NEVER ONE TO BACK DOWN FROM A CHALLENGE.

YOU’LL FACE DOUBTERS ALONG THE PATH YOU’RE BLAZING, BUT WITH PIONEER THERE IS NO DOUBT. YOUR PIONEER SALES REPRESENTATIVE IS HERE TO BACK YOU UP WITH LOCAL AGRONOMIC SUPPORT AND THE BEST GENETICS FROM OUR WORLD-LEADING INNOVATION PROGRAM TO HELP YOU GROW FURTHER THAN EVER BEFORE. LET’S BUST THROUGH.

PIONEER.COM/CANADA
Win every year. Reliable performance.

You need to win every year. Our genetic predictions, along with testing in multiple locations, means reliable performance year over year.

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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 48.
Featured Pioneer® Brand Grain Corn Products

P7211AM™
2050 HEAT UNITS
Proven performer
• Shorter plant with high yield potential
• Very good test weight and grain quality
• Above average stalk strength

P7574AM™
2150 HEAT UNITS
High yield potential for maturity
• Excellent agronomics
• Very good test weight and grain quality
• Average root and stalk strength

P7955AM™
2300 HEAT UNITS
Early product with good grain quality
• Excellent agronomics
• Very good test weight
• Above average root and stalk strength

P8234AM™
2400 HEAT UNITS
Above average agronomics
• Excellent stalk and root strength
• Very good grain dry down
• Good drought tolerance

P8294AM™
2400 HEAT UNITS
Improved test weight for maturity
• Excellent stalk and root strength
• Tall plant

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.

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 E 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 E pesticides. For more information, talk with your Pioneer sales representative.
### Featured Pioneer® Brand Grain Corn Products

#### P8407AM™
- **2650 HEAT UNITS**
- **Outstanding yield potential with excellent agronomics**
- **Excellent disease resistance package**
- **Very good root and stalk strength**
- **Strong tolerance to Northern Leaf Blight**

#### P8537Q™
- **2450 HEAT UNITS**
- **Excellent disease resistance package**
- **Very good root and stalk strength**
- **Strong tolerance to Northern Leaf Blight**

#### P8736AM™
- **2575 HEAT UNITS**
- **High yield potential**
- **Tall plant**
- **Significant drought tolerance**
- **Above average tolerance to Northern Leaf Blight**

#### P8820Q™
- **2450 HEAT UNITS**
- **High yield potential**
- **Tall plant**
- **Significant drought tolerance**
- **Above average tolerance to Northern Leaf Blight**

#### P8820AM™
- **2600 HEAT UNITS**
- **Leader platform for maturity**
- **Excellent stability**
- **Proven agronomics for wide variety of acres**
- **Very good Northern Leaf Blight tolerance**

#### P8859AM™
- **2600 HEAT UNITS**
- **Leader platform for maturity**
- **Excellent stability**
- **Proven agronomics for wide variety of acres**
- **Above average tolerance to Northern Leaf Blight**

#### P9188AM™
- **2650 HEAT UNITS**
- **Leader platform for maturity**
- **Excellent stability**
- **Proven agronomics for wide variety of acres**
- **Very good Northern leaf blight tolerance**

### RATINGS

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<th>Technology Segment</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.

- **OUTSTANDING**
- **GOOD**
- **INSUFFICIENT DATA**

These products are approved for cultivation in Canada and grain from these products has received approval in several importing countries. Single events from these products are approved for import into the European Union (EU), however stacked events are not approved. For more information see page 48, footnote 3.

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 E pesticide under Ontario Regulation 45/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Poncho® 1250 + VOTiVO™ / clothianidin) which are Class E pesticides. For more information, talk with your Pioneer sales representative.

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**Your Pioneer sales representative, backed by a team of local agronomists, is ready to help you select the right products and push the boundaries to bring your operations to the next level.**
## Featured Pioneer® Brand Grain Corn Products

### P9233AM™
- **2725 HEAT UNITS**
- Great yield for maturity
  - Balanced agronomics for a variety of environments
  - Earlier silking for maturity
  - Good stability in drought situations

### P9301AM™
- **2750 HEAT UNITS**
- Yield potential plus agronomics
  - Good foliar disease package
  - Good stability
  - Strong test weight

### P9535AM™
- **2800 HEAT UNITS**
- High yield potential for maturity
  - Versatility across soils and management strategies
  - Reliable test weight
  - Above average drought tolerance

### P9608Q™
- **2850 HEAT UNITS**
- Qrome® product with enhanced yield
  - Above-and—below insect protection for corn on corn
  - Leader in test weight at maturity
  - Strong standability traits

### P9823Q™
- **2925 HEAT UNITS**
- Strong yield potential
  - New Qrome® triple stack
  - Very competitive drought tolerance
  - Favourable root strength

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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.

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

These products are approved for cultivation in Canada and grain from these products has received approval in several importing countries. Single events from these products are approved for import into the European Union (EU) however stacked events are not approved. For more information see page 48, footnote 3.

All Pioneer® brand corn products are available with Lumivox® insecticide seed treatment which offers excellent protection against key early season pests. Lumivox® is not considered a Class E pesticide under Ontario Regulation 45/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high rate seed treatment (Bonito® 1250 + VOTiVO® / clothianidin) which are Class E pesticides. For more information, talk with your Pioneer sales representative.

