Farming is a way of life for our family, as it was for our parents and grandparents. Our deep-rooted dedication to the land comes from many years of cultivating the soil and passing our family’s knowledge from one generation to the next. And, we know our partner, and exclusive Western Canadian seed distributor, Quarry Seed, feels the same.

Together, we’ve thrived in the agriculture industry and take pride in every harvest we bring in—knowing it’s the fruits of our families’ hard work and signs of experience we’ve gained.

As farmers, we want you to feel that same pride after every harvest.

Like you, our teams at Thunder Seed and Quarry Seed have a passion for the land and passing down our lessons to our sons and daughters, knowing that our legacy will continue through them. We want you to be confident knowing that the seeds you plant have the best traits for your farm and will continue to evolve to meet the needs of future generations on your farm. This is seed you can count on for years to come.

We’ve provided top-quality, proven seed for nearly 20 years and have distributed it through Quarry Seed and its vast dealer network for 10 years. Thunder Seed’s Western focused genetics are put through Quarry Seed’s extensive and rigorous third-party testing and field trial programs which have become a signature for the company. This means you’ll have the best seed genetics that suit the growing conditions on your farm.

Today, our success in Western Canada through Quarry Seed is in large part because of you, the hard-working, dependable farmers who put in long hours to make sure the work gets done right. You’ve trusted us to help you be successful on the farm and we don’t take that trust for granted. Our friends at Quarry Seed take pride in getting to know you and the challenges you face so they can provide the best seed for the soil conditions on your farm. And, you’ll have the agronomic support you need throughout the season.

Thank you for making Thunder Seed First in your Field.
A Partnership With true grit

Quarry Seed is taking Western Canada by storm. With an expanding dealer network, Thunder Seed’s Canadian distributor is the fastest growing seed house in the region and the second largest seed supplier in Canada. The company, located in Stonewall, Manitoba, has eight employees working full-time to distribute quality seed products.

Quarry Seed is our exclusive distributor in Canada, and we have a lot in common. Hard-working families built both companies to bring results. Together, we push the limits of innovation and knowledge to give customers consistent, valuable yields and service.

The roots of our partnership were planted in the early 1990s, when Ron Gendzelievich was one of the few soybean growers in Western Canada. He experienced firsthand the agronomic challenges in the region, such as a short growing season and cool climates overall. He tried several seed varieties in search of the one that offered the best yield potential.

Ron was impressed with Thunder Seed’s hardworking, farm-family culture, agronomic knowledge and understanding of the challenges growers in Western Canada face year after year. In 2004 he started Quarry Seed, and by 2011 he was selling Thunder Seed exclusively.

Today, Quarry Seed is instrumental to our success in Western Canada, not to mention the success of Thunder Seed growers in the region. The company is a leader in improving bean and corn yields through testing seeding rates, seed treatments, fertility, inoculants and more.

Ron and his team take pride in knowing the culture, the issues growers face and what you value. And when it comes to value, Quarry Seed always delivers with high-quality seed and an unwavering dedication to working hand-in-hand with customers to make sure your seed is performing at its best.
Thunder Seed
Achieve high plant populations with our conventional Thunder Seed varieties. We perform standard and cold-vigor germination testing for high tolerance to colder soils. Our seeds also offer high resistance to diseases, white mold and shattering, and superb standability to prevent lodging. And like all of our seeds, they are bred specifically for your region and adjust to our changing conditions to deliver greater and more consistent yields.

Genesy® VT Double PRO® RIB Complete® Corn Blend
Get superior protection from above-ground insects in a single-bag refuge solution. Genesy® VT Double PRO® RIB Complete® Corn Blend is the first double-stacked trait with dual modes of action. It provides outstanding protection against above-ground pests with even greater protection for corn earworms. And with a blend of 95 percent traited seed and just 5 percent refuge, the lowest in the industry, you’ll get higher yields.

Targets: Corn Earworm, Fall Armyworm, Southwestern Corn Borer, European Corn Borer

Genuity® Roundup Ready 2 Yield®
Get the broadest protection against weeds and the flexibility to apply herbicides the way you need to for the best results on your farm. Our Roundup Ready® corn and soybeans have a high tolerance to Roundup® herbicides for outstanding crop safety to save you time you’d otherwise have to spend weeding. Spend less time spraying now and less time tilling next season.

