THE NEXT GENERATION OF FARMING
FOR THE NEXT GENERATION OF FARMERS.
In today’s fast-changing agricultural environment, it’s important for farmers to proactively manage agronomic, disease and pest challenges that can impact a field’s yield potential.

At Pioneer, we provide farmers with reliable service, and consistent, high-yield potential products that are developed and tested locally to perform on your operation. Through our industry-leading genetics, multi-million dollar investment in research and unmatched local team support, Pioneer remains committed to farmers’ success.

And now, as the newly formed Corteva Agriscience™, we are the only North American based crop production company whose sole focus is agriculture. We remain committed to helping our customers maximize productivity and profitability. We are honoured to be a trusted partner and will continue to earn your business each and every season.

We also offer the industry’s most extensive technologies, products and services to help you get the most out of your seed.

**PIONEER® AGRONOMY** Pioneer agronomy uses data from thousands of on-farm trials, extensive research and a team of local agronomists to provide you with helpful crop management and product placement insights.

**SEED TREATMENTS** LumiGEN™ technologies provide a broad, industry-leading portfolio of thoroughly tested seed treatments, enabling you to be confident that your seeds and seedlings have a strong, healthy start.

**CORTEVA AGRISCIENCE™ CROP PROTECTION** We work closely with our Crop Protection team to create customized solutions to help maximize your yield, year after year.

**GRANULAR® SOFTWARE** Our agriculture software business is dedicated to building stronger and more profitable farms. With web and mobile apps grounded in advanced data science technology, Granular Software helps farmers make data-driven, real-time business and agronomic decisions with greater confidence.

**COMMUNITY INVESTMENT** Our Community Investment program gives back to the communities our customers live and work in, because we are proud to support rural communities across Canada. We know a little help can go a long way.
LEADING THE INDUSTRY

The time for change is here and now. Pioneer has the genetics, the tools and the testing capabilities to deliver the most diverse and consistent lineup of high-yielding corn products for your farm. Let’s revolutionize corn, boosting yield and performance beyond anything ever thought possible.
GRAIN CORN

**Feature Products**

<table>
<thead>
<tr>
<th>Bracket Product</th>
<th>Market Segment</th>
<th>Technology Segment</th>
<th>Heat Units</th>
<th>CRM</th>
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<th>Physiological CRM</th>
<th>Silk Strength</th>
<th>Root Strength</th>
<th>Stem Emergence</th>
<th>stalk Strength</th>
<th>Grain Drydown</th>
<th>Plant Height</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 48.

**OUTSTANDING** **POOR** **INSUFFICIENT DATA**

All Pioneer® brand corn products are available with Luminva™ insecticide seed treatment which offers excellent protection against key early season corn pests. Luminva™ 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.

**NOTES**

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.

**CUTTING-EDGE RESEARCH & DEVELOPMENT**
## GRAIN CORN

### Feature Products

**P8736AM™**
- **2550 HEAT UNITS**
- New platform with solid agronomics
  - Excellent yield potential
  - Taller plant with above average stalk strength
  - Good disease resistance package

**P9330AM™**
- **2750 HEAT UNITS**
- Great yield potential with solid agronomics
  - Responds well to intensive management practices
  - Very good root strength
  - Above average test weight

**P9404AM™**
- **2800 HEAT UNITS**
- Yield potential plus agronomics
  - Excellent agronomic package
  - Good stability
  - Above average test weight

**P9492AM™**
- **2825 HEAT UNITS**
- Exciting yield performance
  - Solid agronomics
  - Excellent drought tolerance
  - Very good stalk strength

### NOTES

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### LUMIVIA™ INSECTICIDE SEED TREATMENT

All Pioneer® brand corn products are available with 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 + VOTIVIO™ / clothianidin) which are Class 12 pesticides. For more information, talk with your Pioneer sales representative.

**LUMIVIA™ INSECTICIDE SEED TREATMENT**

All Pioneer® brand corn products are available with Lumivia™ insecticide seed treatment. It delivers excellent broad-spectrum protection on key early season corn insect pests including wireworms, white grub, black cutworms and seedcorn maggot.