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**MAKE EVERY ACRE COUNT**

Corn herbicides from Corteva Agriscience fit the way you grow corn so you can spend less time worrying about unwanted, yield-robbing weeds. Our corn herbicides offer dependability and application flexibility to deal with the unexpected.
**Featured Pioneer® Brand Grain Corn Products**

**P9946AM™**
- **2950 HEAT UNITS**
- Optimum® AcreMax® Leptra™ insect protection
  - Built-in protection from western bean cutworm
  - Solid agronomics
  - Above average grain quality and test weight

**P9998AM™**
- **3000 HEAT UNITS**
- Hero product for maturity
  - Above average root and stalk strength
  - Great yield to moisture performance
  - Above average test weight

**P0035AM™**
- **3000 HEAT UNITS**
- New product with Optimum® AcreMax® trait
  - Delivers increased yield potential
  - Excellent drought tolerance with Optimum® AQUAmax® trait
  - Above average agronomics

**P9946AML™**
- **2950 HEAT UNITS**
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**P9998AML™**
- **2950 HEAT UNITS**
- AQ
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**P9998AM™**
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- AQ
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**P0035AM™**
- **3000 HEAT UNITS**
- AQ
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**P0035A™**
- **2975 HEAT UNITS**
- AQ
  - 3000 100 98 6 6 5 8 9 8 5 5 5 3 6 5 6 5 MP 4 4 5

**P0075AM™**
- **3000 HEAT UNITS**
- Conventional
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**P0075AML™**
- **3000 HEAT UNITS**
- AQ
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**P0075Q™**
- **3000 HEAT UNITS**
- AQ
  - 3000 103 101 104 6 8 5 6 9 5 6 3 6 4 4 5 MP 4 4 4

**P0157AM™**
- **3050 HEAT UNITS**
- New product with Optimum® AcreMax® trait
  - Delivers increased yield potential
  - Excellent drought tolerance with Optimum® AQUAmax® trait
  - Above average agronomics

**P0157AMXT™**
- **3050 HEAT UNITS**
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  - 3050 101 102 102 5 7 5 4 9 5 6 4 7 4 5 5 MP 4 4 4

**P0306AM™**
- **3100 HEAT UNITS**
- Great yield to moisture performance
  - Exceptional root strength
  - Stable performance across a wide geography

**P0306Q™**
- **3100 HEAT UNITS**
  - 3100 103 101 104 6 8 5 6 9 5 6 3 6 4 4 5 MP 4 4 4

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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 E pesticide under Ontario Regulation 63/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Poncho® “12G” / VOTiVO™ / clothianidin) which are Class E pesticides. For more information, talk with your Pioneer sales representative.

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**CROP PROTECTION SOLUTIONS AT YOUR FINGERTIPS**
The new Corteva Agriscience 2021 Field Guide app is a straightforward and easy tool to help choose the right herbicides, insecticides and fungicides to protect your crop and maximize your profitability.
OUTSTANDING | POOR | INSUFFICIENT DATA
---|---|---

1. P0404AM™
2. P0404AQ™
3. P0414AM™
4. P0434AM™
5. P0487AQ™
6. P0506AQ Conventional
7. P0506AM™
8. P0720AM™
9. P0720AQ™
10. P0806AM™
11. P1197AM™
12. P1197AMXT™

### Featured Pioneer® Brand Grain Corn Products

**P0404AM™**
- **3125 HEAT UNITS**
- **New AcreMax® product with high yield potential**
  - Above average stalks and roots
  - Exceptional drought tolerance
  - Very competitive test weight

**P0487AQ™**
- **3125 HEAT UNITS**
- **Grome® product with high yield potential**
  - Exceptional drought tolerance via Optimum® AQUAmax® trait
  - Strong stalks and roots
  - Above average tolerance to Northern leaf blight

**P0506AM™**
- **3150 HEAT UNITS**
- **Excellent yield performance**
  - Very good plant health
  - Defensive product with stable yields across soil types
  - Outstanding drought tolerance

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

**P0806AM™**
- **3250 HEAT UNITS**
- **Product with strong yield potential**
  - Solid test weight
  - Sound agronomics
  - Above average stalk and root strength

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

#### Delegate™
- **Jemvelvaactive**

**INSECTICIDE**

- **Rapid Knockdown and Long Lasting Control of Western Bean Cutworm and European Corn Borer in Corn.**

#### Delegate offers:
- Fast and effective control of Western Bean Cutworm and European corn borer by either contact or ingestion
- Important Integrated Pest Management tool with its unique Group 5 mode of action
- Low use rates
- Transaminar activity provides extra protection against insects that feed from the underside of leaves
- Long-lasting residual control
- Favourable environmental profile with minimal effects on beneficials
Pioneer® brand Qrome® corn products deliver proven insect protection and agronomic performance to help unlock yield potential.

Our next generation of seed corn products are here.

Pioneer® brand Qrome® products feature proprietary technology compatible with a broad range of our elite germplasm, giving growers more high-performance product options. Qrome products provide proven above-and-below-ground insect protection from pests like European corn borer and corn rootworm. Combined with industry leading seed treatments on high yielding products, Qrome is designed to help you get more out of each acre.

Advanced above and below ground trait technology

Proprietary molecular stack technology in Qrome products offers improved integration across a broad range of Corteva Agriscience germplasm. Along with a more efficient breeding process, this means more high-performance above and below ground insect control product options.

Enhanced Yield Result

In extensive research testing across a broad range of Corteva’s genetic platforms, Qrome delivered a significant yield improvement. In 2018 and 2019 on-farm trials, Qrome products averaged an 11.7 bu/ac¹ advantage over all competitive products tested.

Trusted performance and protection

Qrome products include a unique molecular stack of proven Bt proteins from the Herculex® I and Herculex® RW traits, providing enhanced overall agronomic performance.

Along with Corteva’s most advanced technology for above-and-below-ground insect protection, Qrome products deliver outstanding control with two modes of action against corn rootworm.

11.7 BU/AC¹

AVERAGE ADVANTAGE

over all competitive products tested during 2018 and 2019 on-farm trials.

