From seed to harvest
Pioneer® brand products and services
2018
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Not all Pioneer® brand products are included in this guide.
See your Pioneer Hi-Bred sales representative for information on all our products, or go to pioneer.com/Canada
Welcome to the DuPont Pioneer Seed-to-Harvest Guide for 2018

We take great pride in providing you with high-quality, top-performing seed and crop protection products, that deliver high yield potential, top performance and maturities that suit where and how you farm. Our seed products, and our people, also help you overcome key challenges that threaten to limit your profitability.

In canola, we are making some great advances. Farmers have come to trust Pioneer® brand canola seed with Pioneer Protector® traits. Last year, we were the first to launch built-in protection against both sclerotinia and clubroot in one canola hybrid. As well, we introduced the Pioneer Protector® HarvestMax trait that delivers built-in resistance to pod shatter, allowing for flexibility at harvest, and maximum yield. For 2018, we are proud to introduce a canola hybrid, 45CM36, with the Pioneer Protector® HarvestMax CR traits, featuring resistance to both clubroot and pod shatter. Another first.

In the coming years, we expect to make the LibertyLink® technology commercially available in our elite canola genetics, for your canola crop. At the same time, we also plan to introduce Pioneer® brand Optimum® GLY, a novel glyphosate resistance trait.

With more and more prairie farmers growing corn, Pioneer® brand corn seed products are leading the way – bred in Western Canada and backed by the best team of people, who are with you every step of the way.

When you put Pioneer® brand seed in your planter, you’ll know you’re growing the best corn genetics on the market. You can choose a hybrid that suits where you’re farming and the end-use you’re growing for (grain corn, silage or grazing). Your local Pioneer Hi-Bred sales representative adds even more value, with the advice and service you need to grow corn and make good money doing it.

With the recent grower interest in planting soybeans, DuPont Pioneer is offering six new soybean varieties for 2018. Our trusted T Series soybeans performed well in 2016, and NEW for your 2018 crop, we are introducing the next level in soybean performance, with our A-Series soybeans. These new soybeans were developed using our Accelerated Yield Technology, which helps develop higher yielding soybeans in less time.

The DuPont Pioneer and DuPont Crop Protection teams are committed to your success. Our agronomic know-how, local expertise and dedication to our customers continue to be key reasons why growers choose Pioneer® brand seed products and DuPont crop protection products.

On behalf of all our people in Western Canada, thank you for making us a part of your success. We hope you have a safe, productive and profitable 2018.

With a 90-year legacy of high yielding product performance and four research stations across the prairies, your Pioneer® brand canola, corn and soybean products are bred close to home, so they yield more where it matters most – on your farm.
The Yield Hero Contest is a great opportunity for you to share your proudest moments on the farm, when you get to announce the high yields of your Pioneer® brand seed products.

This contest is open to all Manitoba, Saskatchewan, Alberta, or British Columbia growers who have purchased Pioneer® brand canola, soybean or corn seed products, through a Pioneer Hi-Bred sales representative.

How to Qualify:

• Purchase a minimum of 8 units (80 acres) of Pioneer® brand canola seed, 16 units (40 acres) of Pioneer® brand corn seed or 50 units (30 acres) of Pioneer® brand soybean seed.
• Pioneer® brand seed must be purchased through a Pioneer Hi-Bred sales representative.
• Only commercial product of Pioneer® brand seed will qualify.
• Irrigation of designated field is not allowed.
• Yield of the contestant’s field must be measured by a Pioneer Hi-Bred sales representative and weigh wagon.
• Yield monitors will not be accepted.

How to Enter:

There are two ways to enter the 2017 Yield Hero Contest:

1. Enter through your Pioneer Hi-Bred sales representative - Contact your local Pioneer Hi-Bred sales representative and have him/her submit your weigh to DuPont Pioneer through the DuPont Pioneer Trials System.
2. Enter through Twitter - Complete the weigh with your PHI sales representative, let him/her take a picture of you with your yield results on our fancy yield board, then tweet your results to @PioneerWCanada with the hashtags #YieldHero #WestCanAg and include your picture. Improve your odds of winning by entering the contest through both methods!

The contest opens on Monday, August 14th, 2017 at 12:00 a.m. CST and closes on Sunday, November 19th, 2017 at 11:59 p.m. CST.

Grand Prize:

• The grand prize is a trip for 2 to attend the final curling weekend of the 2018 Tim Hortons Brier in Regina, SK.

There will be 21 grand prize winners in total. The 15 highest entries of those 21 grand prize winners will be selected from all of the DuPont Pioneer Trials System corn and canola data submissions (1 per account manager). The remaining 6 of those 21 grand prize winners will be selected from all entries submitted to the @PioneerWCanada Twitter handle. The highest canola yield entry from SK, MB and AB, the highest soybean yield entry from SK and MB, and the highest corn yield entry from MB, will be deemed the grand prize winners from Twitter.

All canola and soybean weights entered through the DuPont Pioneer Trials System submission method must be submitted by 11:59 PM CST on Sunday, October 29th, 2017. All corn weights entered through the DuPont Pioneer Trials System submission method must be submitted by 11:59 PM CST on Sunday, November 19th, 2017.

Twenty-one grand prizes and two ways to enter to win! Use both entry methods to improve your odds!

The contest opens on Monday, August 14th, 2017 at 12:00 a.m. CST and closes on Sunday, November 19th, 2017 at 11:59 p.m. CST.

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The 2016 Yield Hero Winners Across Western Canada

<table>
<thead>
<tr>
<th>Grower Name</th>
<th>Town</th>
<th>Province</th>
<th>Crop</th>
<th>Pioneer® brand / variety</th>
<th>Yield (bu/ac)</th>
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<tbody>
<tr>
<td>Barry Reese</td>
<td>Didsbury, AB</td>
<td>AB</td>
<td>Corn</td>
<td>45H33 RR</td>
<td>91.9</td>
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<tr>
<td>Florian Hagmann</td>
<td>Blech Hills</td>
<td>SK</td>
<td>Corn</td>
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<tr>
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<td>Leask</td>
<td>SK</td>
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<td>Corn</td>
<td>4S540 RR</td>
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<tr>
<td>Chamulka Farms</td>
<td>Nisku</td>
<td>AB</td>
<td>Corn</td>
<td>45CS40 RR</td>
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<tr>
<td>Elmer Enns</td>
<td>Rosthern</td>
<td>SK</td>
<td>Corn</td>
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<td>Benito</td>
<td>MB</td>
<td>Corn</td>
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<td>Grand Coulee</td>
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<td>Gary Sanocki</td>
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</tbody>
</table>

For complete contest information and rules, please visit https://ca.pioneer.com/west/en/events-contests/
On farms across Western Canada, growers count on canola to make a strong contribution to the bottom line. You invest a lot to grow a great crop and DuPont Pioneer believes your investment should be protected. Our canola hybrids with Pioneer Protector® traits do exactly that.
More ways to protect your canola and your business.