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### RATING RATING RATING RATING

| **P8542AM™** | **2550** | 85 | 86 | 87 | 4 | 7 | 5 | 5 | 6 | 6 | 5 | 7 | 5 | 7 | 6 | 6 | LP | 5 |
| **P8736AM™** | **2550** | 87 | 86 | 6 | 7 | 4 | 8 | 7 | 3 | 4 | 8 | 4 | 6 | LP | 6 |
| **P9989AM™** | **2625** | 89 | 88 | 7 | 5 | 5 | 5 | 7 | 3 | 5 | 5 | 7 | 6 | LP | 6 |
| **P9989AMXT™** | **2650** | 89 | 88 | 7 | 5 | 5 | 5 | 7 | 3 | 5 | 5 | 7 | 6 | LP | 6 |
| **P9188** | Conventional | 2600 | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
| **P9188AM™** | **2650** | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
| **P9188AMXT™** | **2700** | 91 | 89 | 91 | 6 | 8 | 4 | 4 | 7 | 4 | 6 | 4 | 6 | 5 | 7 | LP | 5 | 5 |
| **P9330** | Conventional | 2700 | 93 | 95 | 94 | 4 | 7 | 6 | 3 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
| **P9330AM™** | **2750** | 93 | 95 | 94 | 4 | 7 | 6 | 3 | 6 | 6 | 7 | 5 | 6 | LP | 4 |
| **P9404AM™** | **2800** | 94 | 94 | 97 | 8 | 8 | 4 | 3 | 6 | 4 | 6 | 5 | 3 | 6 | 6 | LP | 6 | 4 |
| **P9492AM™** | **2825** | 94 | 97 | 98 | 7 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 5 | MP | 4 | 4 |

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### OUTSTANDING POOR INSUFFICIENT DATA

All Pioneer® brand corn products are available with 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 + VOTIVIO™ / clothianidin) which are Class 12 pesticides. For more information, talk with your Pioneer sales representatives.
NOTES
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OUTSTANDING   POOR   INSUFFICIENT DATA

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PIONEER® BRAND OPTIMUM® ACREMAX® LEPTRA®
• Pioneer® brand Optimum® AcreMax® Leptra® products combine three proven insect protection traits – Herculex®, YieldGard® Corn Borer, and Agrisure Viptera®
• Controls a broad spectrum of pests, including western bean cutworm, corn earworm, European corn borer and black cutworm
• Provides a superior level of efficacy against ear-feeding pests for cleaner ears with improved grain quality
• Reduces a major risk factor in developing mould and mycotoxins
• Features 5% blended refuge

GRAIN CORN

<table>
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<tr>
<th>Feature Products</th>
<th>GRAIN CORN</th>
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<tr>
<td>PIONEER® BRAND OPTIMUM® ACREMAX® LEPTRA®</td>
<td>GRAIN CORN</td>
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<td>P9608AM™</td>
<td>2850 HEAT UNITS</td>
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<tr>
<td>Solid performer</td>
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<td>• Great yield performance and stability</td>
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<td>• Very good test weight</td>
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<tr>
<td>• Excellent standability traits</td>
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| P9621AMXT™ | 2850 HEAT UNITS |
| Outstanding yield potential |
| • Responds well to intensive management |
| • Late flowering offensive-style |
| • Above average Gibberella ear rot tolerance |

| P9840AM™ | 2925 HEAT UNITS |
| Strong yield potential |
| • Excellent root strength |
| • Above average staygreen |
| • Shorter stature with low ear placement |

| P9946AML™ | 2950 HEAT UNITS |
| NEW Optimum® AcreMax® Leptra® |
| • Built in protection from western bean cutworm |
| • Solid agronomics |

| P9998AML™ | 2950 HEAT UNITS |
| Great yield to moisture performance |
| • Above average root and stalk strength |
| • Great yield to moisture performance |
| • Above average test weight |

| P9998AMXT™ | 3000 HEAT UNITS |
| Outstanding product for maturity |
| • Excellent drought tolerance via Optimum® AQUAmax® trait |
| • Above average test weight |
| • Exciting product for maturity |

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

All Pioneer® brand corn products are available with 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.
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EXCLUSIVE TECHNOLOGY TO UNLOCK HIGHER YIELD POTENTIAL ON YOUR ACRES

• New, high-yielding Pioneer® brand Qrome® products will be equipped with proven insect protection technologies and strong agronomics for maximum performance
• Dual mode of action pyramid for above- and below-ground protection with increased yield potential
• 5% integrated refuge single-bag solution

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

<table>
<thead>
<tr>
<th>Feature Products</th>
<th>GRAIN CORN</th>
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</thead>
</table>

**P0720AM™**
3225 HEAT UNITS
New full-season product with good agronomics
• Offers diversity for full season maturity
• Very good root strength
• Excellent drought tolerance

**P0825AM™**
3250 HEAT UNITS
Exceptional performance
• Above average stalk strength
• Exceptional staygreen
• Above average Northern leaf blight tolerance

**P0977AM™**
3300 HEAT UNITS
Excellent performance
• Solid agronomics
• Good root and stalk strength
• Above average test weight

**P1197AMXT™**
3400 HEAT UNITS
New full-season with high yield potential
• Exceptional performance
• Outstanding staygreen
• Great stalk strength

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**NOTES**

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All Pioneer® brand corn products are available with 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.

