2021

PIONEER® BRAND PRODUCTS AND SERVICES.
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 REP 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.
## GRAIN CORN LINEUP

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**NOTES**

For complete definitions and disclaimers related to product descriptions, characteristics ratings, disease ratings, and all other information contained herein, [see page 48](#).
### RATINGS

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<th>Technology Segment</th>
<th>Grain Marketing</th>
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<th>Silk CRM</th>
<th>Physiological CRM</th>
<th>Stalk Strength</th>
<th>Root Strength</th>
<th>Stress Emergence</th>
<th>Staygreen</th>
<th>Drought Tolerance</th>
<th>Grain Drydown</th>
<th>Test Weight</th>
<th>Husk Cover</th>
<th>Ear Height</th>
<th>Mid-Season Brittle Stalk</th>
<th>Northern Leaf Blight (NLB)</th>
<th>Foliar Fungicide Response (NLB)</th>
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### NOTES

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

- 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 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 PRODUCTS

P7211<sup>AM</sup>™
2050 HEAT UNITS
Proven performer
- Shorter plant with high yield potential
- Very good test weight and grain quality
- Above average stalk strength

P7861<sup>AM</sup>™
2250 HEAT UNITS
Early product with strong agronomics
- Very good stalk strength
- Above average root strength
- Strong drought tolerance

P7955<sup>AM</sup>™
2300 HEAT UNITS
Early product with good grain quality
- Excellent agronomics
- Very good test weight
- Excellent root and stalk strength

P8234<sup>AM</sup>™
2400 HEAT UNITS
Above average agronomics
- Excellent stalk and root strength
- Very good grain drydown
- Good drought tolerance

P8407<sup>AM</sup>™
2450 HEAT UNITS
High yield potential with excellent agronomics
- Excellent disease resistance package
- Very good root and stalk strength
- Strong tolerance to Northern Leaf Blight

P8407<sup>Q</sup>™
2450 HEAT UNITS
New Qrome® product with strong agronomics
- Qrome protection for corn on corn acres
- Very good root and stalk strength
- Solid drought tolerance

CUTTING-EDGE RESEARCH & DEVELOPMENT

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.
## Grain Marketing

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- **P8537Q™**: 2550 85 83 6 5 4 5 7 5 6 5 6 5 7 LP
- **P8736AM™**: 2575 87 88 86 4 4 4 5 7 5 4 7 7 5 6 LP 6
- **P8820AM™**: 2600 88 90 7 6 4 4 6 6 6 3 4 5 6 LP
- **P8820Q™**: 2600 88 90 7 6 4 4 6 6 6 3 4 5 6 LP
- **P8989AM™**: 2625 89 87 88 5 5 5 4 6 4 5 4 6 7 6 LP 6
- **P9188**: Conventional 2600 91 89 91 6 8 4 4 7 4 6 4 6 4 5 7 LP 5 5
- **P9188AM™**: 2650 91 89 91 6 8 4 4 7 4 6 4 6 4 5 7 LP 5 5
- **P9188AMXT™**: 2700 91 89 91 6 8 4 4 7 4 6 4 6 4 5 7 LP 5 5
- **P9233AM™**: 2725 92 90 5 6 4 5 6 5 6 5 6 3 5 MP 5
- **P9233Q™**: 2750 92 90 5 6 4 5 6 5 6 5 6 3 5 MP 5

### 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** | **INSUFFICIENT DATA**

- **NEW**

- 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.

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FEATURED PRODUCTS

**P8537AM™**
- **2550 HEAT UNITS**
- New product with solid performance
  - High drought tolerance
  - Above average test weight
  - Very good tolerance to Northern Leaf Blight

**P8820Q™**
- **2600 HEAT UNITS**
- New Qrome® platform with strong standability
  - Short statured with very good grain corn characteristics
  - Later silk with aggressive yield potential
  - Good test weight for maturity

**P8989AM™**
- **2625 HEAT UNITS**
- High yield potential for maturity
  - Strong disease resistance package
  - Solid stalk strength
  - Above average tolerance to Gibberella ear rot

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

**P9188AMXT™**
- **2700 HEAT UNITS**
- Triple stack option in leader platform for maturity
  - Excellent stability with solid agronomics for a range of environments
  - Excellent root strength
  - Very good Northern Leaf Blight tolerance

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

---

Local Expertise

Your Pioneer sales representative, backed by a team of local agronomists, is ready to help you select the right products for your operation and help you push boundaries to bring your operation to the next level.
## RATINGS

<table>
<thead>
<tr>
<th>Pioneer® Brand Product</th>
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<th>Silk CRM</th>
<th>Physiological CRM</th>
<th>Stalk Strength</th>
<th>Root Strength</th>
<th>Stressed Emergence</th>
<th>Grain Drydown</th>
<th>Test Weight</th>
<th>Husk Cover</th>
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<th>Mid-Season Brittle Stalk</th>
<th>Northern Leaf Blight (NLB)</th>
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FEATURED PRODUCTS

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

**P9301Q™**
**NEW**
2750 HEAT UNITS
Exciting new Qrome® product
- Excellent agronomics for corn on corn acres
- Strong test weight
- Good foliar disease package

**P9535AM™**
**NEW**
2850 HEAT UNITS
Competitive new addition to maturity
- Versatility across soils and management strategies
- Strong test weight
- High drought tolerance

**P9608AM™**
2850 HEAT UNITS
Solid performer
- Great yield performance and stability
- Very good test weight
- Excellent standability traits

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

**P9815AM™**
**NEW**
2925 HEAT UNITS
Strong yield potential
- High drought tolerance
- Above average stress emergence
- Very good grain drydown but manage appropriately

---

**GET POWER OVER WEEDS WITH CORTEVA AGRISCIENCE**

Corteva Agriscience™ corn herbicides give farmers power over weeds. These solutions fit the way farmers grow corn, offering dependability and application flexibility to deal with the unexpected. Visit corteva.ca for more information. 

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Corn | 11
### RATINGS

| Pioneer® Brand Product | Market Segment | Technology Segment | Grain Marketing | Heat Units | CRM | Silk CRM | Physiological CRM | Root Strength | Stalk Strength | Stalk Strength | Staygreen | Drought Tolerance | Test Weight | Plant Height | Husk | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear Height | Ear 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FEATURED PRODUCTS

P9946AML™
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™
2950 HEAT UNITS
Hero product for maturity
• Above average root and stalk strength
• Great yield to moisture performance
• Above average test weight

P0075AM™
3050 HEAT UNITS
Leader platform for maturity
• Great yield to moisture performance
• Sound root strength
• Stable performance across a wide geography

P0075Q™
NEW
3000 HEAT UNITS
New product with Qrome® insect protection
• Delivers increased yield potential
• Strong root strength
• Above average emergence under stress

P0157AMXT™
3050 HEAT UNITS
Leader platform for maturity
• Great yield to moisture performance
• Sound root strength
• Stable performance across a wide geography

P0306AM™
3100 HEAT UNITS
Great yield to moisture performance
• Solid agronomics
• Exceptional root strength
• Above average test weight

