Together we grow

Two renowned Canadian companies are now one. Maizex and Elite have come together to share their values and their passion for doing what’s best for Canadian farmers.

With Maizex brand seed corn and Elite brand soybeans, together we grow.
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GRAIN CORN
2100 TO 2550 CHU

**E44H12 R**
2100 CHU

**Yield and specific weight**
Early flowering and physiological maturity make this hybrid a solid choice for the early zone.

**E45K07 R**
2125 CHU

**Yield and quick drydown**
Developed for early zones with good agronomic qualities and an excellent drydown curve.

**E46J77 R**
2150 CHU

**Vigour and high test weight**
Developed for early zones with strong vigour and high test weight.

**E49K32 R**
2300 CHU

**Excellent yield**
Hybrid with high yield potential, early flowering, and excellent standability.

**E50P52 R**
2400 CHU

**Vigour and yield**
High-yield genetics with strong spring vigour and excellent standability.

**E52V92 R**
2450 CHU

**Complete genetics**
Early flowering combined with high marks for yield, standability, and specific weight.

**E52V97 R**
2450 CHU

**Vigour and yield**
High-yield genetics with strong spring vigour and excellent standability.

**E53G52 R**
2550 CHU

**Yield**
High yield potential and strong field characteristics.

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**VIGOUR: SPRING VIGOUR | STRENGTH: STALK STRENGTH | DRYDOWN: NATURAL GRAIN DRYDOWN | TEST WT: TEST WEIGHT** (Data given on a scale of 1 to 9)
The agronomic assessments in this publication are conducted by La Coop fédérée’s Plant Production Research Farm, using methodologies used in the industry. These assessments can be used to compare ELITE brand hybrids of similar maturity. Performance may vary depending on the presence of insects or disease-causing organisms or environmental conditions.
**E55T32 R**
2600 CHU

**E55T37 R**
2600 CHU

**Superior yield**
Outstanding spring vigour, standability, and drydown help this hybrid reach its full yield potential in the field.

**VIGOUR: 9**
**STRENGTH: 9**
**DRYDOWN: 9**
**TEST WT: 9**

**E56B22 R**
2600 CHU

**Very high yield potential**
High yielding genetics and excellent plant health.

**VIGOUR: 8**
**STRENGTH: 9**
**DRYDOWN: 8**
**TEST WT: 9**

**E57L62 R**
2650 CHU

**Above and beyond**
Hybrid with exceptionally high yield boosted with strong spring vigour, standability, and quick drydown.

**VIGOUR: 9**
**STRENGTH: 9**
**DRYDOWN: 9**
**TEST WT: 8**

**E61H72 R**
2700 CHU

**Great yield and autumn staygreen**
New high-yield genetics combining late-season plant integrity, standability and vigour.

**VIGOUR: 9**
**STRENGTH: 9**
**DRYDOWN: 8**
**TEST WT: 8**

**E61K70 LR**
2700 CHU

**NEW**

**Excellent spring vigour**
Genetics benefiting from strong spring vigour, and a solid root system well-adapted to corn monoculture.

**VIGOUR: 8**
**STRENGTH: 9**
**DRYDOWN: 8**
**TEST WT: 8**

**MZ 3033DBR**
2750 CHU

**NEW**

**Solid stalks and roots**
Excellent stay green and leading spring vigour.

**VIGOUR: 9**
**STRENGTH: 8**
**DRYDOWN: 8**
**TEST WT: 8**

**E63G62 R**
2750 CHU

**Excellent yield and stays green in autumn**
Hybrid with high yield potential, high test weight, good spring vigour, and autumn durability.

**VIGOUR: 8**
**STRENGTH: 9**
**DRYDOWN: 8**
**TEST WT: 9**

---

**DATA:**
VIGOUR: SPRING VIGOUR  |  STRENGTH: STALK STRENGTH  |  DRYDOWN: NATURAL GRAIN DRYDOWN  |  TEST WT: TEST WEIGHT  
(Data given on a scale of 1 to 9)
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**Ratings:** 9 = excellent 5 = Average 1 = Poor  – = Insufficient data

**Legend:** see page 30

**Disease tolerance rating:**
9 = Very tolerant 8 = Tolerant 7 = Moderately tolerant 6 = Moderately susceptible 5 = Susceptible

The agronomic assessments in this publication are conducted by La Coop fédérée’s Plant Production Research Farm, using methodologies used in the industry. These assessments can be used to compare ELITE brand hybrids of similar maturity. Performance may vary depending on the presence of insects or disease-causing organisms or environmental conditions.
**GRAIN CORN**  
2800 TO 3100 CHU

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**High performance and consistency**  
Strong agronomic characteristics ensure steady performance in corn-on-corn production.

**Leading performance across environments**  
Excellent stress tolerance and allows for a flexible harvest.

**Very high yield**  
Early flowering, very high yield potential, exceptional drydown.

**Versatile and productive**  
Very high yield potential, no matter the field conditions.

**Dominant start to finish**  
Flexible positioning with elevated top-end yield. Powerful seedling vigour for tough conditions.

**Steadfast production**  
Early flowering and high yield combined with excellent standability and quick drydown.

**Exceptional stress tolerance**  
Consistent performance and excellent stay green. Large, showy hybrid.

**Performance without compromise**  
Highly productive hybrid with very solid stalks and roots, good choice for corn monoculture.

**VIGOUR: SPRING VIGOUR | STRENGTH: STALK STRENGTH | DRYDOWN: NATURAL GRAIN DRYDOWN | TEST WT: TEST WEIGHT**  
(Data given on a scale of 1 to 9)
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**GRAIN CORN**

**TECHNOLOGY**

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**Legend:** see page 30

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- 5 = Susceptible

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<th>COLD CLIMATE TOLERANCE⁸</th>
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</table>

**Ratings:** 9 = excellent  5 = Average  1 = Poor  - = Insufficient data  

**Legend:** see page 30

**Disease tolerance rating:**  
9 = Very tolerant  8 = Tolerant  7 = Moderately tolerant  
6 = Moderately susceptible  5 = Susceptible

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The agronomic assessments in this publication are conducted by La Coop fédérée’s Plant Production Research Farm, using methodologies used in the industry. These assessments can be used to compare ELITE brand hybrids of similar maturity. Performance may vary depending on the presence of insects or disease-causing organisms or environmental conditions.
Buying seed?

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fcc.ca/CropInputs
Soybeans adapted to conditions found in Northern and Eastern Quebec.

**Nocoma R2**
- 0.00.5 RM (2150 CHU)
- Pushing the limit in the ultra-early zone

**Akras R2**
- 0.00.9 RM (2250 CHU)
- High yield and ease of harvest
  - The new benchmark for yield in the early zone! Very high first pod.

**Mani R2X**
- 0.0.1 RM (2300 CHU)
- Yield, standability, and white mold resistance
  - Early variety, bushy and high-yielding. Suitable for all soil types.

**Sunna R2X**
- 0.0.1 RM (2300 CHU)
- High yield and ease of harvest
  - Very high first pod.

**Vidar R2X**
- 0.0.5 RM (2400 CHU)
- Excellent spring vigour
  - Tall plant, and bushy for its maturity.

**C4M16157**
- 0.0.5 RM (2400 CHU)
- Human feed quality eligible for a premium
  - Medium plant with excellent standability.
### Soybeans Varieties 2150 to 2400 CHU

#### Characteristics

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<th>Technological trait</th>
<th>Food type</th>
<th>Relative maturity</th>
<th>CHU</th>
<th>Colour Flower/Hilum</th>
<th>Colour Pubescence/Pod</th>
<th>Spring vigour</th>
<th>Standability</th>
<th>First pod height</th>
<th>30 in rows adaptability</th>
<th>White mold field tolerance</th>
<th>Phytophthora field tolerance</th>
<th>Phytophthora resistance gene</th>
<th>Soybean cyst nematode (SCN)</th>
<th>Bean/Kg of seed</th>
<th>Drill seeding rate 7- or 14-inch (1000 beans/ha)</th>
<th>Planter seeding rate 15-inch (1000 beans/ha)</th>
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#### Ensilage

| Vali R2X | Xtend | 2.6   | 3225 | P/BL | TG/B | 9     | 9     | 9     | 9     | 8     | Rps1C | R | 6300 | 700 | 650 | N/R |

#### Ratings

9 = Excellent  
5 = Average  
1 = Poor  
- = Insufficient data

#### Notes

1. **Colour**  
   Flower:  
   \[ P = \text{Purple} \quad W = \text{White} \]  
   Hilum:  
   \[ \text{BL} = \text{Black} \quad \text{B} = \text{Brown} \quad \text{Y} = \text{Yellow} \quad \text{BU} = \text{Buff} \quad \text{G} = \text{Grey} \]  
   ‘i’ indicates “imperfect” hilum colour  
   ‘p’ indicates pale variant of hilum colour  
   Pubescence:  
   \[ \text{B} = \text{Brown} \quad \text{G} = \text{Gray} \quad \text{T} = \text{Tawny} \quad \text{TG} = \text{Tawny grey} \]  
   Pod:  
   \[ \text{B} = \text{Brown} \quad \text{G} = \text{Gray} \quad \text{T} = \text{Tawny} \quad \text{TG} = \text{Tawny grey} \]

2. **Field tolerance to phytophthora**  
   Soybeans cultivar demonstrates tolerance to the presence of multiple field races of phytophthora without a gene for resistance. This rating is based on observations during selection against controls of similar maturity.

3. **Phytophthora Resistance**  
   \[ R = \text{Resistant}, \text{gene non-specified}; \quad \text{Rps 1c}, \text{Rps 1k}, \text{Rps 3a}, \text{Rps 3b}, \text{Rps 6} \]  
   Race 3 = Resistant to specific groups  
   NR = Non-resistant

4. **Soybean cyst nematode resistance**  
   \[ R = \text{Resistant} \]  
   NR = Non-resistant

5. **Bean/Kg of seed**  
   Planting equipment must be adjusted according to the number of beans per kg, as indicated on the bag label.

6. **Recommended planting rate using a drill**  
   The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.

7. **Recommended planting rate with a 15-inch row or twin planter**  
   The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.

8. **Recommended planting rate for 30-inch rows**  
   The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.
Podaga R2
0.8 RM (2475 CHU)

- Reliable performance
- Consistent performance and excellent standability.

Jari
0.9 RM (2500 CHU)

- Human feed quality eligible for premium
- Excellent yield potential and very good white mold tolerance.

Hydra R2
0.1 RM (2550 CHU)

- Top yield
- Ultra performance, high yield and excellent standability.

Lempo R2X
0.3 RM (2600 CHU)

- Performance and standability
- Compact genetics with great standability and white mold tolerance.

Woden R2X
0.5 RM (2650 CHU)

- Very good yield potential
- Tall plant with good standability.

C4M17228
0.5 RM (2650 CHU)

- Human feed quality eligible for premium
- Tall plant with excellent tolerance to white mold.

VIGOUR: SEEDLING VIGOUR | STANDABILITY | WHITE MOLD: WHITE MOLD TOLERANCE | HARVEST: EASE OF HARVEST (Data given on a scale of 1 to 9)
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<td>2600</td>
<td>P/BLi</td>
<td>G/G</td>
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<tr>
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<td>-</td>
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<td>BU</td>
</tr>
<tr>
<td>Etna</td>
<td>-</td>
<td>X</td>
<td>0.5</td>
<td>2650</td>
<td>P/Yi</td>
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<tr>
<td>Woden R2X</td>
<td>Xtend</td>
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<td>2650</td>
<td>P/BL</td>
<td>TG/B</td>
</tr>
<tr>
<td>C4M17228</td>
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<td><strong>ENSILAGE</strong></td>
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<td></td>
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</tr>
<tr>
<td>Vali R2X</td>
<td>Xtend</td>
<td>2.6</td>
<td>3225</td>
<td>P/BL</td>
<td>TG/B</td>
</tr>
</tbody>
</table>

**Ratings:** 9 = Excellent  5 = Average  1 = Poor  – = Insufficient data

* GENRR2Y = Genuity Roundup Ready 2 Yield

**1. Colour**
- **Flower:**
  - P = Purple
  - W = White
- **Hilum:**
  - BL = Black
  - B = Brown
  - Y = Yellow
  - BU = Buff
  - G = Grey
  - ‘i’ indicates “imperfect” hilum colour
  - ‘p’ indicates pale variant of hilum colour
- **Pubescence:**
  - B = Brown
  - G = Gray
  - T = Tawny
  - TG = Tawny grey
- **Pod:**
  - B = Brown
  - G = Gray
  - T = Tawny
  - TG = Tawny grey

**2. Field tolerance to phytophthora**
Soybeans cultivar demonstrates tolerance to the presence of multiple field races of phytophthora without a gene for resistance. This rating is based on observations during selection against controls of similar maturity.

**3. Phytophthora Resistance**
- R = Resistant, gene non-specified;
  - Rps 1c, Rps 1k, Rps 3a, Rps 3b, Rps 6
- Race 3 = Resistant to specific groups
- NR = Non-resistant

**4. Soybean cyst nematode resistance**
- R = Resistant
- NR = Non-resistant

**5. Bean/Kg of seed**
Planting equipment must be adjusted according to the number of beans per kg, as indicated on the bag label.

**6. Recommended planting rate using a drill**
The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.

**7. Recommended planting rate with a 15-inch row or twin planter**
The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.

**8. Recommended planting rate for 30-inch rows**
The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.

**9. Soybean cyst nematode resistance**
- N = No
- Y = Yes
SOYBEAN
2725 TO 2825 CHU

**Ajico**
0.8 RM (2725 CHU)

*Human feed quality eligible for premium*
High yielding average size plant with excellent white mold tolerance.

**Donar R2X**
0.8 RM (2725 CHU)

*Yield and spring vigour*
High yield potential and excellent standability.

**Katonda R2**
1.0 RM (2775 CHU)

*Leader for its zone*
High yield cultivar which gets a boost from strong field characteristics.

**Ajok R2**
1.1 RM (2800 CHU)

*Standability and performance*
Genetics balanced between yield and plant health.

**Gibil R2X**
1.1 RM (2800 CHU)

*Performance and stability*
Steady yields in a multitude of environments.

**Maris R2X**
1.2 RM (2825 CHU)

*Very good yield potential*
Short, bushy, nice looking plants with excellent yield potential.

---

**VIGOUR**: SEEDLING VIGOUR | **STANDABILITY**: | **WHITE MOLD**: WHITE MOLD TOLERANCE | **HARVEST**: EASE OF HARVEST (Data given on a scale of 1 to 9)
### SOYBEANS VARIETIES
2725 TO 2825 CHU

<table>
<thead>
<tr>
<th>SOYBEANS</th>
<th>CHARACTERISTICS</th>
<th>MATURITY</th>
<th>AGRONOMIC CHARACTERISTICS</th>
<th>DISEASE TOLERANCE</th>
<th>SEEDING SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Technological trait</td>
<td>Food type</td>
<td>Relative maturity</td>
<td>CHU</td>
<td>Colour Flower/Hilum</td>
</tr>
<tr>
<td>Ajico</td>
<td>-</td>
<td>X</td>
<td>0.8</td>
<td>2725</td>
<td>P/Yi</td>
</tr>
<tr>
<td>Donar R2X</td>
<td>Xtend</td>
<td></td>
<td>0.8</td>
<td>2725</td>
<td>P/B</td>
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<tr>
<td>Katonda R2</td>
<td>GENR2Y*</td>
<td></td>
<td>1.0</td>
<td>2775</td>
<td>P/BL</td>
</tr>
<tr>
<td>Ajok R2</td>
<td>GENR2Y*</td>
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<td>1.1</td>
<td>2800</td>
<td>P/BL</td>
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<tr>
<td>Gibil R2X</td>
<td>Xtend</td>
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<td>1.1</td>
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<td>P/BU</td>
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<tr>
<td>Maris R2X</td>
<td>Xtend</td>
<td></td>
<td>1.2</td>
<td>2825</td>
<td>P/B</td>
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<tr>
<td>Mylitta R2</td>
<td>GENR2Y*</td>
<td></td>
<td>1.5</td>
<td>2900</td>
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<tr>
<td>Bragi R2X</td>
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<td>Vali R2X</td>
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<td></td>
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<td>3225</td>
<td>P/BL</td>
</tr>
</tbody>
</table>

**Ratings:** 9 = Excellent 5 = Average 1 = Poor – = Insufficient data

1. **Colour**
   - Flower: P = Purple  W = White
   - Hilum: BL = Black  B = Brown  Y = Yellow  BU = Buff  G = Grey
   - ‘i’ indicates “imperfect” hilum colour
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2. **Field tolerance to phytophthora**
   Soybeans cultivar demonstrates tolerance to the presence of multiple field races of phytophthora without a gene for resistance. This rating is based on observations during selection against controls of similar maturity.
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   - R = Resistant, gene non-specified;
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     - Race 3 = Resistant to specific groups
   - NR = Non-resistant
4. **Soybean cyst nematode resistance**
   - R = Resistant
   - NR = Non-resistant
5. **Bean/Kg of seed**
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6. **Recommended planting rate using a drill**
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   The seeding rate is given in bean/ha. This rate is a guideline based on our variety testing. This rate may be adjusted according to field conditions and equipment performance.
9. **Soybean cyst nematode resistance**
   - N = No
   - Y = Yes

* GENR2Y = Genuity Roundup Ready 2 Yield
# SOYBEAN SEEDING CALIBRATION

## SEEDING EQUIPMENT CALIBRATING TABLE FOR SOYBEANS

<table>
<thead>
<tr>
<th>PROJECTED SEEDING RATE</th>
<th>BAGS/HA</th>
<th>KG/HAL</th>
<th>SEEDS/10 FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>200,000</td>
<td>1.43</td>
<td>50</td>
<td>11</td>
</tr>
<tr>
<td>300,000</td>
<td>2.14</td>
<td>75</td>
<td>16</td>
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<tr>
<td>350,000</td>
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<tr>
<td>400,000</td>
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<td>450,000</td>
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<td>800,000</td>
<td>5.71</td>
<td>200</td>
<td>43</td>
</tr>
</tbody>
</table>

**Contest**

Do you have the biggest ELITE “family” in all of Quebec?

To participate and to have a chance to win several prizes, post a photo of your family, your friends, even your neighbors... in your ELITE field, on Facebook, Instagram or Twitter and include:

- The #EliteMyBestField hashtag
- The name of the farm
- The name of the cooperative
- The type of seed

The photo with the most people will win a $500 BMR gift card!

---

elite.coop
Together We Grow.

Two Canadian companies now as one, sharing values and a passion for doing what’s best for Canadian farmers. With Maizex brand seed corn and Elite brand soybeans, Together We Grow.

It’s the Yield

maizex.com | Follow us: @Maizex

Maizex® and Design are registered trademarks of Maizex Seeds INC.
**WHEAT**

**SPRING FEED WHEAT**

**UGRC RING**

**Outstanding yield**
Produces very uniform heads which give excellent yield. Good winter survival in all areas. For feed or flour. Responds very well to intensive management.

**SPRING FEED WHEAT**

**MINOT**

**The performer**
Minot has impressive yield and can adapt to all zones and climate conditions. It has good disease resistance, including fusarium.

**SPRING BREAD WHEAT**

**LEXINGTON**

**The tough one**
This desirable variety has high protein content and good falling number values. Remarkable lodging resistance and early maturity.

**SPRING BREAD WHEAT**

**Dakosta**

**High yielding bread wheat**
Dakosta is a bread wheat with intermediate maturity and superior yield. Very good straw yield and very high test weight. Good bread quality with high protein and falling numbers. Adapted to intensive management.

**SPRING BREAD WHEAT**

**Maida**

**Great in early zones**
Maida is a high-yielding bread wheat in zone 2 and 3. It has excellent plant health and good straw production. High protein content.

**SPRING BREAD WHEAT**

**TOURAN**

**High falling number**
Excellent bread wheat with good test weight, protein level and falling numbers. Among the best in terms of yield. Fusarium resistance is better than average.

**SPRING BREAD WHEAT**

**NEW**
<table>
<thead>
<tr>
<th>WHEAT VARIETY 2019</th>
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<tbody>
<tr>
<td><strong>WHEAT</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>New</td>
</tr>
<tr>
<td>Maida</td>
</tr>
<tr>
<td>Dakosta</td>
</tr>
<tr>
<td>Touran</td>
</tr>
<tr>
<td>Helios</td>
</tr>
<tr>
<td>Minot</td>
</tr>
<tr>
<td>Hoffman HRF</td>
</tr>
<tr>
<td>Quantum</td>
</tr>
<tr>
<td>SS Fundy</td>
</tr>
<tr>
<td>UGRC Ring</td>
</tr>
</tbody>
</table>

**Ratings:** 9 = excellent 5 = Average 1 = Poor - = insufficient data

1. **Canadian wheat class**
   - HRS: Hard red Spring
   - SRW: Soft Red Winter
   - HRW: Hard Red Winter

2. **Maturity**
   - E = Early
   - I = Intermediate
   - L = Late

3. **Awns**
   - L = Long
   - A = Apical
   - N = None

4. **Fusarium**
   - S = Sensitive
   - MS/MS = Moderately sensitive to sensitive
   - MS = Moderately sensitive
   - MR/MS = Moderately resistant to Moderately sensitive
   - MR = Moderately resistant

5. **IMP**
   - Intensive management practices

6. **Seeding rate in Kg/ha**
   - (Seeds/m² x TKW) / 100

7. **Disponible en certification biologique**
   - Y = Yes
   - N = No
**OTHER GRAINS**

### Alyssa
**6 ROW BARLEY**
- **Simply beautiful**
- Alyssa makes heads turn! Consistent high yield, good standability and good straw integrity at maturity. Excellent leaf disease resistance, and it looks great in the field too.

### Selena
**2-ROW BARLEY**
- **Fight head blight**
- Two-row barley with high yield potential. Superior Fusarium resistance due to increased air circulation between grains. Large uniform grains with high test weight. Lower fibre content than six-row barleys. Above average foliar disease resistance. Clean, good looking, grain grades well.

### Akina
**HULLED OATS**
- **The new champion**
- Akina wows with exceptional yield, excellent standability, and high specific weight. White oats for the human consumption market, this variety is on Quaker’s short list. Akina is highly tolerant of crown rust.

### Kara
**HULLED OATS**
- **Stands up straight**
- These high yielding oats show truly exceptional lodging resistance. High test weight. These white oats are shorter than average and will impress you with their robustness and very strong resistance to crown rust.

### Guttino
**HYBRID FALL RYE**
- **Vigorous and solid**
- This hybrid fall rye has a yield potential 20-25% higher than conventional rye. Guttino is very resistant to ergot and has great winter survival, and is a quick starter in the spring. Short plants very resistant to lodging.

### Thauvex
**SPRING TRITICALE**
- **Impressive**
- Thauvex is a tall variety with above-average lodging resistance and very high yield potential.
### Other Grain Varieties 2019

<table>
<thead>
<tr>
<th>Grains</th>
<th>Characteristics</th>
<th>Plant Health</th>
<th>Seeding Rate</th>
<th>Organic Certified Seed Available</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Spring</td>
<td>Winter</td>
<td>Accepted by Quaker</td>
<td>6-Rows</td>
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<tr>
<td>Barley</td>
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<tr>
<td>Alyssa</td>
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<td>X</td>
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<td>Rhea</td>
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<td>Cyane</td>
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<td>Oat</td>
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<td>Akina</td>
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<td>X</td>
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<td>Kara</td>
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<tr>
<td>Nice</td>
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<td>Thauvex</td>
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<td>Bobcat</td>
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<td>Rye</td>
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<td></td>
</tr>
<tr>
<td>Guttino</td>
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<td>X</td>
<td></td>
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<tr>
<td>Gauthier</td>
<td>X</td>
<td></td>
<td></td>
<td>136</td>
</tr>
</tbody>
</table>

**Indices**: 9 = excellent, 5 = moyen, 1 = faible, – = données insuffisantes

1. **Type**
   - B = Bread
   - F = Feed
   - S = Specialty
   - M = Malt/brewing

2. **Colour**
   - W = White
   - R = Red

3. **Maturity**
   - E = Early
   - I = Intermediate
   - L = Late

4. **Awns**
   - L = Long
   - A = Apical
   - N = None

5. **Seeding rate in Kg/ha**
   (Seeds/m² x TKW) / 100

6. **IMP**
   intensive management practices

7. **Organic certified seed available**
   - Y = Yes
   - N = No
**2019 CANOLA**

**InVigor L241c**
- **Club root resistance**
- L241c canola is resistant to club root and has outstanding yield potential. Better lodging resistance than its predecessors and maturity varies in between the L130 and the 5440 LL. It had the best yield in club root trials in Western Canada.

**InVigor L252**
- **High performance**
- Mid-season hybrid with very high yield potential. Very good lodging resistance, and at the top of the list for yield and blackleg resistance.

**InVigor L255pc**
- **Flexibility**
- The first shatter-resistant canola with club root resistance, L255pc may be planted anywhere and be harvested straight cut, swathed normally, or later in the season.

**BrettYoung**
- **6090RR**
  - **RR resistant to club root**
  - Very high yield potential, and great standability for easier harvest. Full season hybrid.

**4187RR**
- **Club root tolerance**
- Club root resistant, the 4187 RR will impress with its competitive leaf coverage. Adapts well everywhere, useful for rotation of club root resistant hybrids.

**5545CL**
- **Conventional canola**
- The hybrid 5545 CL was developed through traditional breeding. Full season canola, consistently yields and has good standability. It is a leap forward in the conventional hybrids.

---

**CLUB ROOT: S = SUSCEPTIBLE, R = RESISTANT  I  REDUCED SHATTERING : Y = YES, N = NO  I  MATURITY  I  STANDABILITY  |  SCLEROTINIA : RESISTANCE TO SCLEROTINIA**

(Scale of 1 to 9, 9 being the best score)
# CANOLA HYBRIDS 2019

<table>
<thead>
<tr>
<th>CANOLA</th>
<th>TECHNOLOGICAL TRAIT¹</th>
<th>CLUBROOT²</th>
<th>REDUCED SHATTERING³</th>
<th>RELATIVE MATURITY⁴</th>
<th>BLACK LEG⁵</th>
<th>SCLEROTINIA⁶</th>
<th>PLANT HEIGHT⁷</th>
<th>STANDABILITY (lodging resistance)⁸</th>
</tr>
</thead>
<tbody>
<tr>
<td>6090 RR</td>
<td>GENRR</td>
<td>R</td>
<td>N</td>
<td>7</td>
<td>R</td>
<td>-</td>
<td>T</td>
<td>7</td>
</tr>
<tr>
<td>4187 RR</td>
<td>GENRR</td>
<td>R</td>
<td>N</td>
<td>8</td>
<td>R</td>
<td>-</td>
<td>T</td>
<td>8</td>
</tr>
<tr>
<td>InVigor L233p</td>
<td>LL</td>
<td>S</td>
<td>Y</td>
<td>6</td>
<td>R</td>
<td>9</td>
<td>M</td>
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<td>InVigor L241c</td>
<td>LL</td>
<td>R</td>
<td>N</td>
<td>7</td>
<td>R</td>
<td>8</td>
<td>M</td>
<td>9</td>
</tr>
<tr>
<td>InVigor L252</td>
<td>LL</td>
<td>S</td>
<td>N</td>
<td>8</td>
<td>R</td>
<td>7</td>
<td>M</td>
<td>8</td>
</tr>
<tr>
<td>InVigor L255pc</td>
<td>LL</td>
<td>R</td>
<td>Y</td>
<td>9</td>
<td>R</td>
<td>-</td>
<td>M</td>
<td>9</td>
</tr>
<tr>
<td>5545 CL</td>
<td>Conv</td>
<td>S</td>
<td>N</td>
<td>8</td>
<td>R</td>
<td>-</td>
<td>M</td>
<td>6</td>
</tr>
</tbody>
</table>

1. **Trait**
   - GENRR = Genuity® Roundup Ready®
   - LL = Resistant to Liberty® herbicide
   - Conv = Conventional

2. **Clubroot**
   - R = Resistant
   - S = Susceptible

3. **Reduced shattering**
   The hybrid has a shattering resistant trait that allows for more harvest flexibility and yield protection.
   - Y = Yes
   - N = No

4. **Relative maturity**
   - 1 = Earlier
   - 2 = Later

5. **Black leg**
   - R = Resistant

6. **White mold**
   - 1 = Very sensitive
   - 9 = Best tolerance
   - - = Not enough data

7. **Plant height**
   - S = Short
   - M = Medium
   - T = Tall

8. **Standability (lodging resistance)**
   - 1 = Poor standability
   - 9 = Best standability
### HIGH DIGESTIBILITY

<table>
<thead>
<tr>
<th>Alfalfa</th>
</tr>
</thead>
</table>
| **AMINA** | Hi-Gest  
|  
| - High fiber digestibility  
| - High leaf to stem ratio for more crude protein  
| - Harvest management flexibility  
|  

### INTENSIVE CUTTING MANAGEMENT

<table>
<thead>
<tr>
<th>Alfalfa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALTHÉA</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
| - Fast growth after cutting  
| - Shorter harvest intervals  
| - High yield  
|  

### CONVENTIONAL MANAGEMENT

<table>
<thead>
<tr>
<th>Alfalfa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ISABELLA</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
| - Extremely high yield  
| - Standard cutting management  
| - Excellent disease resistance  
| - Multi-foliate  

<table>
<thead>
<tr>
<th>Alfalfa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AKORI</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
| - Exceptional spring vigour  
| - Superior autumn regrowth  
| - High yield  

- Meadow Fescue **Laura**  
- Timothy **Arlaka**  
- Orchard Grass **Athos**  
- Soft leaf tall Fescue **Bardoux**  
- Meadow Bromegrass **Fleet**  
- Timothy **Arlaka**  
- Hybrid Bromegrass **AC Success**  
- Timothy **Arlaka**  
- Hybrid Bromegrass **AC Success**  
- Timothy **Arlaka**
### VARIABLE FIELD MANAGEMENT

| Alfalfa MAGNUM 7 WET | - Branch-rooted Alfalfa  
|                      | - Performance in wet soil conditions  
|                      | - Strong disease resistance |

| Red Clover WILDCAT | - Superior performance in low pH soils  
|                    | - Excellent yield  
|                    | - Superior fall regrowth |

### PASTURES AND ORGANIC FERTILIZATION

| Alfalfa 3010 | - Deep set crown  
|              | - Well suited for high traffic conditions  
|              | - Resistant to trampling |

| Birdsfoot Trefoil EXACT | - Superior performance in low pH soils  
|                         | - Excellent forage yields  
|                         | - Good recovery |

### ESTABLISHMENT AND REJUVENATION OF PRAIRIES AND PASTURES

| Ryegrass type Festulolium PERSEUS | - Prairie establishment  
|                                   | - Excellent forage yield in the year of seeding  
|                                   | - Fast establishment |

| Fescue type Festulolium MAHULENA | - Prairie and pasture rejuvenation  
|                                  | - Excellent forage quality |
### FORAGE SEEDS 2019

#### ALFALFA

<table>
<thead>
<tr>
<th>FORAGES</th>
<th>CHARACTERISTICS</th>
<th>MANAGEMENT</th>
<th>DISEASE TOLERANCE</th>
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<tr>
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<td>YIELD</td>
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<td>Amina</td>
<td>HiGest</td>
<td>8 Y 4 X X</td>
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<td>Standfast</td>
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<td>AAC Nikon</td>
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<tr>
<td>Calypso</td>
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<td>8 N 3 X</td>
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#### RED CLOVER

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<td></td>
<td>8 X X X</td>
<td>- - - M R -</td>
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<tr>
<td>Spurt</td>
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<tr>
<td>Start</td>
<td></td>
<td>7 X X X</td>
<td>- - - - - R -</td>
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<tr>
<td>Blizard</td>
<td>Tetraploid</td>
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<td>- - - - - R -</td>
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#### TREFOIL

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<tr>
<td>Exact</td>
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<td>9 X X</td>
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#### WHITE CLOVER

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<tr>
<td>Companion</td>
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#### TIMOTHY

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<td>Arlaka</td>
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<tr>
<td>AC Alliance</td>
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#### SOFT LEAF TALL FESCUE

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<tr>
<td>Bardoux</td>
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<tr>
<td>Savory</td>
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#### MEADOW FESCUE

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<tr>
<td>Laura</td>
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#### BROMEGRASS

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<td>Fleet</td>
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#### HYBRID BROMEGRASS

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<tr>
<td>AC Success</td>
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#### ORCHARDGRASS

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<tr>
<td>Athos</td>
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#### FESTULOLIUM

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<tr>
<td>Mahulena</td>
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<td>9 X</td>
<td>- - - - - - -</td>
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<tr>
<td>Perseus</td>
<td></td>
<td>9 X</td>
<td>- - - - - - -</td>
</tr>
</tbody>
</table>

---

**Ratings:**

- **9 = Excellent**
- **5 = Average**
- **1 = Poor**
- **- = insufficient data**

**1. Multi-foliate**

Possesses a multi-foliate character

Y = Yes
N = No

**2. Dormancy**

Describes the behavior and growth period of alfalfa. Dormancy is rated on a scale of 1 to 9 where 1 represents an alfalfa that enters dormancy early and 9 is an annual alfalfa.

**3. Diseases**

R = Resistant
MR = Moderately resistant
HR = Highly resistant
All producers are required to adopt an insect resistance management plan (IRM) as part of their production strategy in order to help conserve the advantages of these biotechnologies.

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto’s Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

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The Insect Resistance Management logo is used under licence.

This logo indicates varieties protected under the new Plant Breeders’ Rights Act (PBRA).

Herbicide Resistance

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.**

Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Genuity® RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready 2 Yield®, Roundup Ready®, Roundup® SmartStax®, VT Double PRO®, and VT Triple PRO® are trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. licensee. LibertyLink® and the Water Droplet Design are trademarks of Bayer. Used under license. Herculex® is a registered trademark of Dow AgroSciences LLC. Used under license. ©2017 Monsanto Canada Inc.

Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to dicamba and glyphosate. Glyphosate herbicides will kill crops that are not glyphosate-tolerant. Dicamba will kill crops that are not dicamba-tolerant. Contact your Monsanto retailer or call the Monsanto Technical Support line at 1-800-667-4944 for more information on the herbicide programs recommended for use with the Roundup Ready Xtend® production system. Roundup Ready2 Xtend®, Roundup Ready®, Roundup WeatherMAX®, Transorb®, VaporGrip® and XtendiMax® are trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. licensee. ©2017 Monsanto Canada, Inc.

Insect resistance

SmartStax® hybrids have the Roundup Ready® and LibertyLink® genetic traits, as well as protection against European corn borer, Western corn rootworm, corn earworm, fall armyworm, western bean cutworm, and black cutworm.

VT Double PRO® hybrids have the Roundup Ready® genetic traits, as well as protection against European corn borer and corn earworm.

Genuity® VT Triple PRO® hybrids have the Roundup Ready® genetic traits, as well as protection against European corn borer, corn rootworm, corn earworm and fall armyworm.

Agrisure® GT hybrids are glyphosate-tolerant.

**Herbicide Resistance**

**Roundup Ready® hybrids, Genuity® Roundup Ready 2 Yield® and Genuity® Roundup Ready varieties are glyphosate-resistant.**

**LIBERTY LINK®** Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn and soybean, and combine high-yielding genetics with Ignite® for powerful non-selective, post-emergent weed control.

**InVigor®** InVigor canola hybrids are resistant to the herbicide Liberty®.

**Fungicide seed treatments**

Maxim Quattro®, Vibrance Maxx®, and Divided® Extreme are standard seed treatment fungicides for ELITE® seeds. They protect against diseases such as Pythium, Phytophora, Rhizoctonia, and Fusarium wilt for a period of two to four weeks. ELITE® also offers many corn hybrids without neonicotinoids.

To help preserve the benefits of our trait technology, an Insect Resistance Management (IRM) plan must be part of every farmer’s production strategy.

Farmers who purchase corn products that are not designated as RIB Complete® required to plant a refuge that is appropriate for that product.

As part of the IRM plan for RIB Complete corn, experts recommend that growers incorporate crop rotations (out of corn), use of pyramided traits for below ground pests and, when appropriate, use of insecticides to minimize selection of resistant populations. **Farmers should monitor their RIB Complete corn fields for targeted insect pests and contact their local Monsanto representative, retailer, or Monsanto’s Technical Support line at 1-800-667-4944 if they observe any unusual performance problems.**

Soybean seeds with the Roundup Ready 2 Yield® and Roundup Ready 2 Xtend® are protected by multiple patents. It is unlawful to save seed from Genuity® Roundup Ready 2 Yield® and Roundup Ready 2 Xtend® for planting, or transfer to others for use as seed.

**HTE**

HTE hybrids: Selected for improved silage value, ELITE® HTE corn (for high silage content rations) is the top choice of feed professionals. The HTE line provides a reliable foundation for your feed strategy. HTE hybrids’ consistency in performance allows you to dedicate all of your attention to other variables in your herd’s diet. Put HTE hybrids to the test: they will quickly take their place among your best feed strategies.

**Success: Some farmers plant it**

Purchasing Certified Seed opens the door to new opportunities for success:

- Quality assurance
- Access to new and improved varieties
- Efficient input use
- New marketing opportunities
- Supports the development of future new varieties

**QH**

Human feed quality soybean cultivar eligible for premium
1. Trait
   RR2 = Roundup Ready® 2 Corn
   SS RIB = SmartStax® RIB Complete®
   VT2P RIB = VT Double Pro® RIB Complete®
   GENVT3P RIB = Genuity® VT Triple Pro® RIB Complete®
   Agrisure Gt = Agrisure® tolerant to glyphosate

2. Relative Maturity
   Relative Maturity allows comparison among hybrids for maturity based on grain moisture at harvest.

3. Maturity Silking
   Flowering for relative maturity based on silking.

4. Physiological Maturity
   Disappearance of starch line according to relative maturity of hybrid.

5. Target final population (plants per acre)
   F = 28,000 - 30,000
   N = 32,000 - 34,000
   E = 34,000 - 36,000
   TE = 36,000 - 38,000

6. Spring vigour
   Rating given at 3-5 leaves stage. Vigour increases as rating number increases.

7. Stalk strength
   Stalk quality reflects its lodging resistance. Stalk quality increases with the rating given.

8. Root strength
   Root strength increases with the rating given.

9. Drought tolerance
   Tolerance is determined by genetic capacity to maintain adequate yield in a low-moisture environment.

10. Drydown
    Rating comparing rate of moisture loss after attaining physiological maturity with hybrids of similar maturity.

11. Specific Weight
    Specific weight increases with the rating given.

12. Staygreen
    Hybrid capacity to stay green and healthy in the fall.

13. Plant height
    S = short  T = tall
    M = medium  VT = very tall
    MT = medium tall

14. Diseases resistance
    9 = Resistant  8 = Tolerant  7 = Moderately tolerant
    6 = Moderately sensitive  5 = Sensitive

INSECT RESISTANCE MANAGEMENT

Refuge in the bag (RIB®)

The ELITE® brand innovates by introducing the refuge in the bag solution which groups the refuge non B.t. and the B.t. corn in the same bag.

Hybrids SmartStax® RIB Complete®, VT Double Pro® RIB Complete® or Genuity® VT Triple Pro® RIB Complete® already contain 5% or 10% of refuge in each bag. There is no calculation or configuration of a separated refuge since this refuge meets the same standards of compliance.

Legend for page 10

1. Trait
   RR2 = Roundup Ready® 2 Corn
   SS RIB = SmartStax® RIB Complete®
   VT2P RIB = VT Double Pro® RIB Complete®
   GENVT3P RIB = Genuity® VT Triple Pro® RIB Complete®
   Agrisure Gt = Agrisure® tolerant to glyphosate

2. Target final silage population
   (plants per acre)
   F = 28 000
   N = 34 000
   E = 36 000
   TE = 38 000

3. Yield
   Yield index is relative to hybrids of similar maturity.

4. Plant height
   S = short  M = medium
   T = tall    VT = very tall
   MT = medium tall

5. Kernel type
   F = flint  SD = semi-dent
   D = dent    R = flowery

6. Starch
   Starch content index relative to hybrids of similar maturity.

7. 7-HR Starch digestibility
    Digestible starch content index relative to hybrids of similar maturity.

8. High silage content rations
   Index of the adaptability of the hybrid to high silage content rations.

9. Cold climate tolerance
    Hybrid that perform well in peripheral zones to corn adaptation zone.

10. Spring vigour
    Rating is given for 3-5 leaves stage. Seedling vigour increases with the rating given.

11. Stalk strength
    Stalk quality reflects its lodging resistance. Stalk quality increases with the rating given.

12. Staygreen
    Hybrid capacity to stay green and healthy in the fall.
**Enersile Gold - Inoculant for silage**

- Soluble powder containing strains of *L. Plantarum*, *E. Faecium* and *L. Lactis*
  - More rapid acidification power
  - Helps maintain better fermentation stability
  - inhibits *Clostridium* fermentation
  - 24-month live guarantee

**Enersile Duo – Forage additive for corn silage**

- Homolactic (*L. Plantarum* and *E. Faecium*) and heterolactic (*L. Buchneri*) bacteria
- Enersile Duo produces fermentation metabolites that ensure:
  - that silage doesn’t heat up when exposed to air
  - dry matter preservation
  - production of superior quality silage by rapidly reducing pH
- The best of both worlds!