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**LOCAL SUPPORT & 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.
# GRAIN CORN

**LumiGEN™ technologies** protect your investment with best-in-class seed treatment. You can plant with confidence knowing your seeds and seedlings have advanced protection against pests, disease and uncertain soil conditions during the critical early growth period.

## Best-in-class protection
Corteva Agriscience works in-house and with third-party collaborators to offer an innovative lineup of fungicides, insecticides, nematicides and biologicals that offers the right combination of protection to every acre.

## Thorough testing
With our robust testing infrastructure, including our own Center for Seed Applied Technologies, we thoroughly evaluate all seed treatment prior to commercialization. We extensively test every component across multiple years, geographies, environments, and with different planting equipment.

## Maximum value
Our seed treatment delivers maximum value and protection. You can rely on LumiGEN™ technologies to help you establish a healthier, more vigorous crop for a strong start and greater yield potential.

## Protect Your Seed From the Start

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

### Lumisena™
**Fungicide Seed Treatment**

### Lumivia™
**Insecticide Seed Treatment**

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### 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 48.*

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## Table: Grain Corn Herbicide Management Guide

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<th>Pioneer® Brand/Year</th>
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**Pioneer® Brand Product**

**Technology Segment**
- Amide
- Benzoic Acid & Phenoxy
- Isoxazole

**SU**
- 2
- 23
- 24
- 25
- 26
Directed Scouting

Know more. Grow more. Make more.

Scout Faster and Protect Yield
Streamline your scouting efforts with industry-leading Directed Scouting tools in Granular Insights. Features like notifications, smart field rankings, and high frequency satellite imagery will help you take the guesswork out of scouting.

Save Time
Know the top fields to go scout first with email notifications delivered weekly.

Scout Faster
Prioritize in-field scouting efforts in advance with automatic field rankings.

Find and Fix Issues Before Yield Impact
Monitor your entire operation anytime from anywhere, and easily pinpoint potential at-risk fields with high frequency, 3-m satellite imagery.

Catch Problems Faster
A grower spotted an area of unusually high vegetation early in the season using the Vegetation Index. Upon scouting, the dark spot turned out to be a stubborn weed pressure.
A timely herbicide application formulated to target the weed eliminated the issue and prevented yield loss at harvest.

Getting Started is Easy
Create an account and start adding fields in 90 seconds with auto-detected field boundaries and a simple interface. Access your fields from anywhere using the mobile app or website.

Find Me
GPS-enabled feature helps you locate and scout at risk areas.

Offline Fields
No cell reception in your fields? Download images and go.

Unlimited Users
Collaborate seamlessly with your entire team with no user limits.

Permissions
Control the access for each user on your operation.

Contact us for more info:
sales-na@granular.ag | 888-435-4726 | ca.granular.ag

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Higher Yield Potential with Pioneer® brand
A-Series Soybeans

Pioneer® brand A-Series soybeans – the highest yielding class of soybean varieties ever introduced by Pioneer. They offer soybean growers improved weed control options in varieties that are bred to produce the highest yield potential for their farms.

THE A-SERIES ADVANTAGE

- 3.5 bu/A yield advantage vs. competitive Roundup Ready 2Xtend® varieties across 7,654 comparisons*
- Powered by Advanced Yield Technology (AYT) 4.0, which has more than doubled the rate of genetic gain of the Pioneer research pipeline
- Developed by an extensive network of local research centres that test and prove varieties where they are grown to ensure they provide the highest yield potential
- Advanced molecular breeding and intense testing in Pioneer disease research nurseries help deliver the defensive traits growers need to protect yield potential

* Data is based on an average of 3,854 IMPACT™ comparisons in 2018 made in the United States, Ontario and Quebec through Jan. 1, 2019. Comparisons are against all competitive Roundup Ready 2 Xtend® varieties and within +/- 3 RM of the competitive brand. Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data are a better predictor of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION.