PIONEER® BRAND OPTIMUM® ACREMAX® LEPTRA®
• Pioneer® brand Optimum® AcreMax® Leptra® products combine three proven insect protection traits – Herculex® I, 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

| Pioneer® Brand Product | Market Segment | Technology Segment | Heat Units | CRM | Silk CRM | Physiological CRM | Root Strength | Stress Emergence | Drought Tolerance | Test Weight | Plant Height | Husk Cover | Ear Height | Mid-Season Brittle Stalk | Northern Leaf Blight (NLB) | Foliar Fungicide Response (NLB) | Gibberella Ear Rot | Anthracnose Stalk Rot | Grain Drydown | Test Weight | Plant Height | Husk Cover | Ear Height | Mid-Season Brittle Stalk | Northern Leaf Blight (NLB) | Foliar Fungicide Response (NLB) | Gibberella Ear Rot | Anthracnose Stalk Rot |
|------------------------|----------------|------------------|------------|-----|----------|-------------------|--------------|------------------|------------------|-------------|--------------|-----------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------|-------------|-----------|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| P0434AM™               |                |                  | 3125       | 104 | 97       | 6                  | 7            | 5                | 5                | 7           | 3            | 6         | 4         | 4                       | 4                        | 5                        | MP                       | 4                        | 6                        | 5                        |
| P0506                  | AQ Conventional|                  | 3100       | 105 | 105      | 105                | 6            | 4                | 5                | 7           | 9           | 7         | 5         | 6                       | 3                        | 5                        | 6                        | 6                        | LP                       | 5                        | 5                        | 5                        |
| P0506AM™               | AQ             |                  | 3150       | 105 | 105      | 105                | 6            | 4                | 5                | 7           | 9           | 7         | 5         | 6                       | 3                        | 5                        | 6                        | 6                        | LP                       | 5                        | 5                        | 5                        |
| P0574AM™               | AQ             |                  | 3150       | 105 | 104      | 108                | 6            | 7                | 6                | 7           | 9           | 4         | 5         | 3                       | 4                        | 4                        | 4                       | 5                        | MP                       | 3                        | 4                        | 4                        |
| P0720AM™               |                |                  | 3225       | 107 | 106      | 109                | 6            | 7                | 5                | 6           | 8           | 5         | 7         | 5                       | 6                        | 4                        | 6                        | 4                        | LP                       | 5                        | 4                        | 5                        |
| P0720Q™                |                |                  | 3250       | 107 | 106      | 109                | 6            | 7                | 5                | 6           | 8           | 5         | 7         | 5                       | 6                        | 4                        | 6                        | 6                        | LP                       | 5                        | 4                        | 5                        |
| P0806AM™               |                |                  | 3250       | 108 | 110      |                    | 6            | 6                | 4                | 6           | 6           | 4         | 7         | 7                       | 6                        | 4                        | 5                        | MP                       | 6                        | 4                        |
| P0825AM™               |                |                  | 3250       | 108 | 111      | 111                | 6            | 4                | 5                | 8           | 5           | 6         | 4         | 6                       | 6                        | 5                        | 6                        | 6                        | LP                       | 5                        | 5                        | 5                        |
| P0825AMXT™             |                |                  | 3300       | 108 | 111      | 111                | 6            | 4                | 5                | 8           | 5           | 6         | 4         | 6                       | 6                        | 7                        | 6                        | 6                        | LP                       | 5                        | 6                        | 5                        |
| P1197AM™               |                |                  | 3400       | 111 | 113      | 113                | 7            | 5                | 5                | 8           | 6           | 7         | 5         | 6                       | 5                        | 6                        | 5                        | 6                        | LP                       | 5                        | 5                        | 5                        |
| P1197AMXT™             |                |                  | 3400       | 111 | 113      | 113                | 7            | 5                | 5                | 8           | 6           | 7         | 5         | 6                       | 5                        | 6                        | 5                        | 6                        | LP                       | 5                        | 5                        | 5                        |

### 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**: 9
- **POOR**: 1
- **INSUFFICIENT DATA**: N/A
- **NEW**: N/A

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14 | Corn
PIONEER® BRAND QROME® PRODUCTS PROVIDE MORE HIGH-PERFORMANCE TRIPLE STACK PRODUCT OPTIONS

- New, high-yielding Pioneer® brand Qrome® products are 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
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/ac advantage over all competitive products tested.
ABOVE AND BEYOND RESULTS.

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 Pioneer’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/AC

AVERAGE ADVANTAGE

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

Corteva corn rootworm research trial: Johnston, IA

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

Look for a Pioneer® brand Qrome field near you.

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.
## Grain Corn

### Herbicide Management Guide

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<th>Technology Segment</th>
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### Notes

- **Adequate Tolerance**
- **Requires Careful Management**
- **Crop Response Warning**
- **Insufficient Data**
- **New**

*For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 48 & 49.*
LumiGEN™

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 products you’re planting.

LumiGEN™ seed treatments are designed, verified and proven to work with Pioneer® brand products, to help farmers establish healthy, uniform crops and maximize productivity.

LumiGEN seed treatments are exclusive to the seed brands of Corteva Agriscience, and represent the value of the seed applied technologies that are available on Pioneer® brand products.

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

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
- Offers a favourable environmental profile

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

Average Yield (bu/acre)

<table>
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<tr>
<th>Treatment</th>
<th>Average Yield</th>
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<td>Lumivia™ 500</td>
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Small Plot Demo Trials from 2015 – 2016 (n=98)

Designed for our genetics
You’ve invested in outstanding Corteva genetics for your field. We’ve invested in protecting their performance potential. LumiGEN seed treatments represent the best treatments for Pioneer products to meet the vital needs of emerging crops and add value to the seed you plant.

Verified on our genetics
LumiGEN™ seed treatments capitalize on over 100 years of crop protection know-how, and an understanding of what growers need and how they farm. Our seed treatment combinations are carefully evaluated at the Corteva Agriscience Center of Seed Applied Technologies (CSAT), a first-of-its-kind, all-in-one facility that’s part laboratory, testing centre and seed treating plant. Here, seed treatments are reviewed using our exclusive six-step PASSER process.

Proven in the field with our genetics
LumiGEN seed treatments are tested in real fields on real farms. Through our Field Test Network, our treated seed is evaluated by growers. It goes into the ground using real planters, under real conditions – and is observed and evaluated for real results.

Proven in the field with our genetics
LumiGEN seed treatments are tested in real fields on real farms. Through our Field Test Network, our treated seed is evaluated by growers. It goes into the ground using real planters, under real conditions – and is observed and evaluated for real results.

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

Early season protection to maximize yield potential

Average Yield (bu/acre)

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Small Plot and Large Demo Trials from 2015 – 2016 (n=98)

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

**Gerplasm**
Developed through 90+ years of expertise, our gerplasm 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:

- **5,000** scientists and researchers
- **2** innovation hubs: Johnston, Iowa; Indianapolis, Indiana
- **160+** 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

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<th>Herbicide Resistance</th>
<th>Heat Units</th>
<th>SCN Resistance Source</th>
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### NOTES

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

Symbols:
- **OUTSTANDING**
- **POOR**
- **INSUFFICIENT DATA**
- **NEW**

*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 E pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.
NEW FEATURED PRODUCTS

**P03A26x™**
- 2600 HEAT UNITS
- Solid agronomics
- Very good field emergence
- Average white mould tolerance

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

**P07A18x™**
- 2700 HEAT UNITS
- Strong early season emergence
- Moderate plant height with above average canopy width
- Moderate white mould tolerance

**P09A53x™**
- 2750 HEAT UNITS
- Excellent harvest standability
- Great yield to maturity performance
- Very good field emergence

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

**P11A10**
- 2800 HEAT UNITS
- Conventional variety with exceptional performance
- Short plant height
- Narrow canopy width