Protected with Qrome technology

Corteva corn rootworm research trial: Johnston, IA

1 2018 and 2019 Qrome® product performance data is based on the average of 489 locations in the United States and Canada through Nov. 13, 2019 for applicable products with Canadian maturity. Comparisons are against all competitors within a +/- 3 CRM with a minimum of 5 comparisons. 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 predictors of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION.

Look for a Pioneer® brand Qrome field near you.

Talk to your local Pioneer sales representative to learn more about Qrome products or visit: pioneer.com/Canada
Lumivia™

INSECTICIDE SEED TREATMENT

Key benefits
- Outstanding protection against key early season corn pests
- Provides seedling protection to develop uniform and healthy stands that maximize yield potential
- Simplifies your seed treatment decision by delivering the control of key pests
- Offers a favourable environmental profile

Lumivia™ insecticide seed treatment delivers excellent broad-spectrum protection on key early season corn insect pests.

Protection Against Key Early Season Insect Pests

- Wireworms
- European Chafer, White Grub & June Beetle
- Seedcorn Maggot*
- White Grubs

LumiGEN® Seed Treatments: Built for Your Success with our Genetics

The LumiGEN mark of assurance means you get seed treatments:
- DESIGNED for our genetics
- VERIFIED on our genetics
- PROVEN in the field with our genetics

A mark of assurance in seed treatments.

You choose a seed treatment package to help assure a successful season. In turn, you should feel assured that those seed treatments perform as expected, and work well with the genetics you’re planting.

LumiGEN seed treatments are exclusive to the seeds brands of Corteva Agriscience, and represents the value of the seed applied technologies available on Pioneer® brand genetics.

Get the story on our LumiGEN products:
Innovation at Corteva Agriscience

OUR PURPOSE:
To enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

For us, growth is more than just a mindset.

Our R&D organization strives to be the best at designing, discovering and developing innovations that create value for farmers and deliver consumer benefits in planet-friendly ways.

Key Sources of Differentiation

Germlasm
Developed through 90-plus years of expertise, our germlasm library is unparalleled in its breadth and depth and is focused squarely on helping farmers improve their performance and profitability.

Targeted Breeding
Targeted breeding tools such as CRISPR enable us to explore the development of improved crops in years instead of decades, both in our labs and by licensing our industry-leading intellectual property to other innovators.

Digital Tools
We combine the latest advances in technologies, artificial intelligence, data analytics and agronomic insights to give farmers timely, actionable data they can use to make more informed decisions and make their operations less complex.

Environmental Impact and Sustainability
With more Green Chemistry Awards than any other company, we’re building on our industry leadership in natural and naturally derived products by continuing to research new ways of helping farmers conserve the land that sustains them.

Integrated Solutions
Our industry-leading capabilities across seeds, crop protection and digital tools enable us to provide solutions that together create more value for farmers than any solution could on its own.

QUICK FACTS
Our open and agile agriculture research organization brings together worldwide resources:

2,000 scientists and researchers
3 innovation hubs
• Johnston, Iowa
• Indianapolis, Indiana
150+ multi-platform R&D facilities in 32 countries
100+ crops

INDUSTRY LEADING CAPABILITIES

Seed
• Genomics and breeding systems
• Biotech
• Advanced phenotyping

Crop Protection
• Chemistry discovery
• Formulation and process chemistry
• Natural products

Digital Tools
• Data analytics
• Predictive agriculture tools
• Farm management software

CLEAR INNOVATION PRINCIPLES

Market driven
Disciplined and accountable
Built to differentiate
Global yet local
Focused on productivity

Defend all around. Best defensive trait packages.

Delivering the highest yield potential, best defensive package and most herbicide-tolerant trait options to your farm with Pioneer® brand soybeans.
Soybeans herbicides from Corteva Agriscience deliver the powerful control needed to ease your weed anxieties, help you be a better steward of the land and improve your operation. Explore how our solutions can help you manage your fields for better productivity and yield opportunity.

### Regimentation

#### 2600 HEAT UNITS
- **P03A11x™**
  - Strong early season emergence
  - Moderate plant height with above average canopy width
  - Moderate white mould tolerance

#### 2675 HEAT UNITS
- **P05A35x™**
  - Solid variety with good agronomics
  - Average white mould tolerance
  - Very good harvest standability and anti-shattering

#### 2700 HEAT UNITS
- **P07A18x™**
  - Exciting yield potential
  - Very consistent performance
  - Above average white mould tolerance

#### 2750 HEAT UNITS
- **P09A62x™**
  - Excellent yield potential
  - Respectable white mould tolerance
  - Solid harvest standability

#### 2825 HEAT UNITS
- **P12T94E™**
  - Strong early season emergence
  - Respectable white mould tolerance
  - Solid harvest standability

---

### Table: Pioneer® Brand Soybean Products

<table>
<thead>
<tr>
<th>Variety</th>
<th>Heat Units</th>
<th>Relative Maturity</th>
<th>Field Emergence</th>
<th>Phytophthora Resistance</th>
<th>SCN Resistance Source</th>
<th>Phytophthora Field Tolerance</th>
<th>Sudden Death Syndrome</th>
<th>SCN Race 1</th>
<th>SCN Race 3</th>
<th>White Mould</th>
<th>% Protein (At 13% Moisture)</th>
<th>% Oil (At 13% Moisture)</th>
<th>Canopy Width</th>
<th>Harvest Standability</th>
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### Notes

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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 69