In recent years, growers have come to trust Pioneer® brand canola seed with Pioneer Protector® traits, for protection against some of the key challenges of growing canola: sclerotinia, which surfaced in a number of fields in 2016; clubroot, a devastating disease threat in Alberta every year; and the risk of harvest losses from pod shatter. In 2016, canola hybrids with Pioneer Protector® Plus traits were introduced as the first and only canola seed products to protect you against both diseases at once. Canola hybrids with the Pioneer Protector® HarvestMax trait deliver protection against harvest losses due to pod shatter. And NEW for 2018, Pioneer Protector® HarvestMax CR traits safeguard against clubroot and harvest losses due to pod shatter.

NEW Pioneer Protector® HarvestMax CR

New Pioneer® hybrid 45CM36 delivers both Pioneer Protector® HarvestMax and Pioneer Protector® clubroot resistance traits, with a new source of built-in clubroot resistance. This revolutionary hybrid offers exceptional yields, flexibility to swath or straight cut at harvest, and provides resistance to new variants of clubroot races 2 and 3.

Pioneer Protector® Plus

In 2016, DuPont Pioneer was the first and only company to develop a canola hybrid in Western Canada – Pioneer® hybrid 45CS40 – with built-in disease protection from both sclerotinia AND clubroot.

Pioneer Protector® HarvestMax

Last year, DuPont Pioneer was the first company to introduce a Genuity® Roundup Ready® canola hybrid with pod shatter resistance, reducing the risk of harvest losses due to pod shatter. This year, we are building on that success by offering another high yielding product, Pioneer® hybrid 45M38.

Pioneer Protector® Sclerotinia*

Since 2008, DuPont Pioneer has continued to introduce high-yielding canola hybrids with built-in sclerotinia resistance for Western Canadian growers.

Pioneer Protector® Clubroot

In 2009, DuPont Pioneer was also the first to introduce clubroot resistant canola hybrids into the market. We continue to develop high yielding hybrids with clubroot resistance, and for 2018, offer another competitive product – Pioneer® hybrid 45H37.

*Field results show that Pioneer Protector® sclerotinia resistance can reduce the incidence of sclerotinia in a canola crop by over 60%. Individual results may vary. Depending on environmental and agronomic conditions, growers planting canola hybrids with the Pioneer Protector® sclerotinia resistance traits may still require a fungicide application to manage sclerotinia in their crop.

Look for the Pioneer Protector® logo on high-performing canola hybrids this season.

It’s a symbol of canola seed traits that protect your yield and your business.

Flexibility at harvest, no matter how you cut it.

Heading into the growing season, there’s a lot you don’t know about your canola crop. When will you be able to plant it? When will the crop be ready for harvest? What other demands will there be on your time and your harvest equipment? Finally, will you swath or straight-cut your canola?

You need flexibility and here’s the good news. Canola hybrids with the built-in Pioneer Protector® HarvestMax trait give you more control at harvest time.

Pioneer Protector® HarvestMax trait delivers:

- Strong seed pods
- Swath timing flexibility
- Ability to straight cut
- Maximum yield potential

Grower benefits:

- Peace of mind
- Flexibility in harvest timing
- Higher returns
- Later harvest means pods have more time to fill
- More seed in the bin – less lost to shatter
- Potential for more profit per acre
- Fewer volunteers to control the following year

Photo courtesy of DuPont Pioneer, 2015

Photo courtesy of DuPont Pioneer, Weyburn, Saskatchewan, 2015

Photo courtesy of DuPont Pioneer, August 2014

Photo courtesy of DuPont Pioneer, Lloydminster, AB

NEW

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Photo courtesy of DuPont Pioneer, 2015

Photo courtesy of DuPont Pioneer, Weyburn, Saskatchewan, 2015

Photo courtesy of DuPont Pioneer, August 2014

Photo courtesy of DuPont Pioneer, Lloydminster, AB

NEW
Blackleg

Management of blackleg in canola

Today’s shortened canola rotations have increased the risk of blackleg damage in Western Canada. Blackleg disease is harboured on canola stubble. According to research, one and two-year stubble is associated with high blackleg spore loads.

How can a grower reduce the incidence of blackleg?

1. Always choose a canola product with a complete package of yield, disease resistance and agronomic characteristics that are best for your operation.
2. Crop rotation is key. Tight rotations do not allow enough time for disease-bearing stubble to break down in the soil. If blackleg is a concern, a break of at least two years between canola crops can be effective in reducing blackleg in subsequent crops.

How does DuPont Pioneer select for blackleg resistance in canola?

• DuPont Pioneer currently uses adult stem (quantitative) resistance, and is working toward delivering canola hybrids with both seedling (qualitative) and adult plant resistance.
• Resistance at the stem level can provide more durable product performance in situations where selection pressure for overcoming resistance is increased (e.g. high canola frequency in rotations).
• A combination of both seedling and adult plant resistance will be critical to control a changing blackleg pathogen population.
• DuPont Pioneer has the capability to deliver a canola hybrid with a combination of both seedling and adult plant resistance.
• We have quantitative resistance in our canola hybrids, which involves many genes, giving our canola products stability and performance, across many different environments.

Classification of Pioneer® brand canola products for blackleg resistance

The official blackleg classifications given to canola products are based on disease ratings taken at a number of testing sites over a two-year period.

• Several blackleg strains exist at these testing sites.
• DuPont Pioneer selects hybrids which show a consistent resistant reaction at all sites.
• Our rating scale for resistance to blackleg is scored from 1 (susceptible) up to 9 (resistant).

The images to the right show blackleg infected canola stems. The letters above the stems on the right side photo represent the WCC/RRC rating system for susceptible to resistant canola hybrids and the numbers along the bottom represent the DuPont Pioneer rating system for screening canola hybrids for resistance to blackleg.

Clubroot

Pioneer Protector® Clubroot Resistance

Clubroot is a serious disease that threatens several parts of Western Canada, particularly Alberta. Left unmanaged, clubroot can cause up to 80% yield loss in infected fields.

Compare the healthy roots of a clubroot-resistant canola hybrid (below left) to the severely damaged, clubroot-susceptible hybrid, with characteristic galls showing (below right).

For the last 7 years, DuPont Pioneer has led the way in clubroot management, since introducing the Pioneer Protector® clubroot resistance traits in high-performing Pioneer® brand canola hybrids. Now, DuPont Pioneer has taken another step in reducing the risk of this devastating disease, by developing a NEW source of clubroot resistance.

• The new source of clubroot resistance in Pioneer® hybrid 45CM36 has built-in resistance to two new variants of races 2 & 3 along with our multi-race resistance package with protection against races 2, 3, 5, 6 and 8.
• Our industry-leading Pioneer® brand canola genetics provide maximum yield potential.
• Many of our current canola hybrids contain our consistent, multi-race clubroot resistance – providing a high level of resistance to the most prevalent race of clubroot (race 3) and resistance to races 2, 5, 6 and 8.
• Pioneer Protector® clubroot resistance traits reduce production of clubroot spores.
• Gives you peace of mind that your crop and your investment will be protected.

Managing clubroot in canola

• Proper agronomic and sanitation practices are key to preventing and minimizing the spread of clubroot.
• In clubroot-confirmed areas, maintain a one-in-four year rotation.
• Clubroot is a soil-borne disease, so growing a canola hybrid with the Pioneer Protector® clubroot resistance traits will not increase the risk of clubroot resistance on a following crop if clubroot is suspected on that field.
• Planting clubroot resistant canola hybrids keeps the clubroot inoculum from building up on a particular field.
Canola Hybrids

Feature Products

43E03
- Very early maturity hybrid
- Above average early growth
- “MR” for blackleg
- Low green seed count

45H33
- High-yielding clubroot resistant hybrid
- Built-in Pioneer Protector® clubroot resistance trait (races 2, 3, 5, 6 & 8)
- Excellent early growth
- “R” for blackleg and fusarium wilt

45S56
- High-yielding hybrid with built-in Pioneer Protector® sclerotinia resistance trait
- Very good standability
- “MR” for blackleg
- “R” for fusarium wilt

45H75
- Excellent early growth
- Outstanding standability and harvestability
- “R” for blackleg
- Clearfield® production system provides exceptional weed control with Ares™ herbicide

45CM36
- The first canola hybrid with both Pioneer Protector® HarvestMax and Pioneer Protector® clubroot resistance traits
- Exceptional early growth and yield potential
- Very good lodging score
- “R” for blackleg and clubroot
- Contains a new source of clubroot resistance
- Swath or straight cut - you decide!

New Canola Products

45H37
- Outstanding early growth and yield potential with the Pioneer Protector® clubroot resistance trait
- Excellent field emergence
- Very good lodging score
- “R” for blackleg and clubroot
- Swath or straight cut - you decide!

45M38
- Good yield potential and maximum harvest flexibility. Swath or straight cut - you decide!
- Excellent early growth
- Very good lodging score
- Superior blackleg resistance

Canola Numbering System

Example: 45H33
- 4 = Canola
- 3 – 6 = Relative Maturity
- H = Canola Hybrid
- ** = Number represents Roundup Ready® tolerant canola
- 3 = Denotes random number of seed product

*Some Pioneer® brand canola products will have an “S” designation indicating Pioneer Protector® clubroot resistance specific to races 1 and 2. **Some Pioneer® brand canola products specifically designed for OnePass seed product will have a “CS” designation.

WINNER
2015 & 2016!

45H33
- High-yielding clubroot resistant hybrid
- Built-in Pioneer Protector® clubroot resistance trait (races 2, 3, 5, 6 & 8)
- Excellent early growth
- “R” for blackleg and fusarium wilt

45M35
- Maximum yield and harvest flexibility in one package. Swath or straight cut - you decide!
- Very good standability
- Excellent early growth

45CM36
- The first canola hybrid with both Pioneer Protector® HarvestMax and Pioneer Protector® clubroot resistance traits
- Exceptional early growth and yield potential
- Very good lodging score
- “R” for blackleg and clubroot
- Contains a new source of clubroot resistance
- Swath or straight cut - you decide!
### Canola

**Characteristics**

<table>
<thead>
<tr>
<th>Product</th>
<th>Characteristic Ratings</th>
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<tr>
<td>43E03</td>
<td>MR 6 1 R 7 9 5 6 7</td>
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<tr>
<td>45H33</td>
<td>R 7 1 R 8 8 7 G 8 7</td>
</tr>
<tr>
<td>45H37*</td>
<td>R 7 1 R 8 8 8 G 7 7</td>
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<tr>
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<td>46M34</td>
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<td>45CM36*</td>
<td>R 7 1 R 8 8 7 VG 7 7</td>
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<tr>
<td>45M38*</td>
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<tr>
<td>45H76</td>
<td>R 8 1 R 8 8 7 G 8 7</td>
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* New

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**Industry-leading canola yields**

<table>
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<tr>
<th>Product</th>
<th>Yield Increase</th>
<th>% WINS</th>
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<tbody>
<tr>
<td>45CM36</td>
<td>53.4 bu/ac</td>
<td>83%</td>
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<tr>
<td>45H33</td>
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<tr>
<td>46H75</td>
<td>50.3 bu/ac</td>
<td>79%</td>
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Pioneer® hybrid 45CM36 is for canola growers who want a high yielding, clubroot resistant canola that can be straight cut or swathed. The 45CM36 delivers maximum yield and harvest flexibility in one package.

Pioneer® hybrid 45H33 has yield, standability and clubroot resistance in one package. Canola hybrid with Pioneer Protector® HarvestMax traits with outstanding yield potential and very good standability.

Canola hybrid with Pioneer Protector® HarvestMax traits with outstanding yield potential and very good standability.

Superior yield and standability with the Clearfield® trait.

For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 41.
Protect Your Seed Investment.

Key Grower Benefits:
- Control of early season cutworms in canola
- Enhanced protection against crucifer and striped flea beetles
- New class of chemistry (Group 28) for resistance management
- Excellent early season seedling stand establishment, vigour and biomass
- Up to 35 days of protection through the critical stages of seedling growth

SEE THE LUMIDERM® DIFFERENCE IN CUTWORM CONTROL
Cutworms are a real problem in canola production. If you’re not paying close attention to your fields, they can destroy a significant portion of your crop in a matter of days.

- Cutworms are very difficult to detect since they typically live underground during the day and feed at night
- During the first 35 days of seedling growth, Lumiderm® helps protect your canola from cutworm feeding, which can enhance early season stand establishment and crop vigour

SEE THE LUMIDERM® DIFFERENCE IN ENHANCING FLEA BEETLE PROTECTION
Crucifer and striped flea beetles can cause significant damage to canola crops across Western Canada. Lumiderm® insecticide seed treatment offers enhanced protection against flea beetles, to help maximize your canola yield.

- Lumiderm® provided a 35% reduction in flea beetle damage, 14-35 days after seeding, in 192 trials across Western Canada*
- Growers have achieved a 1.4 bu/acre advantage over the standard treatment, across Western Canada**

How do you know if Lumiderm® insecticide seed treatment is working?
- Cutworms usually stop feeding with as little as one or two bites of canola seedlings from canola seed treated with Lumiderm®
- Lumiderm® is very fast acting — control is generally achieved within 72 hours of feeding

Protect Your Canola, Soybeans and Corn Against Disease.

- Canola plants that are infected with sclerotinia can lose up to half their yield.
- Yield loss in soybean crops is primarily the result of white mould. With high severity, yield losses may approach 40-50%. Additionally, soybean standability and seed quality may be reduced.

More Complete Coverage
- Rapidly absorbed, moving quickly into and within each plant
- This allows you to spray even when conditions are challenging

4 Unique Movement Properties
- Acapela® is a one-of-a-kind fungicide that quickly and efficiently surrounds, penetrates, and protects the leaf and stem

Plant Performance Benefits
- In addition to outstanding disease control, Acapela® supports positive plant performance, even in stressful conditions
- Acapela® increases chlorophyll content and plant productivity

Higher Yield Potential
- Better coverage means more consistent protection, providing outstanding disease control for greener, healthier crops and higher yield potential
- More moves means more bushels

**Canola yield averaged across 157 DuPont demonstration strips in Western Canada from 2013-2015.
Partner Product

JumpStart® inoculant helps to increase the availability of soil and fertilizer phosphate

JumpStart® is an inoculant containing the naturally occurring soil fungus *Penicillium bilaiae*. *Penicillium bilaiae* releases bound mineral forms of soil and fertilizer phosphate, making it more readily available for the plant to use.