---

**THE RIGHT TRAITS AND CROP PROTECTION TO HELP CONTROL TOUGH WEEDS**

Protect your top-performing Pioneer® brand soybeans with leading herbicide-tolerant traits. Our wide range of herbicide-tolerant traits help you control everything from grasses to tough-to-control glyphosate-resistant weeds — all to help boost the performance of your soybean fields and maximize returns. In addition, Corteva Agriscience soybean herbicides ease your weed anxieties, help you be better stewards of the land while improving your operation.
## SOYBEANS

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<tr>
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### NOTES

*Pending registration
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- **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 E pesticide under the Ontario Regulation 63/09 of the Pesticides Act. For more information, talk with your Pioneer sales representative.
FEATURED PRODUCTS

P16A84™
2925 HEAT UNITS
- Strong SDS tolerance
- Moderate canopy width
- Solid harvest standability

P19A14™
3000 HEAT UNITS
- Yield leader for maturity
- Moderate plant height and canopy width
- Peking source of SCN resistance

P20T95™
3025 HEAT UNITS
- Strong early season stress emergence
- Moderate plant height
- Solid harvest standability

P21A28™
3050 HEAT UNITS
- Great yield performance
- Excellent field emergence
- Great shattering resistance

P24A80™
3125 HEAT UNITS
- Excellent harvest standability
- Top yield potential
- Excellent stability

P24T76™
3125 HEAT UNITS
- New Enlist E3™ variety
- Peking source of SCN resistance
- Solid harvest standability

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.
### RATINGS

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<tr>
<th>Pioneer® Brand Product</th>
<th>Heredity Resistance</th>
<th>SCN Resistance Source</th>
<th>Heat Units</th>
<th>Relative Maturity</th>
<th>Field Emergence</th>
<th>Phytophthora Resistance Genes</th>
<th>Phytophthora Field Tolerance</th>
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<th>SCN Race 3</th>
<th>Aphid Antibiosis</th>
<th>White Mold</th>
<th>Canopy Width</th>
<th>Harvest Standability</th>
<th>% Protein (At 13% Moisture)</th>
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**PIONEER® BRAND A-SERIES SOYBEANS**

The highest yielding class of soybeans ever introduced by Pioneer. A-series soybeans offer growers improved weed control options in varieties bred to produce the highest yield potential.
SOYBEANS

LumiGEN™
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 products you’re planting.

LumiGEN™ seed treatments are designed, verified and proven to work with Pioneer® brand products, to help farmers establish healthy, uniform crops and maximize productivity.

LumiGEN seed treatments are exclusive to the seed brands of Corteva Agriscience, and represent the value of the seed applied technologies that are available on Pioneer® brand products.

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

Protection against phytophthora
- Phytophthora is the #1 disease in soybeans and 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

Lumisena.corteva.ca
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 stand to maximize yield potential
- A new mode of action with a favourable environmental profile
- Simplifies your seed treatment decisions

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

Simplify your seed treatment decision
- Lumiderm simplifies seed treatment decision-making considerably by reducing administrative paperwork

Lumiderm Research Authorization Results

Serious Seed Protection.
Lumiderm™ insecticide seed treatment is now available for control of early season insect pests in soybeans.

Lumiderm Target Pest Bean Leaf Beetle: Ontario Soybean Plot Site

BLB Damage
FST only
Standard IST + FST
Lumiderm + Lumisena™ + FST

These pictures illustrate that Lumiderm is an improvement in bean leaf beetle control, compared to competitive products.

Demo Strip Trials Data (Average of 8 locations, 2 Reps/location)

IST = Insecticide Seed Treatment | FST = Fungicide Seed Treatment
The Enlist™ weed control system will change how you think about weed management in soybeans.

Farmers are now able to purchase Pioneer® brand Enlist E3™ varieties and will be able to take control of resistant and hard-to-control weeds.

Introducing the Enlist weed control system

The Enlist weed control system will help growers meet the challenge of farming today and in the future.

Why use the Enlist weed control system?

- A new system built for Canadian farmers starting with new traits providing herbicide tolerance in soybeans and corn
- Herbicide solutions built on 2,4-D Choline, an improved form of 2,4-D with new Colex-D™ technology
- Includes a stewardship initiative that supports the use of multiple modes of action to address resistant weeds, provides training, and promotes responsible and sustainable use

Enlist E3™ Soybeans

Enlist E3 soybeans provide leading soybean genetics with high yield potential and industry leading multi-mode of action herbicide tolerance.

Why use Enlist E3 soybeans?

- Enlist E3 soybeans are tolerant to 2,4-D, glyphosate and glufosinate herbicides
- Crop tolerance to Enlist herbicides with Colex-D™ technology is robust, enabling applications up to the R2 growth stage
- With tolerance to 3 different herbicide modes of action, Enlist E3 soybeans are part of a strong resistance management strategy
- A program approach including other herbicide modes of action and residual herbicides provides an even more sustainable approach to weed management

Enlist herbicides with Colex-D technology

The Enlist weed control system gives you the choice of Enlist herbicides with Colex-D technology.

Enlist Duo™

Convenience of both 2,4-D choline and glyphosate in one formulation – controls more than 90 weeds including grasses and many hard-to-control and resistant weeds.

New Enlist™ 1

New Enlist 1 is a stand-alone Colex-D formulation that controls over 40 broadleaf weeds. It gives you the flexibility to tank-mix with and adjust rates of glyphosate or glufosinate to control a wide range of hard to control and resistant weeds.

COLEX-D™ technology

<table>
<thead>
<tr>
<th>WHAT GOES INTO IT</th>
<th>WHAT IT DELIVERS</th>
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<tbody>
<tr>
<td>2,4-D choline with Colex-D Technology</td>
<td>Near zero volatility</td>
</tr>
<tr>
<td>Latest formulation science</td>
<td>Minimized potential for physical drift</td>
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<td>Proprietary manufacturing process</td>
<td>Low odour</td>
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<td>Improved handling characteristics</td>
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</table>
Enlist™ Duo and Enlist™ 1 are powerful tools for you to use as part of the Enlist™ Weed Control System:

- With Colex-D technology, both herbicides are designed to land and stay on target.
- 2,4-D choline adds a Group 4 herbicide technology adding a new tool for managing hard-to-control and resistant weeds.
- Both have a wide window of application from pre-plant burndowns up to the R2 stage of Enlist™ E3 soybeans.
- Both are designed to be used as part of a Program Approach to manage a wide range of hard-to-control weeds like
  - Annual sow thistle
  - Cleavers
  - Dandelion
  - Kochia
  - Volunteer canola
  - Wild buckwheat

**Program approach**

- **Start clean with tillage, burndown herbicide*, or a soil residual herbicide**
- **PLANT ENLIST E3™ SOYBEANS**
- If not applied before planting, apply soil residual herbicide
- **APPLY ENLIST™ AND GLYPHOSATE HERBICIDES**
  - No later than R2 or full flowering stage
- **Enlist Duo™ with COLEUS® technology**
- **Enlist™ 1 with COLEUS® technology**
- **APPLY GLUFOSINATE HERBICIDES**
  - No later than R1 or beginning bloom

Visit us at enlistcanada.ca

*Apply according to label directions. Enlist Duo™ herbicide does not require a delay between application and planting.