Refer to www.pioneer.com/canada or contact a Pioneer sales representative for the latest and complete listing of traits and scores for each Pioneer® brand product.
## Feature Products SOYBEANS

### SOYBEANS

| Pioneer® Brand Product | Herbicide Resistance | Heat Units | Relative Maturity | Field Emergence | SCN Root Rot Resistance | Phytophthora R. | Soybean Cyst Nematode | Phoma | Helminthosporium Blotch | Fusarium | White Mould | Compacted Soil | Harvestability | Root Knot Nematode | % Protein in 13% Moisture | % Oil in 13% Moisture | Hila Colour | Seed Size Range |
|------------------------|----------------------|------------|-------------------|----------------|------------------------|----------------|---------------------|-------|----------------------|---------|-----------|---------------|----------------|----------------|------------------|--------------------|----------------|------------|----------------|
| **P03A26x**            | Glyphosate           | 2600       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2500-3100    |
| **P06A13R**            | Glyphosate           | 2675       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2500-3100    |
| **P09A53x**            |                     | 2750       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2500-3100    |
| **P09A62x**            |                     | 2750       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2500-3100    |
| **P09T74R**            | P188788             | 2750       | 7                 | 1c              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2500-3100    |
| **P11A10**             | Conventional         | 2800       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2800-3400    |
| **P11A44x**            | P188788             | 2800       | 7                 | 1k              | 5**                   | 1               | 4                  | 6     | 7                   | 7**     | 5         | 6             | 7**            | 5               | 3**              | 3                 | 20               | BR         | 2800-3400    |

### NOTES

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

Symbol indicates above average resistance to:  
- Soybean Cyst Nematode
- All Pioneer® brand soybean products are available with Cyazofamid 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.

### MOST EXTENSIVE TRAIT TOOLKIT

Want choice? Pioneer® brand varieties are available with key herbicide tolerant traits: Roundup Ready 2 Xtend®, Enlist E3™, LibertyLink®, Glyphosate Tolerant and Conventional.
### SOYBEANS

<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>Phytophthora Resistance</th>
<th>Sudden Death Syndrome</th>
<th>SCN Race 3</th>
<th>SCN Race 4</th>
<th>SCN Race 5</th>
<th>Alfalfa Mosaic</th>
<th>White Mold</th>
<th>Canopy Width</th>
<th>Plant Height for Maturity</th>
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<th>% Oil (At 13% Moisture)</th>
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#### NOTATIONS

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 43. **Preliminary data.

- OUTSTANDING
- POOR
- INSUFFICIENT DATA

Symbol indicates above average resistance to: **Soybean Cyst Nematode**

All Pioneer® brand soybean products are available with Cyantraniliprole 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

#### P15A09x

2900 HEAT UNITS
- Excellent disease resistance package
- Strong SDS tolerance
- Very good field emergence

#### P15A88x

2900 HEAT UNITS
- Yield leader for maturity
- Moderate plant height and canopy width
- Peking source of SCN resistance

#### P16A13x

2925 HEAT UNITS
- Great yield potential
- Balanced agronomics
- Moderate white mould tolerance

#### P18A98x

2975 HEAT UNITS
- Strong performance
- Very good emergence and standability
- Above average white mould tolerance

#### P19A14x

2900 HEAT UNITS
- Great yield potential
- Very good SDS tolerance
- Compact plant height
- Peking source of SCN resistance

#### P21A28x

3050 HEAT UNITS
- Great yield to moisture performance
- Excellent field emergence
- Great shattering resistance
- Peking source of SCN resistance

### PEKING SCN RESISTANCE

Pioneer offers the most extensive number of varieties with Peking SCN resistance. A valuable tool to help you manage SCN resistance on your operation.
SOYBEANS

FEATURE PRODUCTS

LUMISENA™ FUNGICIDE SEED TREATMENT

Lumisena™ fungicide seed treatment provides the best protection against phytophthora for healthier, more vigorous soybean stands and higher yield potential. As part of the Lumigen™ technologies seed treatment portfolio, all Pioneer® brand soybean varieties are available treated with Lumisena in addition to a broad-spectrum fungicide package.