**Increase availability of soil and fertilizer phosphate for:**
- Enhanced early vigour
- Increased root growth and leaf surface area
- Earlier flowering
- Improved crop uniformity
- Increased number of pods and pod-bearing branches

Order your canola seed pre-treated with JumpStart® inoculant!

For more information, visit UseJumpStart.ca

The information set forth above is based on statements made by the manufacturer(s) and not by DuPont Pioneer. Interested parties should independently determine if the information posted herein is current or whether changes or new information is available from the manufacturer.

Always read and follow label directions.

JumpStart® is a trademark of Monsanto Technology LLC, Monsanto Canada, Inc. licensee.

Stay tuned for information on how you can save big on all your acres when you purchase both Pioneer® brand seed and select DuPont crop protection products.

Corn is a crop you must consider in Western Canada when looking at the yield potential and returns per acre that can be achieved. DuPont Pioneer is leading the way in developing high-yielding corn seed products with maturities to suit the growing conditions of Western Canada.
Grain Corn Seed Products

Feature Products

P7005AM™

2000 heat units
- Ultra early maturity
- Excellent yield potential
- Exceptional test weight scores
- Good husk cover

P7202AM™

2050 heat units
- Ultra early maturity
- Produces large kernels with superior test weight
- Good root strength

P7211HR

2050 heat units
- High yielding with early maturity
- Produces large kernels with good test weight

P7213R

2050 heat units
- Very early hybrid
- Balanced agronomic package
- Very good root strength
- Excellent choice for grain corn

39V05

2250 heat units
- Late-flowering hybrid
- Above average root strength
- Very good drought tolerance

P7632AM™

2225 heat units
- Optimum® AcreMax® product delivering integrated refuge for above-ground insect control
- Good drought tolerance
- Excellent root strength and husk cover

P7958AM™

2275 heat units
- Optimum® AcreMax® product delivering integrated refuge for above-ground insect control
- Very good drought tolerance and root strength
- Moderate Goss’s wilt resistance

39V09AM™

2275 heat units
- Above average Goss’s wilt resistance
- Good root strength
- Very good drought tolerance
- Good grain drydown

P8210HR

2475 heat units
- High yielding corn hybrid for Manitoba with very good standability
- Very good stalk strength for ease of harvest

P8387AM™

2500 heat units
- Excellent yield potential
- Good Goss’s wilt resistance
- Choice of harvest management - used for silage or grain

New Corn Products

P7227R

2125 heat units
- Excellent grain corn and silage corn yield potential
- Exceptional drought resistance score
- Average Goss’s wilt resistance
- Very good grain dry down
- Average stalk strength and root strength
- Average grain test weight

P7527AM™

2150 heat units
- Very early product with excellent drought tolerance and protection against corn borer
- Excellent yield potential
- Average Goss’s wilt resistance
- Very good grain dry down
- Average stalk strength and root strength
- Average grain test weight

39V05

2250 heat units
- Late-flowering hybrid
- Above average root strength
- Very good drought tolerance

Pioneer® Grain Corn Seed Products

WINNER 2016!

P8387AM™

2500 heat units
- Excellent yield potential
- Good Goss’s wilt resistance
- Choice of harvest management - used for silage or grain

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- Choice of harvest management - used for silage or grain

Pioneer® Grain Corn Seed Products

WINNER 2016!
NEW Sortan™ IS herbicide will allow growers to remove early season weed pressure, including volunteer Roundup Ready® canola, which is key to maximizing yield and profits in corn.

**Application Timing**

Sortan™ IS can be used as a pre-emergent or post-emergent application (spike to V3 stage). Recommended to tank-mix with a glyphosate herbicide at 365 g ai/acre (900 g ai/ha) for control of additional weeds (glyphosate-tolerant corn only).

- **Remove Early-Season Weed Competition**
- **Resistance Management**
- **Extended Control**
- Pre-Emergent Rate: 38 g/acre, 40 acres/bottle
- Post-Emergent Rate: 15 g/acre – 30 g/acre, 40 – 80 acres/bottle
- Packaging: 1.2 kg bottle
- Tank-Mix: Tank-mix with a glyphosate herbicide at 365 g ai/acre (900 g ai/ha) for control of additional weeds (glyphosate-tolerant corn only).
- Water Volume: Minimum 40 L/acre (9 imp. gal/acre)
Silage Corn Seed Products

Feature Products

39F44
2000 heat units
- Ultra-early silage hybrid suitable for short growing season areas in Western Canada
- Very good silage characteristics

39F05
2250 heat units
- Late-flowering hybrid
- Above average root strength
- Very good drought tolerance

39B90
2200 heat units
- Above average root strength and stalk lodging resistance
- Strong agronomic package

39V05
2250 heat units
- Late-flowering hybrid
- Above average root strength
- Very good drought tolerance

39V09AM™
2275 heat units
- Good Goss’s wilt resistance
- Good root strength
- Very good drought tolerance

P7632AM™
2225 heat units
- Optimum® AcreMax® product delivering integrated refuge for above-ground insect control
- Good drought tolerance
- Excellent root strength and husk cover

P7958AM™
2275 heat units
- Optimum® AcreMax® product delivering integrated refuge for above-ground insect control
- Very good drought tolerance and root strength
- Moderate Goss’s wilt resistance

New Silage Products

P7227R
2125 heat units
- Exceptional yield potential
- Exceptional drought resistance score
- Average Goss’s wilt resistance
- Average stalk strength and root strength
- Average grain test weight

P7527AM™
2150 heat units
- Very early product with excellent drought tolerance and protection against corn borer
- Excellent yield potential
- Average Goss’s wilt resistance
- Average stalk strength and root strength
- Average grain test weight

P8210HR
2475 heat units
- High yielding corn hybrid for Manitoba with very good standability
- Very good stalk strength for ease of harvest

P8387AM™
2500 heat units
- Excellent yield potential
- Good Goss’s wilt resistance
- Multi-purpose corn product – silage or grain corn

P8542AM™
2550 heat units
- High yielding silage corn product
- Very good root strength
- Very good drought tolerance

P8581R
2575 heat units
- Solid silage scores
- Excellent silage yield potential

P8906AM™
2650 heat units
- Exceptional silage yield potential
- High tonnage seed product with high quality

P8700AM™
2600 heat units
- New high yield potential product with very good Northern leaf blight tolerance and excellent drought tolerance
- Excellent silage yield
- Excellent whole plant digestibility

P8700AM™
2600 heat units
- New high yield potential product with very good Northern leaf blight tolerance and excellent drought tolerance
- Excellent silage yield
- Excellent whole plant digestibility
Grazing Corn

Corn offers a high quality and high quantity feed choice that will outperform other feed options available to producers for winter grazing beef cattle.

In grazing situations, corn will help lower your cost of production, increase your cow-days per acre, and maintain cow health and condition throughout the winter grazing season.