Always read and follow the product label and consult the Product Use Guide for additional application information. The transgenic soybean event in Enlist E3™ soybeans is jointly developed and owned by Dow AgroSciences LLC and M.S. Technologies, L.L.C. The Enlist weed control system is owned and developed by Dow AgroSciences LLC.
## Herbicide Sensitivity Rating

### Pioneer® Brand Product

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<th>Metribuzin</th>
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### P20T95e™

- **Relative Maturity**: 20
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P21A20™

- **Relative Maturity**: 21
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P21A28x™

- **Relative Maturity**: 21
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P21A81L™

- **Relative Maturity**: 21
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P23A32x™

- **Relative Maturity**: 23
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P24A80x™

- **Relative Maturity**: 24
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P24T35e™

- **Relative Maturity**: 24
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P24T76e™

- **Relative Maturity**: 24
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- **Metribuzin**: 18

### P25A54x™

- **Relative Maturity**: 25
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P25A96x™

- **Relative Maturity**: 25
- **Sulfentrazone and Saflufenacil**: 17
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### P26T57e™

- **Relative Maturity**: 26
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- **Metribuzin**: 18

### P27A17x™

- **Relative Maturity**: 27
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P28A42x™

- **Relative Maturity**: 28
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P28T14E™

- **Relative Maturity**: 28
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P30T99E™

- **Relative Maturity**: 30
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P31A22x™

- **Relative Maturity**: 31
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P31A95BX™

- **Relative Maturity**: 31
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P32A87L™

- **Relative Maturity**: 32
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### P32T26e™

- **Relative Maturity**: 32
- **Sulfentrazone and Saflufenacil**: 17
- **Metribuzin**: 18

### Notes

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

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

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### NOTES

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9 OUTSTANDING 1 POOR INSUFFICIENT DATA NEW

▲ 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.

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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.
# SILAGE CORN

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<th>Market Segment</th>
<th>Technology Segment</th>
<th>Grain Marketing</th>
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- **P0434AM™**: 2700–3000 103 8 9 8 7 8 8 7 5 7 4 4 MP 4
- **P9998Q™**: AQ ✔ 2700–3000 103 8 7 7 7 7 8 7 6 6 4 4 MP 4
- **P0242AMXT™**: Silage Specific 2800–3100 104 7 9 8 8 7 8 6 5 5 6 5 MP 6
- **P0677AMX™**: BMR 2800–3100 106 6 8 9 9 7 7 9 3 3 6 4 4 HP
- **P0075Q™**: 2800–3100 106 8 7 9 7 8 8 6 7 6 8 5 5 LP 5
- **P0506AM™**: AQ ✔ 2900–3200 107 8 7 7 7 5 7 6 4 5 9 6 5 LP 5
- **P0157AMXT™**: AQ ✔ 2900–3200 107 8 8 7 6 8 7 5 7 5 9 4 4 MP 4
- **P0789AMXT™**: Silage Specific 3100–3400 107 9 6 8 7 7 9 7 6 5 6 4 9 8 MP
- **P0306Q™**: AQ ✔ 3100–3400 108 9 9 8 7 8 9 6 8 5 9 3 4 MP 4
- **P0998Q™**: 3100–3400 112 7 8 8 9 7 9 6 7 5 8 5 6 LP 5
- **P0825AMXT™**: ✔ 3100–3400 113 7 8 9 8 7 8 9 6 4 5 6 6 LP 5

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- OUTSTANDING
- POOR
- INSUFFICIENT DATA

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P9789AMXT™

2600-2900 HEAT UNITS
Top tonnage and quality
- Great digestibility scores
- Silage-specific product
- Excellent product for corn-on-corn

P0242AMXT™

2800-3100 HEAT UNITS
Silage-specific product
- Excellent fibre digestibility and starch content
- Very good forage quality
- Superb milk/beef per ton

P0677AMX™

2800-3100 HEAT UNITS
Brown mid-rib (BMR)
- Strong agronomics with the BMR gene
- Superb digestibility
- Excellent milk per ton

P0789AMXT™

3100-3400 HEAT UNITS
Full-season silage-specific product
- Excellent silage yield
- Superb milk/beef per acre
- Great whole plant digestibility

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.
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.
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<td>7</td>
</tr>
</tbody>
</table>

### FORAGE QUALITY AND LODGING RESISTANCE

**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.

<table>
<thead>
<tr>
<th>Disease/Pest Resistance Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR</td>
</tr>
<tr>
<td>R</td>
</tr>
<tr>
<td>MR</td>
</tr>
<tr>
<td>LR</td>
</tr>
<tr>
<td>S</td>
</tr>
</tbody>
</table>

*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

### RATINGS

<table>
<thead>
<tr>
<th>CORN FIBRE TECHNOLOGY</th>
<th>11CFT Multi-strain with <em>L. buchneri</em></th>
<th>Improves nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering corn silage pH. Contains a proprietary <em>L. buchneri</em> 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.</th>
<th>** • • **</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRASS FIBRE TECHNOLOGY</td>
<td>11GFT Multi-strain with <em>L. buchneri</em></td>
<td>Improves nutrient conservation and fibre digestibility. Reduces dry matter loss by rapidly lowering grass or cereal silage pH. Contains a proprietary <em>L. buchneri</em> 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.</td>
<td>** • • **</td>
</tr>
<tr>
<td>ALFALFA FIBRE TECHNOLOGY</td>
<td>11AFT Multi-strain with <em>L. buchneri</em></td>
<td>Improves nutrient conservation and fibre digestibility. Reduces dry matter loss and protein degradation by rapidly lowering alfalfa silage pH. Contains a proprietary <em>L. buchneri</em> 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>** • • **</td>
</tr>
</tbody>
</table>

** • • ** = 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.
## SILA-BAC® BRAND INOCULANTS

### CORN SILAGE

<table>
<thead>
<tr>
<th>Inoculant</th>
<th>Description</th>
<th>Registered Product Claims</th>
<th>RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11C33</td>
<td>Multi-strain with fast acting <em>L. buchneri</em></td>
<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 <em>L. buchneri</em> strain. Provides improved bunklife and stable feed in 7 days.</td>
<td>** *** **</td>
</tr>
<tr>
<td>1174</td>
<td>Basic fermentation product which rapidly lowers silage pH, conserving valuable crop sugars while reducing protein degradation.</td>
<td>** * **</td>
<td></td>
</tr>
</tbody>
</table>

### HIGH-MOISTURE CORN

<table>
<thead>
<tr>
<th>Inoculant</th>
<th>Description</th>
<th>Registered Product Claims</th>
</tr>
</thead>
<tbody>
<tr>
<td>11B91</td>
<td>Multi-strain with fast acting <em>L. buchneri</em></td>
<td>Combines the benefits of 1189 with significantly improved bunklife as a result of the inclusion of a proprietary fast acting <em>L. buchneri</em> strain. Provides improved bunklife and stable feed in 7 days.</td>
</tr>
<tr>
<td>1189</td>
<td>Rapidly reduces pH and increases the starch digestibility in high-moisture corn, snaplage or earlage. Helps improve feed efficiency and rate of gain in animals fed high-moisture shelled corn, snaplage or earlage.</td>
<td>*** *</td>
</tr>
</tbody>
</table>

### GRASS / CEREAL

<table>
<thead>
<tr>
<th>Inoculant</th>
<th>Description</th>
<th>Registered Product Claims</th>
<th>RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11G22</td>
<td>Multi-strain with fast acting <em>L. buchneri</em></td>
<td>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 <em>L. buchneri</em> strain. Provides improved bunklife and stable feed in 7 days.</td>
<td>** *** *</td>
</tr>
<tr>
<td>1174</td>
<td>Basic fermentation product which rapidly lowers silage pH, conserving valuable crop sugars while reducing protein degradation.</td>
<td>*** * *</td>
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### ALFALFA SILAGE

<table>
<thead>
<tr>
<th>Inoculant</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>11H50</td>
<td>Improves alfalfa silage nutritional value by rapidly lowering pH to conserve sugars. Significantly reduces protein degradation in alfalfa silages.</td>
<td>*** ** *</td>
</tr>
</tbody>
</table>
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.
### RATINGS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Type</th>
<th>Heading Date - North</th>
<th>Yield for Primary Area</th>
<th>Test Weight</th>
<th>Lodging Resistance</th>
<th>Winterhardiness</th>
<th>Plant Height</th>
<th>Leaf Blight</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Fusarium Head Blight</th>
<th>Spindle Streak Mosaic Virus</th>
<th>Soil-Borne Mosaic Virus</th>
<th>Flour Yield Score</th>
<th>Flour Softness Score</th>
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<tr>
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</table>

### 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 2019 harvest and were the latest available at time of printing. Some scores may change during the 2020 season. Contact your Pioneer sales representative before planting for the latest trait rating information.