<table>
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<th>OUTSTANDING</th>
<th>POOR</th>
<th>INSUFFICIENT DATA</th>
<th>NEW</th>
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SYMBOLS: Symbol indicates above average resistance to: Soybean Cyst Nematode. All Pioneer® brand soybean products are available with Cytrantrinoliprole insecticide seed treatment which offers excellent protection against key early season pests. Seed treated with this insecticide seed treatment is not considered a Class 6 pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.
2950 HEAT UNITS
- New performance level for maturity
- Above average SDS tolerance
- Dependable harvest standability

P17A51X™
- Above average early season emergence
- Very good canopy width
- Good harvest standability

Pioneer offers the most extensive number of varieties with Peking SCN resistance. A valuable tool to help you manage SCN resistance on your operation.
**New Enlist E3™ variety**
- Very good field emergence
- Strong harvest standability

**P24T76E™**
- Brings Peking source of SCN tolerance to maturity
- Strong early season emergence
- Moderate canopy width

**P25A68X™**
- Excellent harvest standability
- Top yield potential
- Excellent stability

**P26A34X™**
- New variety with exceptional yield performance
- Strong SDS tolerance
- Stacked phytophthora resistance genes 1K,3A for superior protection

---

**Acapela™**
- One-of-a-Kind Protection: Acapela protects against white mould, Asian soybean rust, frogeye leafspot and septoria brown spot in soybeans.
- Unique Movement Properties: Acapela is a broad-spectrum fungicide that quickly and efficiently surrounds, penetrates and protects the leaf and stem.
- Exceptional Performance: Acapela provides outstanding disease management for healthier crops and higher yield potential.

---

**Featured Pioneer® Brand Soybean Products**

<table>
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<tr>
<th>Product</th>
<th>Heat Units</th>
<th>Relative Maturity</th>
<th>Field Emergence</th>
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**NOTES**
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Enlist™ and Enlist™ 1 are powerful tools as part of the Enlist™ Weed Control System

- Colex-D technology helps ensure that Enlist herbicides land and stay on target
- Wide window of application from pre-plant burndowns up to the R2 stage (full flower)
- Designed to be used with complimentary herbicides as part of a Program Approach to manage a wide range of hard-to-control and resistant weeds like:
  - Canada fleabane
  - Common Lamb's-quarters
  - Common ragweed
  - Eastern Black Nightshade
  - Giant ragweed
  - Pigweed species
  - Velvetleaf
  - Waterhemp

**Program approach**

**Enlist Duo™ and Enlist™ 1**

- **WHY USE THE ENLIST WEED CONTROL SYSTEM?**
  - A system with new traits providing herbicide tolerance in soybeans and corn
  - Herbicides built on an improved formulation of 2,4-D that lands and stays on target, enabling growers to manage hard-to-control and resistant weeds
  - Enlist Stewardship resources that support the use of multiple modes of action to manage resistant weeds, provide training, and promote responsible and sustainable use

**WHY USE ENLIST E3 SOYBEANS?**

- Ensures high-yielding soybean genetics and industry-leading triple-mode of action herbicide tolerance
- Excellent crop tolerance enabling applications up to the R2 growth stage

**Enlist E3™ Soybeans**

- High-yielding soybean genetics with industry-leading triple-mode of action herbicide tolerance
- Improved crop tolerance enabling applications up to the R2 growth stage

**Enlist Duo™ and Enlist™ 1**

- **Complete Convenience.**
  - Enlist Duo provides the convenience of both 2,4-D choline and glyphosate in one formulation for control of grasses and broadleaf weeds including hard-to-control and resistant weeds.

- **Flexibility and Choice.**
  - Enlist 1, a stand-alone 2,4-D choline formulation, provides the flexibility to tank-mix and adjust the rates of glyphosate or Liberty® 200 SN (glufosinate) for hard-to-control and resistant weeds.

**COLEX-D™ Technology**

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<th>WHAT GOES INTO IT</th>
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<td>2,4-D choline with Colex-D Technology</td>
<td>Near zero volatility, Minimal potential for physical drift, Low odour, Improved handling characteristics</td>
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**Enlist™ Weed Control System**

- **Enlist Duo™ and Enlist™ 1** are powerful tools as part of the Enlist™ Weed Control System
- **WHY USE THE ENLIST WEED CONTROL SYSTEM?**
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**COLEX-D™ Technology**

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# Lumiderm™ + Lumisena™: The Perfect Combo for Soybean Protection

## Lumiderm™

### INSECTICIDE SEED TREATMENT

**Key Benefits**
- Broad spectrum protection from early season insect pests including bean leaf beetle and soybean aphid
- Excellent seedling protection delivers uniform, healthy stands to maximize yield potential
- A new mode of action with a favourable environmental profile
- Simplifies your seed treatment decision

### Protection against early season insects
- Lumiderm contains a unique Group 28 insecticide
- Provides soybean seedlings with extended protection against bean leaf beetle and soybean aphids

## Lumisena™

### FUNGICIDE SEED TREATMENT

**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
- A new mode of action with a favourable environmental profile
- Simplifies your seed treatment decision

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

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### Lumiderm Research Authorization Results

**Lumiderm™** and **Lumisena™** Strip Trial
Kelburn Farm, MB

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**Notes**
- Adequate Tolerance
- Requires careful management
- Crop response warning
- Insufficient data

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Visit us at
SoybeanProtection.corteva.ca

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**Herbicide Management Guide**

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**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

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**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

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**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity

**Herbicide Sensitivity Rating**

Pioneer® Brand Product

**Herbicide Resistance**

Relative Maturity
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.

Forage Products With Your Livestock In Mind

**Dual-Purpose Corn Hybrids**

Pioneer® brand dual-purpose corn hybrids for silage give you the flexibility to feed out as high energy and high tonnage silage or to harvest as grain. Pair best-in-class hybrids with the world-class team of Pioneer agronomists and nutritionists to optimize your operation from seed to bunker.