Some things to consider when planning for winter grazing your corn crop:

### Corn Hybrid Choice & Management for Grazing
- Choose a hybrid that is 150-300 CHU later than your corn heat unit area to reduce risk of acidosis and increase palatability
- Plant multiple hybrids to cover off an earlier or later season – 2-3 hybrids spread over 100-200 CHU differences
- Choose a hybrid that is 150-300 CHU later than your corn heat unit area to reduce risk of acidosis and increase palatability

**Grazing Management & Monitoring**
- Take a whole-plant representative feed sample and have a feed test analysis completed
- Limit to small grazing paddock (2-3 hours of grazing)

**FAQ's**

**How many acres do I need to graze my cows?**

- Expect between 150 - 300 cow-days per acre

**General Needs for Beef Cows When Winter Grazing Corn**
- Choose a hybrid that is 150-300 CHU later than your corn heat unit area to reduce risk of acidosis and increase palatability
- Plant multiple hybrids to cover off an earlier or later season – 2-3 hybrids spread over 100-200 CHU differences

**Initial Feed Introduction**
- Gradually introduce corn feed, especially for naive cows
- Full rumen entry recommended
- Supplemental feed recommended based on feed analysis
- Limit to small grazing paddock (2-3 hours of grazing)

**Grazing Expenses**
- Barley Feed: $1.21
- Corn Feed: $1.12

<table>
<thead>
<tr>
<th>Grazing Expenses (cost/cow/day)</th>
<th>Barley Feed</th>
<th>Corn Feed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. Barangley Feed</td>
<td>$1.21</td>
<td></td>
</tr>
<tr>
<td>Approx. Corn Feed</td>
<td>$1.12</td>
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</table>

<table>
<thead>
<tr>
<th>Input Costs</th>
<th>Approx. Barley Input Costs</th>
<th>$180 / acre</th>
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</thead>
<tbody>
<tr>
<td>Approx. Corn Input Costs</td>
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</tbody>
</table>

**Approximate Economics of Swath Grazing**

<table>
<thead>
<tr>
<th>Grazing 100 – 1000 lb cows for 30 days</th>
<th>Silage Yield</th>
<th>Input Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley wet weight yield (Ton/acre)</td>
<td>8</td>
<td>$180 / acre</td>
</tr>
<tr>
<td>Corn wet weight yield (Ton/acre)</td>
<td>12</td>
<td>$260 / acre</td>
</tr>
</tbody>
</table>

**How many acres do I need to graze my cows?**

- Expect between 150 - 300 cow-days per acre
- 200 cows grazing for 30 days will need: 30 days X 200 cows = 6000 cow grazing days required. Based on 200 cow-days per acre, you would require: 6000 cow grazing days / 200 cow-days per acre = 30 acres of corn

**What will my feed cost be?**
- Range from $0.70 – $1.40 per cow per day including yardage
- Corn produces more tons of feed per acre
- Fewer acres are required to feed the same amount of animals

**Corn As An Important Feed Source For Animals**

Our corn silage products provide excellent early starch production for high energy feed and an early silage harvest. They also feature excellent stay green characteristics for green harvest and high tonnage.

**Key Benefits of Planting Corn for Silage**
- Corn has lower starch digestion rates per hour in rumen than barley, which means possibly lower incidence of acidosis, and better balance between rumen fermentation and intestinal digestion
- When considering the best silage option for your operation, look first at the importance of starch in the animal diet.
- Corn produces almost 2X the tons of wet silage harvested per acre than barley
- Corn also has better water use efficiency compared to wheat, barley or oats (Teutsch, 2013)

**Things to Keep in Mind About Corn Silage**
- When considering the best silage option for your operation, remember the importance of starch as an energy source in the diet.
- At silage maturity, the corn plant is still producing starch – the longer it stays in the field, the more starch is produced
- To ensure silage success adhere to proper silage whole plant moisture when determining harvest timing
- When comparing costs of barley silage versus corn silage, use a per ton basis – while per acre costs are higher for corn silage, production costs on a per ton basis favour corn silage

**How Nutrient Composition Compares for Barley and Corn Silages**

**Corn Silage Nutrients**
- Starch 20%
- Energy sources in corn
  - 65% grain
  - 15% cell contents
  - 25% NDF (fiber)

**Barley Silage Nutrients**
- Starch 12%
- Other non-fiber carbohydrates 17%
- Fat 3%
- Ash 3%
- Crude Protein 12%
- Sugar 2%
- Fiber (NDF) 56%
- Energy sources in barley silage
  - 72% grain
  - 10% cell content
  - 18% NDF (fiber)

**Barley vs Corn: Average Tons of Wet Silage Harvested/Acre**
- Acres required to produce 10,000 tons/acre of silage:
  - Average barley silage yield 6.75 tons (wet)/acre = 1481 barley acres needed
  - Average corn silage yield 12.5 tons (wet)/acre = 800 corn acres needed
  - Corn silage can free up 680 acres available for alternative crops on your farm

**Corn silage on a per ton basis is more cost effective than barley silage**
## Characteristics

* New

For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 41.

### Characteristics Ratings

<table>
<thead>
<tr>
<th>Product</th>
<th>Characteristics</th>
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<tbody>
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<td>P7202X™</td>
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<td>P7332X</td>
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<td>P7527X™</td>
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<td>P967X</td>
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</tbody>
</table>

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Pioneer® brand Optimum® AcreMax® and Herculex® Products

Maximized yields and simplified refuge compliance

DuPont Pioneer is committed to delivering integrated refuge products that provide growers with increased flexibility and convenience for insect resistance management (IRM). Pioneer® brand Optimum® AcreMax® and Herculex® products bring multiple modes-of-action for insect protection, to help increase overall farm yields by reducing refuge and extending the durability of important traits.

<table>
<thead>
<tr>
<th>Technology Segment Identifiers</th>
<th>Corn Technology Traits*</th>
<th>Insect Efficacy Levels</th>
<th>Herbicide Resistance</th>
</tr>
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<tbody>
<tr>
<td>RR2</td>
<td>Roundup Ready® Corn 2</td>
<td>E</td>
<td>E</td>
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<tr>
<td>LL</td>
<td>LibertyLink®</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>YXR, LL, RR2</td>
<td>Optimum® Intrasect® Xtra, LibertyLink, Roundup Ready Corn 2 (Corn Borer/Rootworm)</td>
<td>E G M E V E V E E G</td>
<td>E E</td>
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<tr>
<td>AM, LL, RR2</td>
<td>Optimum® AcreMax®, LibertyLink, Roundup Ready Corn 2 (Corn Borer)</td>
<td>E G M E V E V E E G</td>
<td>E E</td>
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<td>AMX, LL, RR2</td>
<td>Optimum® AcreMax® Xtra, LibertyLink, Roundup Ready Corn 2 (Corn Borer/Rostorm)</td>
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<td>E E</td>
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<tr>
<td>AMXT, LL, RR2</td>
<td>Optimum® AcreMax® XTreme, LibertyLink, Roundup Ready Corn 2 (Corn Borer/Rostorm)</td>
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<td>E E</td>
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<tr>
<td>HX1, LL, RR2</td>
<td>Herculex® I, LibertyLink, Roundup Ready Corn 2 (Corn Borer)</td>
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<td>E E</td>
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<tr>
<td>HXX, LL, RR2</td>
<td>Herculex® XTRA, LibertyLink, Roundup Ready Corn 2 (Corn Borer/Rostorm)</td>
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<td>E E</td>
</tr>
<tr>
<td>YGCB, RR2</td>
<td>YieldGard® Corn Borer, Roundup Ready Corn 2 (Corn Borer)</td>
<td>E M G E E</td>
<td>E E</td>
</tr>
</tbody>
</table>

E = Excellent  V = Very Good  G = Good  M = Moderate  Blank = Not Labeled

Efficiency scores based on DuPont Pioneer and/or independent, university entomologist results against susceptible insect populations. Product responses can vary by location, pest population, environmental conditions, and agricultural practices.

*Information is provided as a service to the reader. It is not intended to replace the need to apply common sense and good agricultural practices. Sole reliance on the information provided may be dangerous and could result in significant losses. Some Refuge Examples

**Herbicide Tolerant (LL, RR2)**

- YieldGard® Corn Borer (YGCB) x Herculex® I (HX1) + Herculex® II (R2)
- LibertyLink®
- Roundup Ready®

- Integrating refuge, no separate refuge required

- Refuges Examples

**Refuge Examples**

<table>
<thead>
<tr>
<th>Pests Controlled or Suppressed</th>
<th>Description</th>
<th>Benefits</th>
<th>Refuge</th>
<th>Refuge Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
<td>Broad spectrum, above-ground insect protection</td>
<td>• Above-ground protection from corn borer and black cutworm</td>
<td>20% refuge up to 1/4 mile or 400m away</td>
<td>Herbicide Tolerant (LL, RR2)</td>
</tr>
<tr>
<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
<td>Single bag product with integrated corn borer refuge</td>
<td>• Ultimate simplicity</td>
<td>Integrated refuge, no separate refuge required</td>
<td>YGCB, RR2</td>
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<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
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<td>• Simplifies refuge</td>
<td>Integrated refuge, no separate refuge required</td>
<td>Herculex® I (HX1) + Herculex® II (R2)</td>
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<tr>
<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
<td>Single bag product with integrated corn borer and corn rootworm refuge</td>
<td>• Simplifies refuge</td>
<td>Integrated refuge, no separate refuge required</td>
<td>Herculex® I (HX1) + Herculex® II (R2)</td>
</tr>
</tbody>
</table>

**Technology Segments**

<table>
<thead>
<tr>
<th>Technology Segment</th>
<th>Insect Efficacy Levels</th>
<th>Herbicide Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E</td>
<td>E</td>
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<td></td>
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<td>E G M E V E V E E G</td>
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</tbody>
</table>

**E** = Excellent  **V** = Very Good  **G** = Good  **M** = Moderate  **Blank** = Not Labeled

Efficiency scores based on DuPont Pioneer and/or independent, university entomologist results against susceptible insect populations. Product responses can vary by location, pest population, environmental conditions, and agricultural practices.

*Information is provided as a service to the reader. It is not intended to replace the need to apply common sense and good agricultural practices. Sole reliance on the information provided may be dangerous and could result in significant losses. Some Refuge Examples

**Herbicide Tolerant (LL, RR2)**

- YieldGard® Corn Borer (YGCB) x Herculex® I (HX1) + Herculex® II (R2)
- LibertyLink®
- Roundup Ready®

- Integrating refuge, no separate refuge required

- Refuges Examples

**Refuge Examples**

<table>
<thead>
<tr>
<th>Pests Controlled or Suppressed</th>
<th>Description</th>
<th>Benefits</th>
<th>Refuge</th>
<th>Refuge Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
<td>Broad spectrum, above-ground insect protection</td>
<td>• Above-ground protection from corn borer and black cutworm</td>
<td>20% refuge up to 1/4 mile or 400m away</td>
<td>Herbicide Tolerant (LL, RR2)</td>
</tr>
<tr>
<td>European Corn Borer, Fall Armyworm, Black Cutworm</td>
<td>Single bag product with integrated corn borer refuge</td>
<td>• Ultimate simplicity</td>
<td>Integrated refuge, no separate refuge required</td>
<td>YGCB, RR2</td>
</tr>
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<td></td>
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</tbody>
</table>
Put your field data to work to help maximize your yields
Keep your fields at your fingertips and capture important information with this GPS-powered field documentation tool that lets you put your data to work to help make decisions that boost profits. With Encirca™ services you can manage from field planning through harvest to ensure a successful growing year. During the season, monitor crop health and field weather with satellite imagery. After harvest, working with your Pioneer Hi-Bred sales representative, you can gain valuable insights on field productivity and management practices to support decisions for next season.

• Product placement plans
• As-planted and as-applied
• Management practices
• Yield data

Advanced science and analytics with soils, weather and agronomy to deliver:
• Field planning
• Harvest insights

Allows for year round contact between you and your Pioneer Hi-Bred sales representative, helping to:
• Manage risk
• Produce higher yields
• Reduce costs per bushel

Encirca™ services app is available for iOS and Android devices. Talk to your Pioneer Hi-Bred sales representative or your DuPont Pioneer Area Agronomist to see how Encirca™ services can benefit your farming operation.

DuPont Pioneer has developed soybean varieties to suit a much wider area of Western Canada. Take a few minutes and discover how our Pioneer® brand T Series and now NEW A-Series soybean varieties deliver what you need: early maturity, good harvest standability and excellent yield potential.
NEW Pioneer® brand A-Series soybeans are based on Accelerated Yield Technology (AYT) 4.0, a game-changing advancement over current competitive soybean varieties.

The Next Big Improvement In Yield Technology

Accelerated Yield Technology (AYT) 4.0 has transformed how DuPont Pioneer develops new soybean varieties. AYT more than doubles the annual rate of genetic gain of the DuPont Pioneer soybean research pipeline, and effectively cuts one year from the product development process.

What Pioneer® brand A-Series Soybean Varieties Can Do For You:

• Maximize yield and profitability on your soybean acres
• Provide varieties suited to all environments in Western Canada
• Additional herbicide-tolerant trait option for hard-to-kill weeds like kochia and wild buckwheat

A-Series Yield Results

In 2016, Pioneer® brand A-Series soybeans delivered higher yields than current Pioneer® brand T Series soybean varieties.

3.4 bu/acre increase 83% WINS
P00263R VS P002T04R

2.6 bu/acre increase 78% WINS
P007A970R VS P008T70R

Delivers 99% control* of foxtail barley
Controls both Japanese brome and downy brome
Controls volunteer wheat, volunteer barley, wild oats, green foxtail and a number of other grassy weeds

For high performing grass control, add Assure® II to glyphosate in Genuity® Roundup Ready® canola and in glyphosate tolerant soybeans
Excellent crop safety and wide window of application

Assure® II + Glyphosate Provides Premium Grass Control in Canola

Source: Carman, MB, 2015

Assure® II Provides Premium Control of Volunteer Corn

Source: Altheaiken, AR, 2013

*Research conducted by Agriculture and Agri-Food Canada at Lethbridge for in-crop control for oilseeds and pulses (Source: Direct Seeding fact sheet, Lethbridge Research Centre; Revised October 2007, Agdex 519-15)
Soybeans

Feature Products

P008T22R2
2475 heat units
- Genuity® Roundup Ready 2 Yield® soybean variety
- Very good plant height for maturity
- Excellent harvest standability
- Built-in phophthora resistance (phytophthora gene 1C)
- Very good tolerance to iron chlorosis

P007A43R
2200 heat units
- NEW ultra early soybean
- Excellent yield potential
- Strong field emergence
- Excellent harvest standability
- Very good anti-shattering score
- Built-in (1K) phytophthora resistance

P005A87R
2275 heat units
- NEW ultra early soybean
- Very good field emergence
- Narrow canopy soybean
- Excellent harvest standability
- Good anti-shattering score

P002A19X
2325 heat units
- NEW early maturity soybean with RR2X technology for improved control of some key weeds
- Very good field emergence
- Built-in (1K) phytophthora resistance
- Very good harvest standability
- Additional option for weed control

P005T13R
2400 heat units
- Very good early emergence
- Excellent harvest standability and lodging scores
- Built-in (1C) phytophthora resistance

P006T78R
2425 heat units
- Very good early emergence
- Narrow canopy soybean
- Excellent harvest standability
- Very good anti-shattering score
- Built-in (1C) phytophthora resistance

P006T46R
2425 heat units
- Very consistent, high yielding soybean
- Excellent lodging reduction scores
- Excellent harvest standability
- Above average white mold tolerance
- Built-in (1C) phytophthora resistance

Soybean Numbering System
Example: P006T46R
- P Denotes a Pioneer® brand product
- 006 Relative Maturity
- T/A Denotes “T Series/A-Series”
- 46 Random Number (0-99)
- R Segment Identifier:
  - R = Glyphosate Tolerant

P002A63R
2325 heat units
- NEW soybean with exceptional yield potential
- Excellent field emergence
- Narrow canopy soybean
- Excellent harvest standability
- Very good anti-shattering score
- Built-in (1C) phytophthora resistance

P007A90R
2450 heat units
- NEW high yielding 007 maturity group soybean variety with excellent harvestability
- Excellent field emergence
- Taller plant with moderate canopy width
- Built-in (1C) phytophthora resistance

Pioneer® brand soybeans with the Roundup Ready® 2 Xtend trait offer you a resistance management tool to help protect your A-Series soybean yield when glyphosate resistant and hard-to-kill weeds (kochia and wild buckwheat) are present.

For complete definitions and disclaimers related to product descriptions, characteristics ratings and disease ratings, and all other information contained herein, see page 42.
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Alfalfa

**Feature Products**

**P63ME70**  
**Mid-Oleic / NuSun® Oil**  
- Built-in tolerance to Express® herbicide  
- Outstanding yield potential  
- Solid agronomic package

**P63ME80**  
**Mid-Oleic / NuSun® Oil**  
- Excellent yield potential  
- Outstanding oil content  
- Very good stalk and root strength

**Pioneer® Brand Products**

Sunflowers

**Feature Products**

**63A21**  
**Linoleic**  
- Early maturity short stature hybrid  
- Excellent emergence  
- Very good drydown  
- Shorter plant height

**55V50**  
**New Leader Variety In The Muscle Segment**  
- High resistance ratings for phytophthora and aphanomyces race 1 and 2  
- High overall root rot resistance

54Q14  
**New Lodging Resistant Variety**  
- Combines high forage quality with agronomic lodging resistance  
- Improved standability with more upright stems  
- Very good winterhardiness

**55Q27**  
**High Forage Quality**  
- Top yielding variety with aggressive regrowth adapted for dairy quality forage production  
- Very good winterhardiness and excellent disease resistance  
- High suitability for heavy soils where root rot is a concern  
- Holds high fiber digestibility for a longer period of time, good for an extended harvest window

**Product Characteristics**

<table>
<thead>
<tr>
<th>Product</th>
<th>Mid-Oleic (NuSun® Oil)</th>
<th>Linoleic (Conventional Oil)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P63ME70</td>
<td>27 8 6 6 7 9 6 8 8 7 7 7 6 6 8 14 5 5</td>
<td>29 7 8 7 4 8 8 7 9 7 1 4 4 3 3 3 1 6 4</td>
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<tr>
<td>P63ME80</td>
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<td>29 7 8 7 4 8 8 7 9 7 1 4 4 3 3 3 1 6 4</td>
</tr>
</tbody>
</table>

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All Pioneer® brand alfalfa seed products listed above are non-Roundup Ready® resistant.

---

**Sunflowers**

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** Characteristics**

<table>
<thead>
<tr>
<th>Product</th>
<th>Muscle/High Yield Varieties</th>
<th>Forage Quality Varieties</th>
<th>Premium Dormant Blend</th>
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<tbody>
<tr>
<td>54Q29*</td>
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<td>8 4 9 9 9 9 34 HR HR HR HR R R R MR R</td>
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<td>55Q27</td>
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<td>8 4 9 9 9 9 34 HR HR HR HR R R R MR R</td>
<td>7 4 9 VII 9 7 31 HR R HR R MR R R R</td>
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<tr>
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<td>8 4 9 9 9 9 34 HR HR HR HR R R R MR R</td>
<td>7 4 9 VII 9 7 31 HR R HR R MR R R R</td>
</tr>
</tbody>
</table>

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All Pioneer® brand alfalfa seed products listed above are non-Roundup Ready® resistant.
Introducing Sila-Bac® brand Nutrivail™ Feed Technology

Fibre technology has a new name
New name, same impressive bottom-line-boosting technology. Introducing Sila-Bac® brand Nutrivail™ feed technologies, formerly known as Fibre Technology (FT) products. Nutrivail™ feed technologies — 11CFT, 11GFT and 11AFT — are now a part of this growing family that improves the value of your homegrown feed by increasing nutrient availability of forages while aiding fermentation and reducing heating at feeding.

SILA-BAC® BRAND FORAGE ADDITIVES:
CROP-SPECIFIC OPTIONS USING PATENTED, PROPRIETARY BACTERIAL STRAINS

<table>
<thead>
<tr>
<th>Sila-Bac® brand Inoculants</th>
<th>Sila-Bac® brand Nutrivail™ Feed Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>1174 Multi-Crop</td>
<td>11H50 Alfalfa</td>
</tr>
<tr>
<td>11CFT Corn Silage</td>
<td>11AFT</td>
</tr>
</tbody>
</table>

- **Improves fermentation and reduces dry matter loss**: X X X X X X X X
- **Improves nutrient conservation**: X X X X X X X X
- **Significantly reduces heating on bunker/pile face**: X X X X X X X X
- **Helps reduce heating in entire TMR**: X X X X X X
- **Improves fibre digestibility**: X X

*New Rapid React™ aerobic stability technology
† Improved aerobic stability and reduced heating is relative to untreated silage. Actual results may vary. The effect of any silage inoculant is dependent upon management at harvest, storage and feedout. Factors such as moisture, recycling, chop length and compaction will determine inoculant efficacy.