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**Cerfit™**

*Fungicide*

**Pixxaro™**

*Arylex™ active*

*Herbicide*

WHEAT GROWERS HAVE POWERFUL NEW TOOLS AVAILABLE TO THEM FROM CORTEVA AGRISCIENCE™

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

*Pixxaro™* herbicide with *Arylex™* joins the cereals herbicides to control the most challenging weeds in your winter wheat crop.
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.

### 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.
Detect Issues Before They Become Problems

Granular Insights provides you with alerts where to scout first so it’s easy to catch issues earlier. Get a complete view of every field with the most frequent, high-resolution satellite imagery available, prioritized by proprietary agronomic models, so you can spend your time on where it will make the most difference to the bottom line.

**Increase Scouting Efficiency**
Get a list of the top fields in most need of scouting sent straight to your inbox every week instead of manually sorting through hundreds of images.

**Easily Collaborate With Your Team**
Easily capture and share geolocated notes and photos with your advisors and team.

**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.

To learn more about Granular Insights, talk to your local Pioneer sales representative or get a demo at ca.granular.ag

Already a Granular Insights customer? We’re happy to help.
Contact us at support.ca@granular.ag or 844.744.8534
IMPORTANT: Trait rating scores provide key information useful in selection and management of Pioneer® brand corn products in your area. Information and scores are based on comparisons with other Pioneer brand products, not competitive hybrids. Information and scores are assigned by Pioneer Research Managers. Scores are based on field-year trials running through 2019 harvest and were the latest available at time of printing. Some scores may change after 2020 harvest. Scores represent an 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. All products within a hybrid family will have the same score unless observations indicate a significant difference. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision. Contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Pioneer brand product.

1 MARKET SEGMENT: Designations indicate product is also suitable for planting in BMS - Brown Marmorated Stink Bug or BMR - Brown Marmorated Stink Bug. AG = Optimum® AQUAMAX®; Product performance in water-limited environments is variable and depends on many factors such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. All products may exhibit reduced yield under water and heat stress. Individual results may vary.

2 TECHNOLOGY SEGMENT: AM – Optimum® AcroMax® Insect Protection Technology. AMXT – Herculex® AMXT; XH1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. Q – GeneStar® – Contains a single-bag integrated refuge solution for above-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA gene. AMK (Optimum® AcroMax® XTRA) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA gene. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. AML – Optimum® AcroMax® Lepta® products with AViBL, YGCB, XH1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. HKX – Herculex® XTRA gene. Herculex® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

3 Grain Marketing: Single events from Optimum® AcroMax® Lepta®, Grome® and Optimum® AcroMax® Xtreme products are approved for import to the European Union (EU), however the stacked events are not currently approved. Always follow and adhere to the Corteva Agriscience Product Use Guide (“GUIG”), which requires that you take all affirmative steps within your country to appropriately manage and confirm your grain buyer’s acceptance of the grain being sold and only deliver grain to a buyer or grain handler that agrees grain marketing products will be managed in a domestic, food and feed and export markets where such products are authorized. This includes but is not limited to any additional information about the status of regulatory authorizations for these products, including the individual components as well as the trait stacks please visit biotechnology.ca to review the EU approval status for specific hybrids marketed in Canada.

4 CRM (Comparative Relative Maturity): There is not an industry standard for maturity ratings so comparing products maturity and harvest moisture ratings between companies is usually difficult. Use the CRM system to compare Pioneer® brand products with competitive hybrids of a similar maturity and harvest moisture. CRM rating, and harvest moisture, for products within a family may vary slightly, depending upon the level of insect (Bt and CRM) infestation. Conventional and straight RR2 hybrids within a family will usually be higher than indicated, whereas, insect infestations are moderate to heavy. One CRM difference is about 1/2 point of moisture difference at harvest.

5 PHYSICAL CRITERIA: Some differences in maturity to zero milkline stage. To help decide if a new product fits your area’s growing season, compare its physiological CRM to a corn product you think that or one that is successfully used in your area.

6 STRESS EMERGENCE: All corn products are expected to establish normal stands under average to good conditions. Stress emergence is a measure of the genetic ability or potential to emerge in the stressful environmental conditions of cold, wet soils or short periods of severe low temperatures, relative to other Pioneer products. Ratings of 7-9 indicate very good potential to establish normal stands under such conditions; a rating of 5-6 indicates good potential to establish normal stands under moderate stress conditions; and ratings of 1-4 indicate the product has below average potential to establish normal stands under stress. When stress should not be used if severe cold conditions are expected immediately after planting. Stress emergence is not a rating for seeding disease susceptibility, early growth or speed of emergence.

7 DROUGHT TOLERANCE: Drought tolerance is a complex trait, determined by a combination of drought tolerance early in the plant's growth, and product responses in limited-moisture environments. A higher score indicates the potential for higher yields vs. other platforms of similar maturity in limited-moisture environments.

8 GRAIN DRYDOWN: Compare corns a similar maturity for rate of kernel moisture loss after grain physiological maturity (harvest milkline). A lower score indicates slower drydown, possibly offering a wider opportunity for high-moisture grain harvest.

9 TEST WEIGHT: Higher score indicates heavier test weight.

10 PLANT HEIGHT: Height – very tall, 1 short. 

11 MID-SEASON BRITTLE STALK: Determined by frequency and severity of stalk snapping at lower to middle stalk internodes from conditions usually favoured by rapid or optimum growth. Relative response of products can be affected by planting data, stage of growth, rate of growth, wind severity and other variables. Scores derived from both actual observations and artificial evaluation immediately prior to tasseling. NOTE: Scores do not reflect snapnage enhanced by or due to herbicide interaction. Use of the growth regulator herbicides such as 2,4-D and dicamba can increase the brittle stalk snap potential of corn products. Products with lower brittle stalk ratings will require more caution and have a higher risk associated with the use of certain pre-harvest crop herbicides. Early application, proper rates and application methods, along with both hybrid and herbicide selection can help reduce this risk. BRITTLE STALK PRONE with higher potential for brittle stalk breakage, growers must balance the risk of planting products with brittle stalk ratings of less than 4 against the overall performance of more resistant products with higher ratings. All products have a period of susceptibility to brittle stalk. Products with below average ratings may have a longer period of susceptibility, or may experience more severe breakage relative to hybrids with higher scores during period of susceptibility.

DISEASE & PEST RESISTANCE FOOTNOTES:

DISEASE PRECAUTION: Growers should balance corn product yield potential, maturity and cultural practice selection against their anticipated risk of a specific disease and need for resistance. In high disease-risk conditions, consider planting products with at least moderate resistance ratings of 4 or higher to help reduce risk. When susceptible products with ratings of 1 to 3 are planted in conditions of high disease pressure, the grower assumes a higher risk of disease severity, even products rated as resistant can be adversely affected. Independent of yield reduction, diseases can predispose plants to other stresses that may yield to other agronomic factors. This requires individual product and product monitoring for stalk stability and timely harvest when warranted.

