>Fall Dormancy</strong></th>
<th><strong>Winterhardiness</strong></th>
<th><strong>Disease/pest Resistance</strong></th>
<th><strong>Pea Aphid</strong></th>
<th><strong>Standability or Lodging</strong></th>
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**NOTES**

** All Pioneer products are varieties unless designated with brand, in which case it is comprised of more than one Pioneer® brand variety.
+ Varieties with HarvXtra® technology will have significantly higher RFQ values than any other variety due to the reduced lignin content.

DISEASE/PEST RESISTANCE KEY:

HR = Highly Resistant
R = Resistant
MR = Moderately Resistant
LR = Low Resistance
S = Susceptible

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 50.
# SILA-BAC® BRAND NUTRIVAIL™ FEED TECHNOLOGY

## CORN FIBRE TECHNOLOGY

**11CFT Multi-strain with L. buchneri**

Improves nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering corn silage pH. Contains a proprietary L. buchneri strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high-production animals fed high levels of corn silage. Allows for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

**REGISTERED PRODUCT CLAIMS**
- Improved dry matter digestibility
- Improved NDF digestibility
- Improved feed efficiency
- Reduced dry matter loss during ensiling

**RATINGS**

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<th>Fermentation</th>
<th>Bunklife</th>
<th>Improved Fibre Digestibility</th>
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## GRASS FIBRE TECHNOLOGY

**11GFT Multi-strain with L. buchneri**

Improves nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering grass or cereal silage pH. Contains a proprietary L. buchneri strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high-production animals fed high levels of cereal or grass forage. Allows for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

**REGISTERED PRODUCT CLAIMS**
- Improves acid detergent fibre (ADF) digestibility
- Improves neutral detergent fibre (NDF) digestibility

**RATINGS**

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## ALFALFA FIBRE TECHNOLOGY

**11AFT Multi-strain with L. buchneri**

Improves nutrient conservation and fibre digestibility. Reduces dry matter loss and protein degradation by rapidly lowering alfalfa silage pH. Contains a proprietary L. buchneri strain to significantly improve bunklife and reduce aerobic losses at feed-out. Excellent choice for high-production animals fed high levels of alfalfa forage. Allows for higher forage inclusion rates, reducing the need for supplemental protein and energy sources in the ration.

**REGISTERED PRODUCT CLAIMS**
- Improves acid detergent fibre (ADF)
- Improves neutral detergent fibre (NDF)
- Improves crude protein digestibility of alfalfa ensiled at 35%-45% dry matter

**RATINGS**

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**NOTES**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 50*

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# SILA-BAC® BRAND INOCULANTS

## CORN SILAGE

**11C33 Multi-strain with fast acting L. buchneri**

Improves corn silage nutritional value by rapidly lowering pH to conserve sugar and starch. Significantly improves bunklife as a result of the inclusion of a proprietary fast acting L. buchneri strain. Provides improved bunklife and stable feed in 7 days.

**REGISTERED PRODUCT CLAIMS**
- Reduced heating at feeding
- Reduced dry matter loss during ensiling

**RAPID REACT**

<table>
<thead>
<tr>
<th>Aerobic Stability</th>
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</thead>
<tbody>
<tr>
<td>** ** **</td>
</tr>
</tbody>
</table>

## GRASS / CEREAL

**11B91 Multi-strain with fast acting L. buchneri**

Combines the benefits of 1189 with significantly improved bunklife as a result of the inclusion of a proprietary fast acting L. buchneri strain. Provides improved bunklife and stable feed in 7 days.

**REGISTERED PRODUCT CLAIMS**
- Reduced heating at feeding
- Reduced dry matter loss during ensiling

**RAPID REACT**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>*** ***</td>
</tr>
</tbody>
</table>

## HIGH-MOISTURE CORN

**11B22 Multi-strain with fast acting L. buchneri**

Improves grass and cereal silage nutritional value by rapidly lowering pH to conserve sugar and starch. Significantly improves bunklife as a result of the inclusion of a proprietary fast acting L. buchneri strain. Provides improved bunklife and stable feed in 7 days.

**REGISTERED PRODUCT CLAIMS**
- Reduced heating at feeding
- Reduced dry matter loss during ensiling

**RAPID REACT**

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<td>** ** **</td>
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</tbody>
</table>

## ALFALFA SILAGE

**11H50**

Improves alfalfa silage nutritional value by rapidly lowering pH to conserve sugars. Significantly reduces protein degradation in alfalfa silages.

**REGISTERED PRODUCT CLAIMS**
- Improved dry matter digestibility

**RATINGS**

<table>
<thead>
<tr>
<th>Fermentation</th>
<th>Bunklife</th>
<th>Improved Fibre Digestibility</th>
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<tr>
<td>***</td>
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<td>** **</td>
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</tbody>
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*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 50*
Inspiring the future of Canadian agriculture!

Growing Today, Leading Tomorrow is an exciting new community investment initiative from Corteva Agriscience™, Agriculture Division of DowDuPont. The program provides funds for agricultural education, farm safety, and food security programs that directly support youth in agricultural communities – the next generation of Canadian farmers and leaders.

At Corteva Agriscience™, we have a proud history of giving back to agriculture with grants that have had a positive impact on countless people and communities. Through two of our previous community investment programs – the Funding Initiative for Rural Emergencies (2013-2015) and the Full Belly! Full Mind! program (2016-2017) – we have provided over $500,000 to rural communities across Canada.

For more information or to receive the application package, please contact your local Pioneer sales representative or email us at growingtoday@pioneer.com.

Together we can support and inspire future farm leaders – today!

Achieve aerobic stability quickly

Rapid React aerobic stability technology contains a proprietary bacterial strain that quickly goes into action, making feed ready in just seven days. The benefits of this new technology include:

• Faster access to your most valuable input
• A consistently cool bunker face
• Extended bunklife

Increase feed optimization

Rapid React aerobic stability technology with next-generation L. buchneri allows you to get more out of every day and every ton by working to:

• Increase fermentation efficiency
• Minimize dry matter loss
• Reduce spoilage on the top and tails of the bunker or pile
• Produce consistently palatable feed

SO FAST... it can keep up with you.
Ready to feed in just 7 days

Sila-Bac® brand inoculants 11C33, 11G22 and 11B91 with Rapid React® aerobic stability technology are a breakthrough advancement from Pioneer®. This innovation provides stable feed in just seven days. And like all Sila-Bac brand inoculants, they can help maximize the value of your homegrown feed.

Rapid React aerobic stability technology is a proprietary bacterial strain that quickly goes into action, making feed ready in just seven days.

**Rapid React™**

Achieve aerobic stability quickly

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And like all Sila-Bac brand inoculants, they can help maximize the value of your homegrown feed.

**Rapid React™**

Increase feed optimization

Rapid React aerobic stability technology with next-generation L. buchneri allows you to get more out of every day and every ton by working to:

• Increase fermentation efficiency
• Minimize dry matter loss
• Reduce spoilage on the top and tails of the bunker or pile
• Produce consistently palatable feed

**Rapid React™**

**AEROCOBY DRY MATTER LOSSES**

**SILA-BAC BRAND INOCULANT 11C33 WITH NEW RAPID REACT AEROBIC STABILITY TECHNOLOGY**

Nine whole-plant corn silage trials

**23 percent improvement at 7 days**
NOTES
Trait ratings provide key information useful in selection and management of Pioneer® brand products in your area. Scores are based on period-of-years testing through 2017 harvest and were the latest available at time of printing. Some scores may change during the 2018 season. Contact your Pioneer sales representative before planting for the latest trait rating information.

IMPORTANT: Information and ratings are based on comparisons with other Pioneer® brand products, not competitive products. Information and ratings are assigned by Pioneer Agronomists and Research Managers, based on average performance across area of adaptation under normal conditions, over a wide range of both climate and soil types, and may not predict future results. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Refer to www.pioneer.com/Canada or contact a Pioneer® sales representative for the latest and most complete listing of traits and scores for each Pioneer® brand product and for product placement and management suggestions specific to your operation and local conditions.

1: HEADING DATE IN AREAS OF ADAPTATION:
Heading date in days earlier (-) or later (+) than Pioneer® brand variety 25R40.

2: PLANT HEIGHT:
Lower scores = shorter.

<table>
<thead>
<tr>
<th>Pioneer® Brand Product</th>
<th>Wheat Type</th>
<th>Heading Date - North</th>
<th>Yield for Primary Area</th>
<th>Test Weight</th>
<th>Lodging Resistance</th>
<th>Winterhardiness</th>
<th>Leaf Blight</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Powdery Mildew</th>
<th>Fusarium Head Blight</th>
<th>Spindle Streak Mosaic Virus</th>
<th>Soil-Borne Mosaic Virus</th>
<th>Flour Yield Score</th>
<th>Flour Softness Score</th>
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<td>Awned</td>
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</table>

Pioneer® brand wheat varieties are leading the way in Eastern Canada.
Genetics bred to deliver

Superior yield potential plus best-in-class trait packages.

NOTES
*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 50.

<table>
<thead>
<tr>
<th>Pioneer Brand Product</th>
<th>Herbicide Tolerant Trait</th>
<th>Maturity</th>
<th>Sclerotinia Resistance</th>
<th>Clubroot Resistance</th>
<th>Blackleg</th>
<th>Blight</th>
<th>Fusarium Wilt</th>
<th>Early Growth</th>
<th>Green Seed Content</th>
<th>Standability</th>
<th>Plant Height</th>
<th>Oil Content</th>
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<tr>
<td>45CS40</td>
<td>Pioneer Protector®</td>
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</table>

Pioneer Protector® traits
Our canola lineup delivers exclusive, top-performing Pioneer Protector® traits for built-in resistance to clubroot, sclerotinia and/or pod shattering.
IMPORTANT: Trait ratings provide key information useful in the selection of Pioneer products. Ratings are based on performance of Pioneer products in North American and overseas trials and testing. Comparisons are made with various competitive products in both climate and soil conditions. All tests are conducted under fully managed environments and under conditions similar to normal farming environments. Information and ratings are based on comparisons with other Pioneer products and independent sources. Trait ratings are not intended to be conclusive and should not be used alone in making growing decisions. Some tests may change after 2021 harvest. Other sources of information include over 35 years of research trials, independent sources, and a wide range of external sources. All tests are conducted under fully managed environments and under conditions similar to normal farming environments. Individual product responses are variable and subject to a variety of environmental conditions and grower practices. The latest available information is one key component of your product positioning policy. Refer to www.pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and ratings.

1 MARKET SEGMENT: Designates indicates products not also suitable for use in other segments.

2 TECHNOLOGY SEGMENT: AM = Pioneer sales representative for the latest and most complete listing of traits and ratings. Some scores may change after 2021 harvest. Other sources of information include over 35 years of research trials, independent sources, and a wide range of external sources. All tests are conducted under fully managed environments and grower practices. The latest available information is one key component of your product positioning policy. Refer to www.pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and ratings.

3 CORN FOOTNOTES

4 SOYBEANS FOOTNOTES

5 SOYBEANS FOOD FOOTNOTES

6 HERBICIDE PRODUCT MANAGEMENT GUIDANCE: This guide can assist you in managing your herbicide program. Pioneer® brand products are marketed, labeled, and/or sold for use in or under the United States. Use of this information and the potential to benefit from using this information is the responsibility of the grower. Selection of appropriate herbicides and application rates is a grower decision. An important aspect of herbicide program management is to ensure that the herbicide program is compatible with the other agronomic practices that will be used with that product.

6 FERTILIZER MANAGEMENT GUIDANCE: When appropriate, agronomy professionals will advise you on the most effective and economical fertilization plan for your operation.

7 SOYBEANS FOOD FOOTNOTES

8 SEEDS/CORN FOOD FOOTNOTES

9 SOYBEANS FOOD FOOTNOTES

10 HERBICIDE PRODUCT MANAGEMENT GUIDANCE: When appropriate, agronomy professionals will advise you on the most effective and economical fertilization plan for your operation.
IMPORTANT: Trait rating scores provide key information useful in selection and management of Pioneer® brand products in your area. Information and ratings are based on comparisons with other Pioneer brand products, and competitive products. Information and scores are assigned by Pioneer Research Managers. Scores are based on periods of testing through 2017 harvest and were the latest available at time of printing. Some scores may change after 2018 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision. Refer to www.pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Pioneer brand product.

HERBICIDE TOLERANT TRAIT: Hybrids with the Roundup Ready® gene (RR) are tolerant to labeled rates of Roundup® branded herbicides. This technology allows for post-emergent applications of Roundup without crop injury or stress (see herbicide label). Labeled Roundup herbicides should only be used on the top of these hybrids and varieties that carry the Roundup Ready® trait. Hybrids with the Genuity® Roundup Ready® trait are tolerant to labeled rates of Beyond®, Odyssey®, or Absolute® herbicides. This technology allows for post-emergent applications of these herbicides without crop injury or stress (see herbicide label). Labeled herbicides should only be used on the top of these hybrids and varieties that carry the Genuity Roundup Ready® trait. Hybrids with the Roundup Ready® gene (RR) and Genuity® Roundup Ready® are registered trademarks used with permission of the company Monsanto. "Roundup Ready® is a registered trademark of Monsanto.

ALFALFA FOOTNOTES

1 HERBICIDE RESISTANCE: "Genuity® and Roundup Ready®" are registered trademarks used under license from Monsanto Company. HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® alfalfa with Roundup Ready® technology is enrolled with technology from The Samuel Roberts Noble Foundation, Inc. Do not export Pioneer® brand alfalfa seed or crops containing Genuity® Roundup Ready® technology or planting hay or hay products. In China pending import approval. Please contact the local Pesticide Laboratory Directors. Alfalfa with the Genuity® Roundup Ready® technology provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. Glyphosate herbicide will kill crops that are not tolerant to glyphosate. ACCORDING TO APPLICAITON OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS. Pioneer is a member of Excellence Through Stewardship® (ETS). Pioneer products are commercialized in accordance with ETS Product Launch Stewardship Guidelines and in compliance with the Pioneer policies regarding stewardship of these products. Crops and materials containing biotech traits may only be exported to or used in countries where all required governmental approvals have been granted for these crops and materials. In a violation of national and international laws, such materials containing biotech traits are traded across borders into jurisdictions where their import is not permitted. Growers should discuss purchase issues with their purchaser or grain handler to confirm the purchaser or handler possesses the legal authority to purchase the product. For further information on the approval status of biotech traits, please visit www.biotechcrops.com. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

1 FORAGE YIELD: B = (Observation - 1) / Range

MAIZE YIELD PER ACRE: B = (Observation - 1) / Range

Maturity: milk yield per acre is based on Wisconsin Milk 2006 formula representing the combined impact of forage yield, nutrient content and digestibility.

WINTER HARDINESS: VR = Very Hardy; R = Hardy

DISEASE RESISTANCE INDEX: OR is a disease index based on the following pests: Eastern and Western Stemborer, Fall Armyworm, Armyworm, Aphids, Soybean Cyst, Verticillium, GST, Fusarium, Rhizoctonia, Rhizospheric, Blackleg, Brown, Downy Mildew, Brown Rot, White Root, Blight, Gray, Rust, Septoria.

STANDABILITY/CLOUSING RESISTANCE: Scores based on plant lodging observations (% of stems >45° angle averaged across various areas of adaptation.

CANOLA FOOTNOTES

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1 HERBICIDE TOLERANT TRAIT: Hybrids with the Roundup Ready® gene (RR) are tolerant to labeled rates of Roundup® branded herbicides. This technology allows for post-emergent applications of Roundup without crop injury or stress (see herbicide label). Labeled Roundup herbicides should only be used on the top of these hybrids and varieties that carry the Roundup Ready® trait. Hybrids with the Genuity® Roundup Ready® trait are tolerant to labeled rates of Beyond®, Odyssey®, or Absolute® herbicides. This technology allows for post-emergent applications of these herbicides without crop injury or stress (see herbicide label). Labeled herbicides should only be used on the top of these hybrids and varieties that carry the Genuity Roundup Ready® trait. Hybrids with the Roundup Ready® gene (RR) and Genuity® Roundup Ready® are registered trademarks used with permission of the company Monsanto. "Roundup Ready® is a registered trademark of Monsanto.

2 MATURITY: S = Mid-early; E = Early; M = Medium; L = Late

3 GROWTH HABIT: A = Highly Resistant; B = Moderately Resistant; C = Susceptible;

4 CLUBROOT RESISTANCE: B = Resistant; C = Moderately Resistant; D = Susceptible

5 CLUBROOT RESISTANCE: B = Resistant; C = Moderately Resistant; D = Susceptible

6 BLACKLEG: B = Resistant; M = Moderately Resistant; R = Susceptible

7 BLACKLEG: B = Resistant; M = Moderately Resistant; R = Susceptible

8 FUSARIUM WILT: B = Resistant; M = Moderately Resistant; R = Susceptible

9 UGAR EIGHTY: B = Excellent; C = Good; D = Poor; E = Severely lodged. Rating based on relative plant health and leaf size.

10 GREEN SEED CONTENT: B = Very low count (desired); C = Low count; D = Medium count; E = High count; F = Very high count.

11 STANDABILITY: B = Very low count (desired); C = Low count; D = Medium count; E = High count; F = Very high count.

12 STRAIGHT CUT: B = Excellent; C = Good; D = Medium; E = Poor; F = Very poor.

13 PLANT HEIGHT: B = Tall; C = Short; D = Average

14 OIL CONTENT: Oil content is compared to long-term check Pioneer® brand 45H29. A change of one score represents approximately one percent difference in oil content.

NOTES | 51

50 | FOOTNOTES
Not all Pioneer® brand products are included in this guide. See your Pioneer sales representative for information on all our products or visit www.pioneer.com/Canada.

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