- Proven Genetics with Reliable Agronomics
- High Starch Content
- Dry Matter Yield.

**BMR Corn Silage**

Pioneer® brand brown mid-rib (BMR) corn hybrids deliver higher digestibility and milk production to help you maximize your profitability.

**Inoculants**

Make the most of your forage crops with Sila-Bac® brand inoculants. Designed to maximize forage performance, our crop-specific inoculants improve fermentation, aerobic stability and fibre digestibility.

**Alfalfa**

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.

**HarvXtra® Technology**

Pioneer® brand alfalfa varieties with HarvXtra® and Roundup Ready® technologies contain less lignin in each plant, which boosts relative forage quality (RFQ) by 10 to 15 percent and delivers a higher energy forage ration. With strong agronomics to support the stand, our varieties offer a higher-quality hay at every cutting.
Introducing Pioneer® brand BMR products

If higher milk production is what you’re after, there’s no comparison. Pioneer® brand BMR corn silage offers outstanding fibre digestibility, which leads to higher feed consumption among high producing cows. It’s high-quality for better cow performance.

Higher Digestibility for Peak Performance

- BMR hybrids have less lignin content and average 7-percentage points higher 24 hour fibre digestibility than competitor’s non-BMR corn silage.
- When fed to high producing dairy cows, BMR corn silage can increase dry matter intake which may result in great milk production.

Better Overall Health & Milk Production

- Feeding high quality, high forage diets can help improve the overall health of a dairy herd.
- University of Wisconsin-Madison studies* show that using BMR versus standard corn silage can increase milk production by 1.5 kgs per day.
- BMR hybrids have lower levels of undigested fibre (uNDF) than standard corn silage hybrids – a critical attribute for improving forage intake and dairy cow performance.

Improved Forage Yield Potential

- Recent genetic advancements and new BMR hybrid offerings have improved forage yield potential, while enhancing drought tolerance, disease resistance, and standability for more reliable forage production.
- To capture the improved yield and quality potential, plan to manage BMR hybrids using the very best planting and agronomic practices available.

Our team of forage experts are available for on-farm support all season. To learn more about the best BMR options for your operation contact your local Pioneer sales representative or visit pioneer.com/Canada/SilageZone

### Pioneer® brand BMR hybrids

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<th>Hybrid</th>
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<tr>
<td>P0677AMX</td>
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1 Comparing fibre digestibility (NDFD-30hr) of BMR hybrids and standard corn silage hybrids in university corn silage hybrid comparison trials in WI, PA, NY (31 site-years).

Top Feed. High-quality with high yield potential.

For top performance, you need high-quality, high-yielding silage. With unrivaled selection and proven genetics, our silage products outperform to match your needs and maximize your production.
### Featured Pioneer® Brand Silage Corn Products

#### P7527AM™
- 2000-2300 HEAT UNITS
- Excellent early maturity silage option
- Exceptional silage yield potential
- Outstanding starch and sugar percentage
- Impressive fibre digestibility

#### P8294AM™
- 2500-2800 HEAT UNITS
- New product with good silage yield potential
- Excellent dual-purpose product
- Outstanding milk per acre
- Tall plant

#### P9377AMXT™
- 2500-2800 HEAT UNITS
- New early maturity BMR product
- Brings higher fibre digestibility
- Excellent stalk strength
- Requires 5% block refuge

#### P9482SXE™
- 2500-2800 HEAT UNITS
- New early maturity BMR product
- Higher whole plant digestibility
- Floury starch with above average starch and sugar percentage
- Requires 5% block refuge

#### P9648SX™
- 2500-2800 HEAT UNITS
- New early maturity BMR product
- Higher whole plant digestibility
- Floury starch with above average starch and sugar percentage
- Requires 5% block refuge

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### RATINGS

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<th>Milk Per Ton</th>
<th>Stalk Strength</th>
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<th>Drought Resistance</th>
<th>Ear Height</th>
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### NOTES

- These products are approved for cultivation in Canada and grain from these products has received approval in several importing countries. Single events from these products are approved for import into the European Union (EU); however stacked events are not approved. For more information see page 48, footnote 3.
- All Pioneer® brand corn products are available with Lumivex® insecticide seed treatment which offers excellent protection against key early season pests. Lumivex® is not considered a Class E pesticide under Ontario Regulation 63/09 of the Pesticides Act. Select Pioneer® brand products are available treated with high-rate seed treatment (Bonide® 1250 + VOTIVO™ / clothianidin) which are Class E pesticides. For more information, talk with your Pioneer sales representative.

---

### PROOF IN THE FEED BUNK

High-quality Pioneer® brand corn silage products 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.
### Featured Pioneer® Brand Silage Corn Products

#### P9946AML™
- **2700–3000 HEAT UNITS**
- Outstanding silage yield potential
  - Built-in protection from western bean cutworm
  - Excellent milk per acre
  - Solid agronomics

#### P9823Q™
- **2700–3000 HEAT UNITS**
- New Grome™ product for corn-on-corn acres
  - Excellent silage yield potential
  - Outstanding milk per acre
  - Leading fibre digestibility

#### P0256AMXT™
- **2800–3100 HEAT UNITS**
- Silage-specific product with excellent quality
  - Exceptional fibre digestibility and starch content
  - Very good forage quality
  - Superb milk/beef per ton

#### P0434AM™
- **2800–3100 HEAT UNITS**
- Proven BMR product
  - Strong agronomics with the BMR gene
  - Superb digestibility
  - Excellent milk per ton

#### P0242AMXT™
- **2800–3100 HEAT UNITS**
- Excellent dual-purpose product
  - Exceptional drought tolerance with AQUAmax® trait
  - Outstanding milk per ton
  - Impressive starch and sugar percentage

### NOTES

*These products are approved for cultivation in Canada and grain from these products has received approval in several importing countries. Single events from these products are approved for import into the European Union (EU); however stacked events are not approved. For more information see page 48, footnote 2.

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 E pesticide under Ontario Regulation 65/09 of the Pesticides Act. Select Pioneer® brand corn products are available treated with high-rate seed treatment (Poncho® 1250 + VOTivo™ / clothianidin) which are Class E pesticides. For more information, talk with your Pioneer sales representative.

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### BETTER MILK PRODUCTION

If higher milk production is what you’re after, there’s no comparison. Pioneer® brand BMR corn silage offers outstanding fibre digestibility, which leads to higher feed consumption among high producing cows. It’s high-quality silage for better cow performance.
You need high-quality. Every cut.

Alfalfa is no longer a one-size-fits-all crop. Pioneer® brand alfalfa is 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.

| Pioneer® Brand/Product | Forage Yield | Relative Forage Quality | Milk Yield per Acre | Fall Dormancy | Winterhardiness Index | Disease Resistance | Root Rot | Vascular Stem Wilt | Aphomia Root Rot | Aphanomyces Root Rot | Phytophthora Root Rot | Fall-cut Support | Harvest Index | Alvus | Consol | Resistance |
|------------------------|--------------|------------------------|---------------------|--------------|----------------------|-------------------|---------|-------------------|------------------|---------------------|---------------------|------------------|---------------|--------|
| 54Q16                  | 8            | 9                      | 8                   | 8            | 9                    | 9                 | 9       | 9                 | 9                | 9                   | 9                   | 9                | 7             | 8       |
| 54Q14                  | 7            | 8                      | 7                   | 4            | 8                    | 9                 | 9       | 9                 | 9                | 9                   | 9                   | 9                | 7             | 8       |
| 54HVX41*               | 7            | 9                      | 9                   | 9            | 4                   | 8                 | 8       | 8                 | 8                | 8                   | 9                   | 9                | 7             | 6       |
| 54HVX42*               | 7            | 9                      | 9                   | 9            | 4                   | 8                 | 8       | 8                 | 9                | 8                   | 9                   | 9                | 7             | 7       |

**FORAGE QUALITY AND LODGING RESISTANCE**

**FORAGE QUALITY**

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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.

* 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

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<td>• Improves crude protein digestibility of alfalfa silage ensiled at 35%-45% dry matter</td>
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<td>• Reduces dry matter loss at feeding</td>
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<th>HIGH-MOISTURE CORN</th>
<th>1189</th>
<th>Multi-strain with fast acting L. buchneri</th>
<th>** *** **</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGISTERED PRODUCT CLAIMS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improves dry matter retention</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Increases dry matter intake, overall daily gain and feed efficiency in beef</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved feed efficiency of growing-finishing beef cattle when used as directed on high-moisture ear corn harvested between 30%-40% moisture</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RAPID REACT. AEROBIC STABILITY</th>
<th>1174</th>
<th>Basic fermentation product which rapidly lowers silage pH, conserving valuable crop sugars while reducing protein degradation</th>
<th>** • **</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGISTERED PRODUCT CLAIMS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved silage protein quality (soluble)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved fibre (ADF) digestibility (soluble)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved average daily gain (soluble)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved feed efficiency (soluble)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved fibre fraction (soluble)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CORN SILAGE</th>
<th>1174</th>
<th>Basic fermentation product which rapidly lowers silage pH, conserving valuable crop sugars while reducing protein degradation</th>
<th>** • **</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGISTERED PRODUCT CLAIMS</strong></td>
<td></td>
<td></td>
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<tr>
<td>• Improved silage protein quality (soluble)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>• Improved fibre (ADF) digestibility (soluble)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved average daily gain (soluble)</td>
<td></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ALFAFRA SILAGE</th>
<th>11H50</th>
<th>Improves alfalfa silage nutritional value by rapidly lowering pH to conserve sugars. Significantly reduces protein degradation in alfalfa silages.</th>
<th>** • • **</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGISTERED PRODUCT CLAIMS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improved dry matter digestibility</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### RATINGS

<table>
<thead>
<tr>
<th>CORN FIBRE TECHNOLOGY</th>
<th>11CFT</th>
<th>Multi-strain with L. buchneri</th>
<th>** • • •**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGISTERED PRODUCT CLAIMS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<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></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RAPID REACT. AEROBIC STABILITY</th>
<th>1174</th>
<th>Basic fermentation product which rapidly lowers silage pH, conserving valuable crop sugars while reducing protein degradation</th>
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<td>• Improved average daily gain (soluble)</td>
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</tr>
</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 50.
You need superiority. Best-in class.

Built with superior winterhardiness and disease resistance, Pioneer® brand wheat delivers best-in-class yield potential. Our diverse lineup of wheat varieties offers market-leading agronomic traits to fit your needs. Our wheat varieties offer superior stability and adaptability across growing regions with excellent standability, optimal height and very good lodging resistance.