SOYBEANS

PIONEER® BRAND PRODUCT

Herbicide Resistance

SCN Resistance Source

Relative Maturity

Field Emergence

Phytophthora Resistance Gene

Phytophthora Field Tolerance

Sudden Death Syndrome

SCN Race 1

SCN Race 3

Aphid Resistance

Crown Width

Harvest Stability

Plant Height for Maturity

% Protein (At 13% Moisture)

% Oil (At 13% Moisture)

Hila Colour

Seed Size Range

RATINGS

P23A15x

PI88788 3100 23 7 1c 4 6 8 A 5 5 6 8 6 34 19 BR 2200-2800

P23A32x

PI88788 3100 23 7 1k 5 6 8 A 3 6 7 8** 5 34 19 BL 2450-3050

P24A80x

PI88788 3125 24 7 1k 5 6 8 6 5 8 8** 5 34 19 BL 2900-3500

P25A45x

PI88788 3150 25 7 1c 4 4 8 BA 5 3 8 6 34 19 BR 2150-2750

P25A82x

PI88788 3150 25 8 1k 4 7** 8 BA 5 3 8 6 34 19 BL 2150-2750

P25A96L

Peking 3150 25 7 1k 4** 7** 8 BA 5 3 8 6 34 19 BR 2350-2950

P27A17x

Peking 3200 27 6 1k 3 5 9 9 BA 3 6 6 5 33 20 BL 2400-3000

P28A94x

PI88788 3225 28 7 1k 4 6 9 A 3 6 6 7** 5 34.0 20 IB 2150-2750

P28A25x

PI88788 3250 29 7 1k 5 6 9 A 6 5 7 8 6 34 19 BR 2300-2900

P29A85x

PI88788 3250 29 7 1k 4 6** 9 A 3 6 6 7** 6 33 20 BL 1900-2500

P31A22x

PI88788 3300 31 7 1k 6 8 9 A 4 5 6 7** 5 34 19 BR 2250-2850

P31A958X

PI88788 3300 31 7 1k 5** 5** 8 AA 4 6** 6 7** 6 34 19 BL 2300-2900

P32A87L

Peking 3325 32 7 1k 3** 6 9 9 A 3 6 6 7** 6 33 20 BR 2250-2850

P33T72R

PI88788 3325 33 7 1k 5 5 8 A 4 5 7 7 5 33 20 BL 2550-3150

NOTES

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OUTSTANDING  POOR  INSUFFICIENT DATA  

Symbol indicates above average resistance to: Soybean Cyst Nematode
All Pioneer® brand soybean products are available with Cythion®/Ipure 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.

LUMISENA™ FUNGICIDE SEED TREATMENT
INTRODUCING the Enlist™ Weed Control System

The Enlist™ weed control system will change how you think about weed management in soybeans. Farmers will be able to purchase Pioneer® brand Enlist E3™ varieties for the 2020 season.

ENLIST E3 SOYBEANS

Enlist E3 soybeans provide high-yielding soybean genetics with industry-leading multi-mode of action herbicide tolerance.
- Three-way crop herbicide tolerance to 2,4-D, glyphosate and glufosinate
- Provides robust crop tolerance to Enlist Duo™
- Enables the use of a multi-mode of action herbicide approach against hard-to-control and resistant weeds
- Includes a stewardship initiative to promote responsible use and sustain long-term performance

ENLIST DUO™ HERBICIDE

Enlist Duo™ herbicide is a proprietary blend of glyphosate and 2,4-D choline, containing Colex-D™ Technology.
- Enlist Duo has two modes of action to provide exceptional weed control and herbicide resistance management
- With near-zero volatility and reduced potential for physical drift, Enlist Duo™ with Colex-D™ technology is designed for peace-of-mind, to land and stay on target
- Enlist Duo herbicide can be used in Enlist E3 soybeans with confidence as a pre-emergent or post-emergent herbicide
- A multi-mode of action program approach is recommended to minimize the potential for the development of resistant weeds. This includes the use at residuals and complementary effective modes of action for pre-emergent and in-crop weed control

**NOTES**

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

Additional Pioneer® brand Enlist E3™ soybean varieties will be available this fall. Talk to your local Pioneer sales representative.

Simply Better Soybeans. Learn more at enlistcanada.ca
# Herbicide Management Guide

## SOYBEANS

<table>
<thead>
<tr>
<th>Pioneer® Brand/Product</th>
<th>Herbicide Resistance</th>
<th>Relative Maturity</th>
<th>Sulfentrazone and Saflufenacil</th>
<th>Metribuzin</th>
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### 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.

** Preliminary data.

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At Pioneer, we believe in growth. Growth of crops, people and the communities we’re proud to be part of. Here’s to all the men and women who never stop growing.

#NeverStopGrowing
Our Feed Solutions Bring it All Together to Set You Apart

When it comes to forages, Pioneer has an unrivaled ability to provide livestock producers with the best products, people and solutions through every stage of silage production. The Silage Zone® resource combines proven products, unmatched support and forage management solutions to help deliver the highest quality forages for your livestock operation.