DISEASE & PEST RATINGS: B= 9 – Highly Resistant; 6 – Resistant; 4 – Moderately Resistant; 3 – Susceptible; Blank – Insufficient Data

12 NORTHERN LEAF BLIGHT CAUTION: In conditions where Northern Leaf Blight (NLB) is present, growers should consider planting only products with at least moderate NLB resistance ratings of 4 or higher.

13 SOYbean FUSARIUM RESPONSE - NLB: Probability of positive yield response to foliar fungicide applications when significant levels of Northern Leaf Blight (NLB) disease is present. HP - High Probability; MP - Moderate Probability; LP - Low Probability. Probabilities based upon product disease scores. Because of the unlimited number of growing environments, cropping practices, and foliar fungicide active ingredient combinations possible, Pioneer makes no recommendation regarding this foliar fungicide crop response information.

14 GIBBERELLA EAR ROT CAUTION: Ratings based upon visual symptoms at harvest. Significant damage in the past, growers should consider planting only products with at least moderate Gibberella ear rot ratings of 4 or higher.

15 GREY LEAF SPOT PRECAUTION: Avoid planting products with a lower grey leaf spot (GLS) rating in continuous corn fields that have a history of GLS infection, unless tillage operations that burn significant amounts of corn residue and inoculum are practiced.

16 SILAGE CRM (Comparative Relative Maturity): With no industry standard for silage maturity, corn products with conventional and hybrid maturity and harvest moisture among corn-for-silage products is difficult. Pioneer silage CRM ratings provide a relative comparison among Pioneer product of rates at which product reach harvestable whole-plant-moistures. It is on the same scale as the CRM rating provided for grain-com product and does not represent actual days for planting or emergence to harvest moisture or half milkline.

17 SILAGE YIELD FOR MATURITY: Based on tons/acre (adjusted to 30% dry matter) from multi-year comparison of products within a maturity range not exceeding 5 silage CRM units.

18 STARCH AND SUGAR: Percent starch and soluble sugars (SMB) basis in the whole-plant sample predicted by NIRS.

19 WHOLE PLANT DIGESTIBILITY: Whole plant dry matter digestibility measurements (in-vitro cellulase) and nutrient profiles (starch, acid detergent fibre), as predicted by Near Infrared Reflectance Spectroscopy (NIRS).

20 FIBRE DIGESTIBILITY: Enzymatic estimate of percent degradable neutral detergent fibre (NDF) as a percent of total NDF in whole-plant samples, predicted by NIRS.

21 SILAGE CRUDE PROTEIN: Based on the amount of crude protein in the whole plant. predicted by NIRS.

22 MILK OR BEEF PER ACRE: 9 = Outstanding; 1 = Poor. Based on University of Wisconsin MILKO206 utilizing silage, nutrient content and digestibility.

23 MILK OR BEEF PER TON: 9 = Outstanding; 1 = Poor. Based on University of Wisconsin MILKO206 utilizing silage yield, nutrient content and digestibility.

HERBICIDE PRODUCT MANAGEMENT GUIDE: Under certain environmental conditions any corn product can be injured by any herbicide. This guide can assist in selecting and managing herbicide programs. It is based on replicated research trials and field observations. See your Pioneer sales representative or herbicide representative regarding herbicide families that require careful management. Always read and follow all label instructions and precautions. Pioneer makes no warranty regarding the herbicide crop response information in this guide.

ADEQUATE TOLERANCE. With this particular product, available research field or field observations indicate this herbicide is unlikely to result in material corn injury under normal circumstances.

REQUIRES CAREFUL MANAGEMENT. With this particular product, available research field or field observations indicate this herbicide may exhibit crop injury in challenging environments such as heavy rainfall, integrated browning or seedling emergence, sandy soils, soil low in organic matter, high pH soils, or during periods of excessively cold, hot, dry or wet weather. University research indicates products in this herbicide class may vary in their degree of crop selectivity. The potential for herbicide interaction may also be impacted by the labeled herbicide rate used and the method or timing of application.

CROP RESPONSE WARNING. With this product in field observations and/or research crop injury occurred. This herbicide is under evaluation for crop injury, but is not approved for use. University research indicates products in this herbicide class may vary in their degree of crop selectivity. The potential for herbicide interaction may also be impacted by the labeled herbicide rate used and the method or timing of application.

INSUFFICIENT DATA. Additional testing is needed to evaluate this product.

APM: Chloroacetamide and Other’s tested was Hansen (registered in the United States). This family also includes Dual A Magnus, Axiom, DuPont Battalion® and Frontier.

BENZIDINE ACID (Synthetic Auran) tested was Banvel. The Phenoxy family includes 2,4-D. The rating represents these products and others in pre-packaged mixes. Products may exhibit greater early season Breakdown when several Axiom, Axiom or Phenoxy herbicides are used. In most cases, B/B breakdown is complete within the initial 3-5 weeks of application.

ISOKAZOLE (H-PHDP Inhibitors) tested was Balance Pro (registered in the United States, registered name Converge in Canada). The herbicide prevents the biosynthesis of a photosynthetic pigment (carotenoid). The carotenoid pigment prevents the development of chlorophyll. Susceptible plant will turn white and chlorotic.

SU (involvacyclic, ALS Inhibitor) tested was Option, unsafened DuPont® Basis Gold®, Resolve or Orin (registered in the United States). This family also includes...
DuPont™ Accent®, Em and Ultim. A similar family called sulfanilamide includes Feldest. CAUTION: Some sulfonylurea products have label restrictions on products with maturity shorter than 2500 CHU. Review the herbicide label before applying any sulfonylurea product to products less than 2500 CHU.

Ratings in this guide are based on data collected through 2019 harvest.


SOYBEAN FOOTNOTES

IMPORTANT: Trait rating scores provide key information useful in selection and management of Pioneer® brand products in your field. Information and ratings are based on comparison with other Pioneer brand products, not competitive products. Information and scores are assigned by Pioneer Research Managers. Scores are based on period-of-years testing through 2019 harvest and were the latest available at time of printing. Some scores may change after 2020 harvest. Scores represent an average of performance of data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as one component of your product positioning decision. Refer to Pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Pioneer brand product.

1 HERBICIDE RESISTANCE: Varieties with the glyphosate tolerant trait (including those designated by the letter “R” in the product number) contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Always follow grow marketing, stewardship) practices and pesticide label directions. Varieties with the Generity® Roundup Ready 2 Yield® (RR2Y) trait contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Varieties with Generity® Roundup Ready 2 Xtend® (BRX2) technology contain genes that confer tolerance to dicamba and glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Generity®, Roundup®, Roundup Ready 2 Yield® and Roundup Ready 2Xtend® are trademarks or registered trademarks of Monsanto Technology LLC used under license. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

Varieties with BOLT® technology provide excellent plant-back flexibility for soybeans following application of SU (sulfonylurea) herbicides. Varieties with the LibertyLink® (LL) gene are resistant to Liberty® herbicide, LibertyLink® and the Water Droplet are trademarks of BASF. Enlist® E3 soybeans contain the Enlist® E3 trait that provides crop safety for use of labelled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D-containing herbicide products that may be used with Enlist® crops are products that feature Colex-D technology and are expressly labelled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist E3 soybeans. WARNING: Enlist E3 soybeans are tolerant of over-the-top applications of glyphosate, glufosinate, and 2,4-D. Accidental application of incompatible herbicides to this variety could result in total crop loss. When using 2,4-D herbicides, growers agree to only use 2,4-D products that contain Colex-D technology and are expressly labelled for use in conjunction with Enlist E3 soybeans. Always read and follow herbicide label directions prior to use.

Enlist® and Enlist Duo® are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Additional product-specific stewardship requirements for Enlist crops, including the Enlist® Product Use Guide, can be found at www.EnlistCanada.ca. Always read and follow label directions.

The transgenic soybean event in the Enlist® E3 soybean was jointly developed and owned by Dow AgroSciences LLC and M.S. Technologies, L.L.C. “Enlist®, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of The Dow Chemical Company (“Dow”) or an affiliated company of Dow Excellence Through Stewardship is a registered trademark of Excellence Through Stewardship.

(-) Variety does not contain a herbicide resistant gene.

1 PERFORMANCE: Rating based on speed and strength of emergence in sub-optimal temperatures. 7 - Excellent; 6 = Very Good; 5 = Good; 4 = Average; 3 = Poor; 2 = Fair; 1 = Poor; (-) = Not Available.

2 SCN RESISTANCE SOURCE: There are three sources of genetic resistance to SCN currently deployed in the marketplace: PI393799, PI664922 (also known as Peking) and PAJL21564 (also known as Hartung). R = Resistant

3 RELATIVE MATURITY: Shows the relative maturity group rating, with the first digit representing the general maturity group, and the second digit showing the variety within the group on a scale of 0 to 9 with 0 early and 9 late. For example, a soybean variety with a relative maturity rating of “7” would be a mid-late variety in Group I maturity.

4 FIELD EMERGENCE: Rating based on speed of emergence in sub-optimal temperatures. 7 - Excellent; 6 = Very Good; 5 = Good; 4 = Average; 3 = Poor; 2 = Fair; 1 = Poor; (-) = Not Available.

5 PHYTOPHORA RESISTANCE GENE: (-) No specific gene for resistance. 1a = Provides resistance to races 1-2, 10-11, 13-18, 24 1e = Provides resistance to races 1-6, 11, 13, 17, 21, 23, 24, 26, 28-30, 32, 34, 36 1c = Provides resistance to races 1-10, 13-15, 17, 18, 21-24, 26, 27, 2b, 3a + Resistance to races 1-5, 8-9, 11-14, 16, 18, 21, 23, 25, 26-29, 32, 35-39, 41, 43-45, 47-52, 54 6 + Provides resistance to races 1-6, 10, 12, 14, 16-18, 21-25, 28, 33-35

5 PHYTOPHORA FIELD TOLERANCE: Varieties with high tolerance scores have demonstrated an ability to thrive in the presence of Phytophthora races to which they lack specific resistance. In some varieties, tolerance is expressed only after the early seedling growth stage, making such varieties susceptible to stunting off during emergence and early seed growth.

6 SOYBEAN CYST NEMATODE [SCN]: Resistance to each of the major SCN races is scored on a 1-9 scale: 9 = Excellent resistance; 7 = Very good resistance; 6 = Good resistance; 5 = Average resistance; 4 = Below average resistance; 3-2 = Susceptible; 1 = Highly susceptible; to the specific race indicated.

7 APhID ANTIBIOSIS: A type of resistance that measures the plant’s ability to naturally reduce the rate of growth, survival and reproduction of soybean aphids on soybean plants. Antibiosis is measured by comparing the rate of aphid reproduction on different varieties. Since no varieties currently on the market offer complete resistance to aphids, growers should use these antibiosis ratings as a pest management tool (not a variety selection tool) to help determine field scouting and insecticide application priorities.

6 Exceptional; AA = Above Average; A = Average; BA = Below Average antibiosis ratings. For example, varieties with exceptional ratings display much lower aphid reproduction compared to varieties with average and below average ratings.

8 WHITE MOULD: Scores based on Pioneer research observations of comparative white mould tolerance among various soybean varieties across multiple locations and years. All varieties are capable of developing white mould symptoms under severe infestations. To our knowledge, there are no totally resistant varieties in the industry. However, differences exist in the ability of varieties to tolerate white mould i.e., the rate at which the infection develops and the extent of damage it caused. These scores reflect these differences.

9 CANOPY WIDTH: 9 = Extremely bushy; 1 = Narrow

10 ANTI-SHATTERING: 9 = Excellent tolerance to shattering; 1 = Poor tolerance to shattering.

11 PLANT HEIGHT FOR MATURITY: 9 = Tall; 1 = Short

12 PER CENT PROTEIN AT 13% MOISTURE: Compare data within table only. Values can vary widely by growing season and region.

13 PER CENT OIL AT 13% MOISTURE: Compare data within table only. Values can vary widely by growing season and region.

14 HILA COLOUR: BL = Black; BR = Brown; G = Grey; IB = Imperfect block; Tn = Tan; BF = Buff; Y = Yellow (Clear)

15 SEED SIZE RANGE: Expressed in seeds per pound under normal growing conditions. Range is calculated over multiple years and locations. Since seed size may vary by growing season and region, check the “seeds/ pound” information printed on the bag.

HERBICIDE PRODUCT MANAGEMENT GUIDE: This guide can assist you in managing herbicide programs with Pioneer® brand soybeans. Pioneer uses molecular markers, lab, and/or field testing to evaluate soybean variety tolerance to several herbicides.

Research has shown good correlation between molecular markers and varietal response to preplant or pre-emergence applications of metribuzin.

Please note that these ratings are not correlated with tolerance to exposure or application of these herbicides after soybean emergence. Metribuzin, and all PPO herbicides can injure soybeans when applied after emergence. Crop injury can also occur when metribuzin or PPO-treated soil is splashed onto soybean stems, cotyledons, or foliage. Challenging environments such as heavy rainfall during seeding germination or seeding emergence, sandy soils, soil low in organic matter or high in silt soils, or during periods of excessively cold, hot, dry or wet weather can result in higher herbicide activity or reduced crop tolerance. In such cases, crop injury may occur on varieties rated as having acceptable tolerance to the herbicide. University research indicates herbicides within an herbicide class may vary in their degree of crop selectivity. The potential for herbicide injury may also be impacted by the labeled herbicide rate used and the method or timing of application.

17 SULFENTRAZONE AND SAFFOLKMAX: Herbicides that contain Sulfentrazone and Saffolkmax include Authority brands, Defiant, Integrity and Eragen. Always read and follow label herbicide directions.

18 METRIBUZIN: Herbicides that contain Metribuzin include Canopy® PRO, TriCor®, Sensco® and Boundary. Always read and follow herbicide label directions.

The following herbicide sensitivity ratings are for sulfentrazone, saflufenacil and metribuzin:

- Adequate Tolerance. Available research and/or field observations suggest this herbicide is unlikely to result in material injury to this particular variety under normal circumstances.

- Requires Careful Management. Available research and/or field observations suggest this herbicide may exhibit crop injury to this particular variety in challenging environments.

- Response Warming. Available research and/or field observations suggest this herbicide has a high potential for crop injury to this particular variety.