All of our Genuity® corn products offer the convenience of Roundup Ready® 2 Technology.
From conventional corn to varieties with additional protection, Thunder Seed’s selection has the combination of traits needed for growing success in your fields. These top-performing varieties have strong yields, disease resistance, and are suited to a Western Canadian season.

**TH 7677 VT2P RIB BRAND**
- Relative Maturity 76 Days
- CHU 2175
  - Outstanding yield potential
  - Tall with mid-stalk cob placement
  - Quick out of ground
  - Stands strong for late harvest
  - Roundup® tolerant
  - Corn borer protection

**TH 7578 VT2P RIB BRAND**
- Relative Maturity 77 Days
- CHU 2225
  - Outstanding yield potential
  - Tall with mid-stalk cob placement
  - Quick out of ground
  - Stands strong for late harvest
  - Roundup® tolerant
  - Corn borer protection

**TH 7673 VT2P RIB BRAND**
- Relative Maturity 73 Days
- CHU 2069
  - Lowest heat units in grain corn
  - Quick out of ground
  - Tasseling on par with 7574 VT2P
  - Good stalk strength
  - Mid-stalk cob placement
  - Very good drydown potential & bushels for heat units
  - Roundup® tolerant
  - Corn borer protection

**TH 7574 VT2P RIB BRAND**
- Relative Maturity 74 Days
- CHU 2100
  - Very early flowering, tassel & silk
  - Quick out of ground
  - Fast cob set up
  - Very good drydown-to-yield ratio
  - Great early grain option
  - Roundup® tolerant
  - Corn borer protection

**TH 4574 RR BRAND**
- Relative Maturity 74 Days
- CHU 2075
  - Very early flowering, tassel & silk
  - Quick out of ground
  - Fast cob set up
  - Very good drydown-to-yield ratio
  - Great early grain option
  - Roundup® tolerant

**TH 4578 RR BRAND**
- Relative Maturity 77 Days
- CHU 2200
  - Outstanding yield potential
  - Tall with mid-stalk cob placement
  - Quick out of ground
  - Stands strong for late harvest
  - Could be a silage/grain option
  - Roundup® tolerant

**TH 7578 VT2P RIB BRAND**
- Relative Maturity 77 Days
- CHU 2225
  - Outstanding yield potential
  - Tall with mid-stalk cob placement
  - Quick out of ground
  - Stands strong for late harvest
  - Roundup® tolerant
  - Corn borer protection
NEW! TH 4126 VT2P RIB BRAND
Relative Maturity 79 Days
CHU 2250
- Excellent sister to 2146 RR
- Quick out of ground
- Flint/dent hybrid sets up kernels quickly
- Tall, showy plant with large pineapple leaf
- Large cob/grain potential
- Excellent yield
- Roundup® tolerant
- Corn borer protection

TH 3378 CONVENTIONAL
Relative Maturity 78 Days
CHU 2250
- Full dent
- Early maturing
- Prefers better soils
- Tall plant
- Good silage yield
- Conventional treatment only

NEW! TH 7681 VT2P RIB BRAND
Relative Maturity 81 Days
CHU 2350
- Full dent
- Tall plant
- Early maturing
- Quick cob set up
- Great agronomics
- Nice grazing option to marry with 4188 RR
- Roundup® tolerant
- Corn borer protection

TH 4188 RR BRAND
Relative Maturity 88 Days
CHU 2700
- Grazing option for the West
- High heat unit to marry with a lower heat in field
- Medium-tall height
- Large leaf
- Mid-stalk cob placement
- Very good palatability
- Roundup® tolerant

TH 4126 ORGANIC
Relative Maturity 79 Days
CHU 2250
- Excellent sister to 2146 Organic
- Quick out of ground
- Flint/dent hybrid sets up kernels quickly
- Tall, showy plant with large pineapple leaf
- Excellent yield
- Certified Seed

TH 4126 CONVENTIONAL
Relative Maturity 79 Days
CHU 2250
- Excellent sister to 2146 Conv.
- Quick out of ground
- Flint/dent hybrid sets up kernels quickly
- Tall, showy plant with large pineapple leaf
- Large cob/grain potential
- Excellent yield
- Conventional treatment only
2016 SEED GUIDE - SOYBEANS