High-Performing Products
- High-performing corn silage products, including BMR
- Superior grain corn products
- High-yielding and high-quality alfalfa products
- Locally proven soybean varieties
- A range of crop-specific inoculants
- Innovative feed technologies

Forage Management Services
- Planting services to help maximize yield potential
- Growing services to provide in-season support to increase production
- Harvesting services to optimize feed quality and efficiency
- Storage services to reduce losses and maintain nutrient availability
- Feeding services to make the most out of every ration

Unmatched Expertise
Our solutions come with built-in support to help you through any situation from agronomy to nutrition. Your local Pioneer sales representative and Pioneer agronomists are backed by the expertise of dairy specialists, plus PhD and DVM-level advisors.

Pioneer.com/Canada/SilageZone

SUPERCHARGE YOUR CORN SILAGE NUTRITIONAL PERFORMANCE

With exceptional nutritional quality, Pioneer® brand corn silage products consistently lead in tonnage and starch performance in side-by-side comparisons; and they’re backed by forage know-how from your local Pioneer sales representative. Put Pioneer silage products to work on your acres.
SILAGE CORN

All Pioneer® brand corn products are available with 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.

P7861AM™
2100-2400 HEAT UNITS
Excellent silage characteristics
• Outstanding digestibility
• Impressive starch and sugar content
• Strong silage yield

P8352AMXT™
2300-2600 HEAT UNITS
Solid silage yield
• Excellent whole plant digestibility
• Reliable stalk and root strength
• Strong agronomics

P8407AM™
2400-2700 HEAT UNITS
Impressive silage yield
• Excellent digestibility scores
• Solid stalk and root strength
• Superior drought tolerance

P9377AMXT™
2500-2800 HEAT UNITS
Silage-specific product
• Exceptional silage yield
• Excellent root strength
• Very good drought tolerance

PROOF IN THE FEED BUNK
High-quality corn silage products that deliver optimal tonnage and starch performance season after season. Farmers are seeing consistent performance using our superior corn silage products, coupled with the best management practices and local experts.
All Pioneer® brand corn products are available with 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.

### Feature Products

**SILAGE CORN**

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<th>Market Segment</th>
<th>Technology Segment</th>
<th>Conventional Available in Same Genetics</th>
<th>Adapted Maturity Zone (Heat Units)</th>
<th>Stalk CRM</th>
<th>Stalk Yield</th>
<th>Grain &amp; Sugar %</th>
<th>Whole Plant Digestibility</th>
<th>Silage Quality Protein</th>
<th>Milk or Beef Per Acre</th>
<th>Silage Crude Protein</th>
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<th>Root Strength</th>
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</tbody>
</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 1 POOR 2 INSUFFICIENT DATA 3

**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.
ALFALFA VARIETIES THAT FIT YOUR ACRES

Pioneer® brand alfalfa varieties are designed with top-quality forage in mind. Built with unrivaled agronomic packages to stand up against yield limiting pests and winter stress, the mix of traits delivers excellent forage yield and quality for your operation.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Herbicide Resistance</th>
<th>Forage Yield</th>
<th>Relative Forage Quality</th>
<th>Milk Yield per Acre</th>
<th>Fat Content</th>
<th>Fall Dormancy</th>
<th>Winterhardiness</th>
<th>Disease Resistance</th>
<th>Pea Aphid</th>
<th>Standability or Lodging Resistance</th>
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</thead>
<tbody>
<tr>
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<td>8</td>
<td>4</td>
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<td>8</td>
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<td>VH</td>
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<td>VH</td>
<td>30</td>
<td>7</td>
<td>HR</td>
<td>R R R HR R R</td>
</tr>
</tbody>
</table>

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.

** OUTSTANDING  ** POOR  ** INSUFFICIENT DATA  **

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

**INOCULANTS**

<table>
<thead>
<tr>
<th>CORN FIBRE TECHNOLOGY</th>
<th>11CFT Multi-strain with L. buchneri</th>
<th>** ** *** **</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>** REGISTERED PRODUCT CLAIMS **</td>
<td></td>
</tr>
<tr>
<td>Improved dry matter intake</td>
<td>Improved neutral detergent fibre digestibility</td>
<td>Improved feed efficiency</td>
</tr>
<tr>
<td>Improved dry matter loss at feeding</td>
<td>Improved acid detergent fibre (ADF) digestibility</td>
<td>Improves nutrient conservation and fibre digestibility</td>
</tr>
<tr>
<td>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.</td>
<td>** REGISTERED PRODUCT CLAIMS **</td>
<td></td>
</tr>
<tr>
<td>Improved dry matter intake</td>
<td>Improved neutral detergent fibre (NDF) digestibility</td>
<td>Improves dry matter loss at feeding</td>
</tr>
<tr>
<td>Improved feed efficiency</td>
<td>Improved crude protein digestibility of alfalfa silage ensiled at 35%-45% dry matter</td>
<td>Improved fibre (NDF) digestibility</td>
</tr>
</tbody>
</table>