- Insufficient Data. Additional testing is needed to evaluate this variety
**ALFALFA FOOTNOTES**

1 HERBICIDE RESISTANCE: Genry® and Roundup Ready® are registered trademarks used under license from Monsanto Company. HarvTara® is a registered trademark of Forage Genetics International, LLC. HarvTara® alfalfa with Roundup Ready® technology is enabled with technology from The Samuel Roberts Nobel Foundation, Inc. Do not export Pioneer® brand alfalfa seed or crops containing Genry® or Roundup Ready® technology including hay or hay products, to China pending import approval. Always Read and Follow Pesticide Label Directions. Alfalfa with Roundup Ready® technology provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. Glycophosphate agricultural herbicides will kill crops that are not tolerant to glyphosate. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS. Pioneer is a member of Excellence Through Stewardship® (ETS). Pioneer products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to, used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their processor or grain handler to confirm the processor or handler’s position on products being purchased. For further information on the approval status of biotech traits, please visit www.biostatedata.com. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

2 FORAGE YIELD: 9 Very High; 8 High; 7 Good; 6 Medium; 5 Poor. Rating based on 2013-2019 paired comparison data for trials located in the U.S. and Canada.

3 MILK YIELD PER ACRE: 9 = Outstanding; 8 = Very Good; 7 = Good; 6 = Medium; 5 = Poor. Estimated milk yield per acre is based on Wisconsin 199206 formula representing the combined impact of forage yield, nutrient content and digestibility.

4 WINTER HARDINESS: VH = Very Hardy; H = Hardy.

5 DISEASE RESISTANCE INDEX: DR is a disease index based on the following pests: Bacterial wilt, Verticillium wilt, Fusarium wilt, Anthracnose, and Aphanomyces (Race 1) and Aphanomyces (Race 2). HR = 5 points; R = 4 points; MR = 3 points; LR = 2 points; N = 1 point. Highest possible DR = 35 points.

6 STANDABILITY/LODGING RESISTANCE: Scores based on plant lodging observations (% of stems ≤65° angled averaged across various areas of adaptation.

**STEWARDSHIP REQUIREMENTS**

Planting Limitation: GENRR and HVX alfalfa planting is not permitted for wildlife feed plots and not for the production of sprouts. Growers who plant alfalfa with GENRR and HVX technology by flying on seed must be responsible to prevent and control any resulting feral alfalfa. Hay and Forage Production: Alfalfa with GENRR and HVX technology should be managed for high quality hay/forage production, including timely cutting to promote high forage quality (i.e., before 10% bloom) to prevent seed development. Additionally, HVX gives growers the option to slightly delay harvest for higher tonnage without sacrificing acceptable forage quality, while still preventing seed. In geographies where commercial alfalfa seed production is intermingled with forage production, alfalfa with GENRR and HVX technology must be harvested at or before 10% bloom to minimize potential pollen flow to conventional alfalfa. Alfalfa growers in such areas must also control any feral alfalfa resulting from the use of alfalfa containing GENRR and HVX technology. Growers in other areas should harvest before 50% bloom. Growers who are unwilling or who cannot make this commitment to stewardship should not plant or continue to grow alfalfa with GENRR and HVX technology.

**COMPLIANCE REQUIREMENTS**

Alfalfa containing GENRR and HVX technology is for sale and planting only in the Ontario and Quebec Canadian provinces, and not for the production of sprouts or seed. Any product produced from an alfalfa crop or seed containing GENRR and HVX technology, including hay and hay products, may only be used, exported, processed or sold in countries where regulatory approvals have been granted. Always read and follow pesticide label directions that have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers may be required to provide copies of records, receipts, and other sales-related documents to Corteva Agriscience, including during an audit or inspection consistent with the Corteva Agriscience Product Use Guide, including the portions relating to alfalfa with HVX and GENRR technology. Producing a seed crop or a seed catch crop is prohibited except under an authorized seed production contract. Also, alfalfa with GENRR and HVX technology is not permitted to be planted in any wildlife feed plots.

Technology Use Agreement: The Corteva Agriscience Technology Use Agreement provides growers the opportunity to purchase, plant and benefit from alfalfa varieties with GENRR and HVX technology. Monsanto Company’s Roundup Ready gene technology is protected under U.S. patent law. Signing and acceptance of the Corteva Agriscience Technology Use Agreement is necessary before the seed can be delivered to the grower.

Seed & Feed Use Agreement: Additionally, all plantings of HVX shall include execution by the grower of a Seed and Feed Use Agreement noting that HVX can only be used on farm or otherwise used in Canada.

China Export Restriction: Prior to planting GENRR and/or HVX technology, please be aware that while many import market approvals have been granted, alfalfa seed of varieties with GENRR and/or HVX technology, and hay and hay products grown from seed of varieties with GENRR and/or HVX technology, are restricted from export to China.

**INOULANT 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 Forage Research, based on an average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future products. Product responses are variable and subject to any number of environmental, disease and pest pressures. Please use this information as only part of your product positioning decision. Refer to www.pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Sila-Bac® brand product.

1 RAPID REACT® aerobic stability technology. Improved aerobic stability and reduced heating is relative to unvented silage. 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 compaction will determine inoculant efficacy.

FERMENTATION: Rate and extent of pH decline and the composition of fermentation byproducts (BUNKLIFE) up to the time of opening the bunker.

BUNKLIFE: Relative heat development compared to ambient temperature. Bunklife considers both how quickly silage begins to heat and the amount of heat generated while remaining above ambient temperature.

FIBRE DIGESTIBILITY: The digestibility of neutral detergent fibre (NDF) by the ruminant animal expressed as a percentage of the total NDF.

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

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

2 PLANT HEIGHT: 9 = Outstanding; 8 = Very Good; 7 = Good; 6 = Medium; 5 = Poor. Lower scores = shorter

**CANOLA FOOTNOTES**

**IMPORTANT:** Trait rating scores provide key information useful in selection and management of Pioneer® brand products in your area. Information and ratings are based on comparisons with other Pioneer brand products, not competitive products. Information and scores are assigned by Pioneer Research Managers. Scores are based on period-of-years testing through 2019 harvest and were the latest available at time of printing. Some scores may change after 2020 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision. Refer to www.pioneer.com/Canada or contact a Pioneer sales representative for the latest and most complete listing of traits and scores for each Pioneer® brand product.

1 HERBICIDE TOLERANT HYBRID: Hybrids with the Genry® 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 (see herbicide label). Labelling Roundup herbicide should only be used over the top of those hybrids and varieties that carry the Roundup Ready designation. Roundup Ready® is a registered trademark of the Bayer Group. Hybrids with the LibertyLink® gene (LL) are resistant to Liberty® herbicide. Liberty®, LibertyLink® and the Water Droplet Design are trademarks of BASF.

2 MATURITY: 5 = Medium-Early; 6 = Medium.

3 SCLOEROTINA: 9 = Highly Resistant; 8 = Moderately Resistant; 7 = Susceptible.

4 CLUBROOT RESISTANCE: 9 = Resistant. 

5 CLUBROOT RESISTANCE: 9 = Highly Resistant; 1 = Susceptible.

6 BLACKLEG: R = Resistant; MR = Moderately Resistant.

7 BLACKLEG: R = Resistant; 1 = Susceptible.

8 FUSARIUM WILT: R = Resistant.

9 EARLY GROWTH: 9 = Excellent; 1 = Poor. Recorded when plants are at 4-6 leaf stage. Rating based on relative plant health and leaf size.

10 GREEN SEED CONTENT: 9 = Very low count (desired); 1 = Very high count.

11 STANDABILITY: 9 = Upright (desired); 1 = Severely lodged.

12 STRAIGHT CUT: E = Excellent; V = Very Good; G = Good; A = Average.

13 PLANT HEIGHT: 9 = Tall; 1 = Short (desired).

14 OIL CONTENT: Oil content is compared to long-term check Pioneer® brand 45SH2. A change of one score represents approximately one per cent difference in oil content.