---

Staying Connected
With DuPont Pioneer
Whether you’re in the field, the office or on the road, you have year-round access to the crop management resources you need at pioneer.com/Canada

- **Pioneer® Seed Guide App**
  (Available for iPhone®, iPad®, and iPod® touch. Requires iOS 8.0 or later)
  Everything you need to know about Pioneer® brand seed products, right at your fingertips.
  
- **Canola Seed Rate Calculator**
  (Available for iPad® and iPhone®, Requires iOS 6.0 or later)
  The Pioneer® Canola Seed Rate Calculator can easily estimate canola seeding rates and final stand. It will help you calculate your target seeding rate in pounds per acre, adjusting for seed size, germination, survivability and row spacing.

- **Planting Rate Estimator**
  (Available for iPhone®, Requires iOS 5.0 or later)
  The Pioneer® Planting Rate Estimator allows users to examine historical yield response curves to help estimate an optimum planting rate for Pioneer® brand corn products.

- **Pioneer® Field360™ Plantability**
  (Available for iPhone®, iPod® touch and iPad®. Requires iOS 7.0 or later)
  Easily scan a seed tag to indicate the planter type, maximize planter performance and seed-drop accuracy.

- **Inoculant Value Calculator**
  (Available for iPad®. Requires iOS 7.0 or later)
  The Pioneer® Inoculant Value Calculator will assist you with estimating the value of Pioneer® brand inoculants for your farm. The Inoculant Value Calculator (IVC) will help you to evaluate the benefits of reduced shrink, improved bunklife, reduced feed inputs, feed cost savings/cow/day and total added value from investment.

- **Pioneer® GrowingPoint™ Agronomy App**
  (Available for iPhone®, iPad®, and iPod® touch. Requires iOS 7.1 or later)
  The new Pioneer® GrowingPoint™ agronomy app gives you access to hundreds of agronomy insights, articles and photos on your mobile device. Get answers about weed and pest control, best practices for crop management and much more.

- **Snapchat**
  Follow us on Snapchat at PioneerWCanada
  Follow our Snapchat account for the latest in-field agronomics and Pioneer® brand seed product updates in Western Canada.

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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 42.
Our local sales representative network is committed to helping you grow a successful crop under your local conditions. Contact your Pioneer Hi-Bred sales representative today!

### Alberta

- **Craig Schmidt**  
  Barrhead (780) 674-0224

- **Brian Olfeit**  
  Bezanson (780) 402-1355

- **Jill Feniasik-Splate**  
  Boyle/Smokey Lake (780) 689-9332

- **GWG Frank Ag Inc.**  
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- **YOUst Enterprises Ltd.**  
  Calgary (403) 701-3927

- **Herb Dehoog**  
  Camrose (780) 608-5862

- **Ian Berwick**  
  Clyde/Westlock (780) 689-9332

- **Maureen Black**  
  Consort (403) 575-1275

### British Columbia

- **ReNew Ag**  
  Abbotsford (604) 859-7128

### Manitoba

- **Floyd Farms Inc.**  
  Arborg (204) 797-7554

- **Intermountain Ag Supply Ltd.**  
  Ashville (204) 648-3089

### Saskatchewan

- **Crop Care Ag Consulting Ltd.**  
  Sexsmith (780) 518-9688

- **Myron Zabolotniuk**  
  St. Albert (780) 915-6920

- **Gerald Frodchuk**  
  St. Brides (780) 614-8610

- **S & S Seed Corp.**  
  Rolla (250) 219-1778

### Growth Science Potential Services Ltd.

- **Regina**  
  Swift Current (306) 892-9448

- **Regina**  
  Moose Jaw (306) 693-1919

- **Regina**  
  Estevan (306) 482-3863

- **Regina**  
  Delisle (306) 847-9447

### Nova Scotia

- **Atlantic Ag Supply Ltd.**  
  Truro (902) 893-4440

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  Truro (902) 893-4440

### New Brunswick

- **All In Farm Services Ltd.**  
  Kinsbourne (506) 883-4302

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### Yukon

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- **All In Farm Services Ltd.**  
  Kinsbourne (506) 883-4302

### Sales Contact Information

- **Platinum Farm Services Ltd.**  
  Mallard (780) 650-0040

- **Exclusive Seeds**  
  Manor (780) 836-0140

- **Land Seed & Agro Services Ltd.**  
  Minburn (780) 632-5526

- **North Point Agronomy Ltd.**  
  Star (780) 691-2981

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  Stettler (403) 741-9067

- **Jenna Waltz**  
  Vermilion (780) 853-3873

- **JSK Sales & Service Ltd.**  
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- **Jenna Waltz**  
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- **Taylor Groenenboom**  
  Vermeer (780) 836-0797

- **_skb Farms Ltd.**  
  Waskatenau (780) 656-6333

- **Crop Care Ag Consulting Ltd.**  
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- **Lorraine (780) 836-0140**  
  Crop Care Ag Consulting Ltd.  
  Whitlock (780) 485-7128

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  Whitlock (780) 485-7128
Sales Contact Information

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Travis Holland
Aurora (306) 988-7710

Beyond the Seed Ag Marketing
Biggar (306) 951-7490

405 Ag Solutions
Borden (306) 230-4573

The Rack Petroleum
Broderick (306) 867-4084

Kun Ag Services
Bruno (306) 369-2728

Jim Bletsky
Canora (306) 563-8888

Rob & Tracey Bletsky Seeds Inc.
Canora (306) 621-6227

49 - 11 Ag Ventures Inc.
Carrot River (306) 401-8900

Mackow Farms
Central Butte (306) 796-8800

Kelsey Ag Ventures Inc.
Chooseeland (306) 769-7887

Bart Rushmer
Codette (306) 276-7764

McPeek Ag Consulting Ltd.
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Colin Schulhauser
Cupar (306) 726-7098

Stone Farms Inc.
Davidson (306) 567-8528

David Blais
Delmas (306) 893-7188

Evolve Ag Ltd.
Edam (306) 441-9772

Mantel Seed Cleaning Ltd.
Estevan (306) 421-2099

Tracey Lievaart
Estevan (306) 421-2662

Tumbling T Farms Ltd.
Gainsborough (306) 482-7975

Jeffery Kuntz
Gerald (306) 745-9170

Hammer Seeds Ltd.
Govan (306) 725-7544

Headland Farm Solutions Ltd.
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Murray Chutskoff
Kamsack (306) 542-7205

Irondeal Ag Services
Kamsack West (306) 542-8670

Mandziak Ag Corp.
Kelliher (306) 795-7510

Full Throttle Farms Ltd.
Kerrobert (306) 460-3070

Pearl Creek Ag Ltd.
Kilalry (306) 720-0324

B & B Ag Solutions
Kindersley (306) 460-4903

Sproat Agro Ltd.
Kipling (306) 550-2247

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Andrew Monchuk
Lanigan (306) 395-7404

KenDen Ag
Meadow Lake (306) 238-7797

Wyett Meyers
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