**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 ** |
| Improved dry matter intake | Improved neutral detergent fibre digestibility | Improved feed efficiency at feeding |
| Improved dry matter loss at feeding | Improved acid detergent fibre (ADF) digestibility | Improved fibre (NDF) digestibility |
| Improved dry matter loss at feeding | Improved neutral detergent fibre (NDF) | Improves nutrient conservation and fibre digestibility |
| Reduces dry matter loss at feeding | Improved crude protein digestibility of alfalfa silage ensiled at 35%-45% dry matter | Reduces dry matter loss at feeding |

**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 ** |
| Improved dry matter intake | Improved neutral detergent fibre (NDF) digestibility | Improved feed efficiency at feeding |
| Improved dry matter loss at feeding | Improved acid detergent fibre (ADF) | Improves nutrient conservation and fibre digestibility |
| Improved dry matter loss at feeding | Improved crude protein digestibility of alfalfa silage ensiled at 35%-45% dry matter | Improved fibre (NDF) digestibility |

**EXCEPTIONAL ** VERY GOOD ** GOOD

**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 Nutrivail™ Feed Technology

**INOCULANTS**

<table>
<thead>
<tr>
<th>CORN SILAGE</th>
<th>11C33 Multi-strain with fast acting L. buchneri</th>
<th>** ** *** **</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>** REGISTERED PRODUCT CLAIMS **</td>
<td></td>
</tr>
<tr>
<td>Reduced dry matter loss during ensiling</td>
<td>Reduced heating at feeding</td>
<td>Reduced dry matter loss during ensiling</td>
</tr>
<tr>
<td>Improved fibre (ADF) digestibility (soluble)</td>
<td>Improved silage protein quality (soluble)</td>
<td>Improved fibre fraction (soluble)</td>
</tr>
<tr>
<td>Improved average daily gain (soluble)</td>
<td>Improved feed efficiency (soluble)</td>
<td>Improved average daily gain (soluble)</td>
</tr>
</tbody>
</table>

**HIGH-MOISTURE CORN | 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 ** |
| Improved dry matter retention | Improved dry matter loss at feeding | Improved dry matter loss at feeding |
| Reduced heating at feeding | Improved dry matter loss at feeding | Improved dry matter loss during ensiling |

**GRASS / CEREAL | 11AFT 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 ** |
| Improved dry matter retention | Improved dry matter loss at feeding | Improved dry matter loss during ensiling |
| Reduced heating at feeding | Improved dry matter loss at feeding | Improved dry matter loss during ensiling |

**EXCEPTIONAL ** VERY GOOD ** GOOD

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SILA-BAC® BRAND INOCULANTS | 43
TOP PERFORMANCE VARIETIES FOR EVERY ACRE

Set yourself up for success with Pioneer® brand wheat. The proven lineup features leading genetics and top performance. Our wheat varieties offer superior stability and adaptability across growing regions with excellent standability, optimal height and very good lodging resistance. With our unmatched local service, we’ll help you find the best variety for your acres.

| Pioneer® Brand Product | Wheat Type | Heading Date - North | Yield for Primary Area | Test Weight | Lodging Resistance | Winter Hardiness | Race Blight | Leaf Blight | Root Rot | Root Rot | Powdery Mildew | Fusarium Head Blight | Spindle Sheath Mosaic Virus | Soil Borne Mosai Virus | Flour Yield Score | Flour Softness Score | Head Type |
|------------------------|------------|----------------------|------------------------|-------------|-------------------|-----------------|-------------|------------|---------|---------|----------------|----------------------|------------------------|------------------------|----------------|---------------------|----------------|----------|
| 25R74                  | Soft red   | -2                   | 9                      | 6           | 6                 | 3               | 5           | 6          | 8       | 6       | 7               | 6                   | 6                     | 5                      | Awned            |                     |                   | Awned               |
| 25R61                  | Soft red   | 0                    | 9                      | 7           | 6                 | 6               | 6           | 5          | 7       | 4       | 6               | 7                   | 6                     | 7                      | 5                     | Awned               |                     | Awned               |
| 25R34                  | Soft red   | 0                    | 8                      | 5           | 5                 | 7               | 5           | 5          | 8       | 4       | 4               | 5                   | 6                     | 7                      | 8                     | Awned               |                     | Awned               |
| 25R40                  | Soft red   | 0                    | 9                      | 7           | 7                 | 5               | 2           | 5          | 8       | 4       | 5               | 6                   | 6                     | 5                      | 7                     | Awned               |                     | Awned               |
| 25R46                  | Soft red   | 0                    | 8                      | 8           | 7                 | 6               | 5           | 4          | 2       | 5       | 7               | 7                   | 7                     | 3                      | 6                     | Awned               |                     | Awned               |
| 25W38                  | Soft white | 0                    | 9                      | 5           | 8                 | 6               | 3           | 7          | 6       | 8       | 9               | 6                   | 8                     | 7                      | 9                     | Awned               |                     | Awned               |