SOYBEANS

Our large selection of soybeans means we are able to accommodate your soils' needs and provide disease and pest protection for maximum yields. Our Genuity® Roundup Ready 2 Yield® brands also have a high tolerance to herbicides.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Height</th>
<th>Type</th>
<th>IDC</th>
<th>Yield from MCVET trials</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>TH 3500 R2Y BRAND</td>
<td>RM 07</td>
<td>CHU 200</td>
<td>Semi-Bush</td>
<td>2.2</td>
<td>119%</td>
<td>Above the test mean in spring vigor, Above the test mean in standability, Very early maturity, Extremely adaptable in Western Canada</td>
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<tr>
<td>TH 32004 R2Y BRAND</td>
<td>RM 04</td>
<td>CHU 245</td>
<td>Semi-Bush</td>
<td>1.8</td>
<td>110%</td>
<td>Highest-yielding variety in early-maturity zones, Extremely defensive in adverse conditions, Excellent standability in all row spacings, Great IDC tolerance, Light sensitive</td>
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<tr>
<td>TH 33005 R2Y BRAND</td>
<td>RM 05</td>
<td>CHU 250</td>
<td>Semi-Bush</td>
<td>1.8</td>
<td>112%</td>
<td>Highest yielding variety in Manitoba's full-season maturity zones, Excellent tolerance against white mold, Very aggressive, bushy plant, Excellent spring vigor out of the ground</td>
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<tr>
<td>TH 34006 R2Y BRAND</td>
<td>RM 06</td>
<td>CHU 247</td>
<td>Semi-Bush</td>
<td>2.2</td>
<td>119%</td>
<td>Excellent spring vigor out of the ground, Good yielder for mid-and-full season maturity zones, Branches very well, great fit for 30-inch rows, Very good canopy, Very good stalk strength</td>
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<tr>
<td>TH ASTRO R2Y BRAND</td>
<td>RM 07</td>
<td>CHU 252</td>
<td>Semi-Bush</td>
<td>2.2</td>
<td>112%</td>
<td>Excellent disease package, Strong white mold tolerance, Strong phytophthora tolerance, Very aggressive, bushy plant</td>
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<tr>
<td>TH 36007 R2Y BRAND</td>
<td>RM 07</td>
<td>CHU 250</td>
<td>Semi-Bush</td>
<td>2.0</td>
<td>112%</td>
<td>Excellent disease package, Strong white mold tolerance, Strong phytophthora tolerance, Very aggressive, bushy plant</td>
</tr>
</tbody>
</table>

NEW! TH 33003 R2Y BRAND | RM 03 | CHU 3400 | Slender | 1.8 | 106% | Early maturity, high yielding, Very adaptable variety, all areas of Western Canada, Pod height is highest on the market, Lateral branching provides exceptional pod set, Very light sensitive
1. Field Selection/Crop Rotation
   a. No restrictions
   b. Avoid high-trash cover field (i.e., winter wheat)

2. Herbicide Residual Problems
   a. Mostly Lontrel types
   b. Minor problems with muster

3. Variety
   a. Earlier type and very light sensitive
   b. Strong germinator with good vigor

4. Inoculants
   a. 30-day liquid on seed
   b. 7-12 pounds/acre granular inoculant
   c. Use higher rates on virgin or cooler, minimum-tillage soils

5. Seed Treatments
   a. Only Cruiser Maxx® Vibrance™

6. Fertility
   a. No nitrogen at all
   b. 0-40 pounds of phosphate depending on seed placement
   c. 0-60 pounds of potash broadcast (usually none is required)

7. Seeding Date
   a. Ideal: May 10–May 25
   b. Possible: May 1–June 10
   c. Seed when soils are warming up

8. Seeding Rate
   a. Solid seeding 200,000-220,000 seeds/acre
   b. Row crop 170,000-190,000 seeds/acre

9. Herbicide Program
   Roundup®:
   a. Higher rates if needed
   b. Any time up to flowering
   Volunteer Canola:
   c. Cut rate of Pursuit®
   d. Pre-emerge burn off
   e. Pinnacle®
   f. Reflex®
   g. Valtera™
   h. Basagran®

10. Insects
    a. Soybean Aphids: Until recently only an occasional problem in Red River Valley, easy to kill and rarely a problem in the west
    b. Spider Mites: Very rare in the valley

11. Disease
    a. Root Bourne: Most varieties have reasonable tolerance
       - Cruiser Maxx® Vibrance™ and crop rotation help
    b. Foliar Diseases: Most disease results in minor yield losses
       - Sclerotinia can cause moderate reduction in yield
       - New seed treatment, crop rotation, crop spacing and lighter seeding rates can help combat the problem