### WHEAT

| Wheat Type | Heading Date - North | Yield for Primary Area | Test Weight | Lodging Resistance | Winterhardiness | Plant Height | Leaf Blight | Leaf Rust | Stripe Rust | Powdery Mildew | Fusarium Head Blight | Spindle Streak Mosaic Virus | Soil-Borne Mosaic Virus | Flour Yield Score | Flour Softness Score | Head Type |
|------------|----------------------|------------------------|-------------|--------------------|----------------|--------------|-------------|-----------|-------------|----------------|------------------------|--------------------------|---------------------------|-------------------------|----------------------|----------------------|----------|
| 25R74      | Soft red             | -2                     | 9           | 6                  | 6              | 6            | 3           | 6         | 8           | 8               | 7                      | 6                       | 5                         | Awned                   |
| 25R61      | Soft red             | -0.5                   | 9           | 7                  | 6              | 6            | 5           | 7         | 4           | 6               | 7                      | 6                       | 7                         | Awned                   |
| 25R40      | Soft red             | 0                      | 9           | 7                  | 7              | 5            | 2           | 5         | 5           | 8               | 8                      | 4                       | 6                         | Awned                   |
| 25W38      | Soft white           | 2                      | 9           | 5                  | 8              | 6            | 3           | 6         | 8           | 9               | 7                      | 7                       | 9                         | Awned                   |

**NOTES**

*Pending*

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 2020 harvest and were the latest available at time of printing. Some scores may change during the 2021 season. Contact your Pioneer sales representative before planting for the latest trait rating information.

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**Cerefit™ fungicide** is a dual mode of action fungicide that provides broad-spectrum control of leaf diseases in winter wheat.

**Pixxaro™ herbicide with Arylex® Active** delivers superior annual broadleaf weed control of even the most challenging weeds in your winter wheat crop.

---

**Wheat**

WHEAT

You need superiority. Best-in class.

Built with superior winterhardiness and disease resistance, Pioneer® brand wheat delivers best-in-class yield potential. Our diverse lineup of wheat varieties offers market-leading agronomic traits to fit your needs. Our wheat varieties offer superior stability and adaptability across growing regions with excellent standability, optimal height and very good lodging resistance.
You need max potential. Consistent performance.
Pioneer® brand canola hybrids are bred to give you a competitive advantage by consistently delivering outstanding disease resistance for top-end performance. Our balanced product lineup features early growth, improved standability and excellent harvestability.

<table>
<thead>
<tr>
<th>Pioneer® Brand Product</th>
<th>Herbicide Tolerant Trait</th>
<th>Pioneer Protector® technology</th>
<th>Maturity</th>
<th>Sclerotinia Resistance</th>
<th>Clubroot Resistance</th>
<th>Blackleg</th>
<th>Fusarium Wilt</th>
<th>Early Growth</th>
<th>Green Seed Content</th>
<th>Standability</th>
<th>Straight Cut</th>
<th>Plant Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>45CM39</td>
<td></td>
<td></td>
<td>5 1 R 8 R</td>
<td>7 R 8 8 7 VG 7</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>P505MSL</td>
<td></td>
<td>LIBERTY LINK ®</td>
<td>5 6 R CRI</td>
<td>R 7 R 8 8 7 VG 8</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>P506ML</td>
<td></td>
<td>LIBERTY LINK ®</td>
<td>5 1 R 8 R</td>
<td>7 R 8 8 7 VG 8</td>
<td></td>
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</tr>
</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.

Making More Profitable Decisions
See profit of each acre with agronomic and financial map layers.

See What Works
Pull up simple charts that show the impact of harvest moisture and planting date on your yield.

Make Use of Your Data
Upload data you already collect from 10+ manufacturers, including John Deere Operations Center.

Collaborate with Your Team
Snap and send geolocated photos and notes.

Catch & Correct Issues Faster
Add on Directed Scouting for high frequency, 3-metre resolution satellite imagery. With weekly email alerts, you know where to scout first based on in-field changes. GPS pinpoints your exact location in the field.

What to Expect from Granular Insights

Impact Your Bottom Line
Drive profitability with the data you have.

See what works on your farm in minutes not hours, all in the palm of your hand. By automatically combining your planting and yield data with estimated revenue and costs, Granular Insights lets you see what’s working and which acres are holding you back, so you can make decisions today that impact yield and profitability tomorrow. Simple, straightforward analysis for better decision-making.

CANOLA WITH THE LIBERTYLINK ® TRAIT
Pioneer® brand canola genetics are now available with the LibertyLink® trait. Bringing together improved yield, proven weed control and Pioneer Protector® traits.

For more information, talk to your local Pioneer sales representative. support.ca@granular.ag | 844-744-8534 | ca.granular.ag

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**CORN FOOTNOTES**

**IMPORTANT** Rating scores provide key information in a simplified form. Corn performance data can represent an average of performance data across areas of your area. Information and ratings are based on comparisons of corn products within a hybrid family. Please use this information only as one component of your product selection decision. For individual hybrid and product selection, always read and follow label directions. AMXT = Optimum® AcreMax® XTreme; AMO = Optimum® AcreMax®; AML = Optimum® AcreMax® Lite; AQ = AcreView®; ARL = AcreView® Lite; BMR = BMR®; BRST = Brisk Stalk®; BSN = BSN®; BSU = BSN® Ultimate; CCR = CornChip®; CoE = CoE®; CMB = Centre Maturity-Based; CoE = CoE®; CRM = Comparative Rating Method; CT = Cultivar; CTV = CornTrack® Valley; DUS = Diplomatic Uniform Standard; FID = Field Identifiers; HX1 = Hybrid X1®; HX2 = Hybrid X2®; InF = InFo®; IAD = InCaterpillar® Advance Dose; INR = Infrared Reflectance Spectroscopy; LKH = Low Kernels per Head; LTR = Low Tartrazine; M/L = Matured/Lightened; NLS = Natural Levels of Stearic; NLB = Near Liberty Brown; NLB+ = Near Liberty Brown Plus; OMY = Optimum® Yield; PA = Per Acre; PPM = Parts Per Million; Q = Quick; RE = Recommended Effective Rate; RMS = Recommended Minimum Spray Volume; ROR = Root Out Rot; SCR = Sustainable Corn; SD = Soft Dough; SHO = Shimmer; SHT = Short; SWP = Soft White Par; T = Taller; TML = Top Milkline; TPD = Tolerant to Post-Harvest Damage; TPS = Tolerant to Partial Sunlight; USP = Ultimate Stalk Performance; WDP = Water Drop Phenotypic; WDP = Water Drop Phenotypic; WRD = Water Drop Resistance; X = X-Factor; XPA = X-Press®; XPX = X-Press®; YTM = Yield Track® Max; Z = Zone.

**1 MARKET SEGMENT** Designations indicate product is also suitable for sale in the following categories. MP – Market Position: products can be used under normal environmental conditions. DUS – Diploma Uniform Standard: suitable for the following market:

- MP – Market Position: products can be used under normal environmental conditions.
- DUS – Diploma Uniform Standard: suitable for the following market:

  - The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

  - SmartStax® trait technology for broad pest resistance.

**2 FIELD EMERGENCE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**3 STRESS EMERGENCE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**4 FIELD EMERGENCE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**5 Inspirations**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**6 STRESS EMERGENCE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**7 IRIDELL THERMOSENSITIVE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**8 DISEASE PRECAUTION: Growers should balance corn product yield and health to achieve the greatest economic return.**

**9 Stalk Health Precaution: In areas with higher potential for stalk damage from conditions such as severe hail, late season moisture or half milkline, you should choose products with lower stalk internodes from conditions usually favored by rapid or extended stalk growth.**

**10 SNAP POTENTIAL: Products with lower snap potential of corn products.**

**11 SHO**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**12 PERCENT OIL AT 13% MOISTURE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**13 HILA COLOUR**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**14 HILA RATING**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**15 HILA PIGMENTATION**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**16 METRIBUZIN**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**17 BUTANE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**18 RATING SOURCE**

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**19 HILA PIGMENTATION**

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**20 HILA RATING**

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**47 HILA RATING**

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**48 BUTANE**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.

**49 FOOTNOTES**

- The YieldGard® Corn Borer gene offers a high level of resistance and protection against the Western Corn Rootworm.
**Stewardship Requirements**

6 Standability/Lodging Resistance:

5 Disease Resistance Index:

2 Forage Yield:

9 Herbicide Resistance:

- Brand alfalfa seed or crops containing Genuity® Roundup Ready® gene (RR) technology are restricted from export to China.
- Varieties with Genuity® Roundup Ready® gene technology are restricted from export to China and not for the production of sprouts or seed. Any product produced from an alfalfa crop or seed containing GENRR and/or HVX technology, and hay and hay products grown from seed with GENRR and/or HVX technology are restricted from export to China.

**FORAGE YIELD** = Resistant, MR

**DISEASE RESISTANCE INDEX** = Outstanding, R

**HERBICIDE RESISTANCE** = Outstanding, R

**STANDABILITY/LODGING RESISTANCE** = Outstanding, R

**WEAT FOOTNOTES**

**IMPORTANT** Information and ratings are based on relative comparisons with other Sila-Bac® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additive Research, based on multiple growing conditions, and may not predict future results. Actual results may vary. The effect of any silage inoculant is dependent upon management at harvest, storage and feedout. Factors such as moisture, maturity, chop length and composting will all influence inoculant efficiency.

**FERTILIZATION** Rate and extent of pH decline and the concentration of ammonium ions occurring in slurry.

**EVALUATION** Relative heat development compared to ambient temperature. Silo air temperature.

**FERMENTATION** Average 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.

**ASSESSMENT** Critical assessment of overall 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.

**AGENCY**: USDA

**APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.**

**Herbicide Resistance:**

- For crops that are not tolerant to glyphosate.
- ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.

**INOCULANT FOOTNOTES**

1. **MATURITY**: 5 = Medium-Early; 6 = Medium; 7 = Medium-Late; 8 = Late

2. **CLUBROOT RESISTANCE**: 0 = Susceptible; 1 = Resistant; 2 = Moderately Resistant; 3 = Highly Resistant

3. **PRE-NURSERY PERFORMANCE**:

<table>
<thead>
<tr>
<th>Trait</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Poor. Lower scores =</td>
</tr>
</tbody>
</table>
| 2 | Medium-Early; 3 = Medium-Late; 4 = Late
| 3 | Outstanding, R |
| 4 | Very high count. |
| 5 | Highly Resistant, 1 |
| 6 | Excellent, 1 |
| 7 | Severely lodged. |
| 8 | Outstanding, R |
| 9 | Severely lodged. |
| 10 | Excellent, 1 |
| 11 | Severely lodged. |
| 12 | Excellent, 1 |
| 13 | Severely lodged. |
| 14 | Excellent, 1 |
| 15 | Severely lodged. |
| 16 | Excellent, 1 |
| 17 | Severely lodged. |
| 18 | Excellent, 1 |
| 19 | Severely lodged. |
| 20 | Excellent, 1 |
| 21 | Severely lodged. |
| 22 | Excellent, 1 |
| 23 | Severely lodged. |
| 24 | Excellent, 1 |
| 25 | Severely lodged. |
| 26 | Excellent, 1 |
| 27 | Severely lodged. |
| 28 | Excellent, 1 |
| 29 | Severely lodged. |
| 30 | Excellent, 1 |

**R** = Resistant, **VR** = Very Resistant

**WHEAT FOOTNOTES**

**IMPORTANT** Information and ratings are based on comparisons with other Pioneer® brand products, not competitive products. Information and ratings are assigned by Pioneer Agronomy Research Managers, based on average performance across areas of adaptation, 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 see this information as only part of your product positioning decision. Read 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® variety.