NOTES

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

**OUTSTANDING**  **POOR**  **INSUFFICIENT DATA**

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 2018 harvest and were the latest available at time of printing. Some scores may change during the 2019 season. Contact your Pioneer sales representative before planting for the latest trait rating information.
CANOLA WITH TOP-END PERFORMANCE

Pioneer® brand canola hybrids are bred to give you a competitive advantage by consistently delivering outstanding disease resistance with top-end performance. Our product lineup features early growth, improved standability and excellent harvestability with built-in proprietary traits.

<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>Clubroot Resistance</th>
<th>Blackleg</th>
<th>Blackleg</th>
<th>Fusarium Wilt</th>
<th>Early Growth</th>
<th>Green Seed Content</th>
<th>Standability</th>
<th>Sqaure Cut</th>
<th>Plant Height</th>
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</tbody>
</table>

RATINGS *

NOTES

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

OUTSTANDING  POOR  INSUFFICIENT DATA

NEW CANOLA HYBRID WITH LIBERTYLINK® TRAIT

Pioneer® brand canola genetics are now available with the LibertyLink® trait. Bringing together improved yield, proven weed control and proprietary Pioneer Protector® traits.
5 STRESS EMERGENCE
Herculex ® insect protection technology by Dow AgroSciences

2 TECHNOLOGY SEGMENT: AM
IMPORTANT: Results may vary slightly, depending upon the level of insect (ECB and HX1, LL, RR2. Contains a resistance to European corn borer; very good resistance to black ribboned European corn borer; and high resistance to GYCB. – The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer; very good resistance to black ribboned European corn borer; and high resistance to YGCB. – The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer; very good resistance to black ribboned European corn borer; and high resistance to YGCB. – The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer; very good resistance to black ribboned European corn borer; and high resistance to YGCB. – The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer; very good resistance to black ribboned European corn borer; and high resistance to YGCB. – The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer; very good resistance to black ribboned European corn borer; 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INOCULANT FOOTNOTES

IMPORTANT: Information and ratings are based on combinations with other Silo-Bac® product inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additives Research, based on average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future results. Product responses are variable and subject to any number of environmental and management conditions. 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 Silo-Bac® brand product.

PLANT HEIGHT: Based on over-the-top applications of labeled glyphosate technology when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. For post-emergent applications of Roundup without crop injury or stress (low herbicide label), labelled herbicides should only be used over the top of those hybrids and varieties that carry the Roundup Ready® gene (RR) and/or carry the Roundup® gene (RR). Herbicides will kill crops that are not tolerant to glyphosate.

HERBICIDE TOLERANT TRAIT: Hybrids with the Roundup Ready® gene (RR) are tolerant to labelled rates of Roundup® branded herbicides. This technology allows for post-emergent applications of Roundup without crop injury or stress (low herbicide label). Labeled Roundup herbicide should only be used over the top of these hybrids and varieties that carry the Roundup Ready designation. Hybrid with the CLEARFIELD® trait (K1) is tolerant to labelled rates of Beyond®, Odyssey® or Absolute® herbicides. This technology allows for post-emergent applications of these labeled herbicides without crop injury or stress (low herbicide label). Labeled herbicides should only be used over the top of these hybrids and varieties that carry the CLEARFIELD trait. Genetic® and Roundup Ready® are registered trademarks used under license from Monsanto. CLEARFIELD® is a registered trademark of BASS. Hybrids with the LibertyLink® gene (GL1) are resistant to Liberty herbicide. LibertyLink® and the Water-Droplet Design are trademarks of BASF.
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