12. Harvest
    a. Best method is straight combining with a flex header
    b. Swathing
    c. No need to desiccate
    d. Dry is 13-13.5 percent moisture

13. Storage
    a. Keeps well, especially if sample is clean
    b. Tough beans dry down easily with aeration

14. Marketing
    a. Easy and flexible in the Red River Valley
    b. Getting a lot better outside the Red River Valley
    c. Main line grain elevators, smaller grain brokers and small processors
    d. Hedging up to three years

15. Grading
    a. Very easy
    b. Much lower chance of downgrades
    c. Cracked beans are usually not dockage
    d. Lower dockage

16. Revenue/Cost
    a. $110-120/acre, lower cost/acre than canola
    b. Revenue depends more on moisture for the area
    c. Yield:
       - Dry conditions 20-25 bushels/acre
       - Most conditions 30-55 bushels/acre
ZONE ADAPTATION

- TH ASTRO R2
- TH 34006 R2Y
- TH 33003 R2Y
- TH 32004 R2Y
- TH 33005 R2Y
- TH 33003 R2Y

*TH 35002 R2Y and TH 36007 R2Y zone adaptation map not yet available.
2016 SEED GUIDE

STAY INFORMED WHILE YOU grow

From our quarterly newsletter to our website and social media sites, we offer several resources for you to stay connected with us. Through these channels, you’ll have the agronomic insight you need on new seed varieties, treatments and techniques to maximize yield potential.

To sign up for the quarterly newsletter, go to www.thunderseednews.com. Also, be sure to join us around the cyber tailgate! Stay connected with us on Facebook, Google+, Twitter, YouTube, LinkedIn and Instagram. Access any of our social media sites through our website, www.thunderseed.ca.

Where there’s a worm, there’s a way.

Above ground pest protection, refuge-in-the-bag simplicity, and great yield potential.

Genuity® VT Double PRO® RIB Complete® gives you:

- 5% refuge right in the bag. Just pour and plant.
- Two modes of action against corn earworm and European corn borer, above ground. Be sure to scout for them.
- Higher yield potential thanks to effective insect control and reduced refuge.

Genuity® Because every kernel matters. Visit your seed rep or GENUITYTRAITS.CA

Roundup Ready® 2 Technology

ABOVE GROUND PROTECTION

REFUGE

HERBICIDE TOLERANCE

ROUNDUP READY® 2 TECHNOLOGY

5% IN THE BAG
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<tr>
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<td>Delta, BC</td>
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<tr>
<td>Salmon Arm, BC</td>
<td>Sila Grow</td>
<td>1-800-665-6022</td>
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Why Plant Thunder Seed?

QUALITY SEED
Our soybeans are engineered with superior genetics and industry leading traits to consistently deliver higher yields. We never launch a new variety without thoroughly testing it first. In fact, no other soybean supplier in Western Canada invests more on private research. There are many factors you can’t control, so your best defense against the uncertainty of the growing season is seed with characteristics you can trust.

QUALITY SERVICE
As farmers we understand the difference a day can make. So if you need seed, we’ll be there within 24 hours. With so many varieties available, we feel it’s our responsibility to help our customers grow the variety that’s best suited for their area. Together with our dealers, we provide growers with all the information necessary for success from the time the seed is purchased until it goes in the bin.

QUALITY AGRONOMY
Thunder Seed is an industry leader in knowledge, experience, research and seed treatments. We’ve learned the best agronomic practices through many years of seed conditioning and selling experience. We combine this experience with unbiased third party information so you know you’re getting the best agronomic advice from people dedicated to increasing your yields and your profits.

HISTORY OF SUCCESS
For nearly two decades it’s been our mission to provide top-quality seed that delivers high yields and exceptional profit potential. And the best testimonials of our success come directly from the field.

FUTURE OF PROMISE
With the latest technologies and partnerships with world-class seed developers, we’re poised to continue to be first in our fields so you can be first in yours.
Thunder Seed is committed to meeting the changing needs of today's farmers. By monitoring the latest technologies then incorporating that knowledge into high-yielding seed products, Thunder Seed is linking today's producer with tomorrow's technology. Thunder Seed recommends the purchase of new seed for a variety of benefits compared to bin run seed. When you buy new seed from Thunder Seed, you will enjoy some limited warranty benefits. With Thunder Seed, you receive agronomic support and can participate in the Roundup Rewards program, which has paid out more than $600 million to growers since 1997.

NOTES: