Integra Product Guide
Integra chooses the best trait and genetic components for each crop and region. We then fortify every seed with Manifest, a unique treatment system that improves seedling development for more of what every grower wants.

Maximum protection of seed investment for maximum yield potential. The only fortified seed on the market, nothing else compares.

Every Integra seed comes with a team of experts in trait, insecticide, herbicide, fungicide, nutrition, and application technology. A 100 percent replant guarantee. We promise experience and integrity that only 90 years in the field can fulfill.

Which is exactly what you’d expect from Wilbur-Ellis Company, owner of Integra and a leading international marketer and distributor of agricultural products.
The Best Seed in the Land, Fortified by Manifest

Sorting through endless statistics on genetics, trait technologies and treatment programs, a single question emerges: What seed is right for your operation?

The answer, a seed created specifically for your growing conditions and specifications.

The best seed in the land, selected by Integra and fortified by Manifest. When it comes to yield potential, no other seed offers greater protection on your investment. A simple fact that should take the guesswork out of your decision.

Integra chooses the seed—corn, canola, sunflower, alfalfa, sorghum, leafy silage or soybeans—with the right traits and genetics for each crop and region. We apply a customized Manifest seed treatment that combines patented technology with the most effective materials available... all to create a unique form of protection from yield-robbing stress and diseases that affect early plant health and seedling vigor.

Manifest Treatment System contains distinctive and naturally occurring plant extracts considered essential for normal plant growth and development. The formula varies by seed type and is complemented by other carefully selected and proven components.

Manifest gives Integra seed improved plant stand and vigor, increased rate of canopy closure, and improved uptake of nutrients. Helping you to reach maximum yield potential with every bag.

Call it what you will: a guarantee, a commitment, an obsession. We create Integra for tified seed to strengthen your yield potential. Period. We never waver in our promise of integrity. We back qualified Integra seed purchases with the I-Plan, our 100% replant guarantee.

A few conditions apply, of course: Our replant guarantee pertains to corn, silage, sunflower and canola seed. You can change seed type, if necessary. Finally, replacement seed must be planted in the same season.

To be eligible, you must meet the following requirements: Make a qualified minimum purchase. Complete a crop plan—CPG, nutrition, seed, etc.—for the specified field. Be sure to report your claim and have your field inspected prior to replanting within 60 days of the original planting.
The number 3 denotes the first commercial year, e.g.: “3” introduced in 2003

Trait notation has been updated to the new nomenclature

Protection starts with Apron® XL LS that guards against seed decay and damping-off caused by Pythium. Additionally, the seed is protected from seed-borne and soil-borne fungi such as Fusarium, Rhizoctonia Solani, and Helminthosporium through the use of Maxim® 4FS and Trilex® fungicides. Integra corn hybrids are treated with Poncho™ 250 systemic insecticide to protect the seed from certain insects, including wireworms and seed corn maggot. Completing the Manifest Seed Treatment System is the addition of a proprietary and patented plant extract that can promote plant health and growth, especially when the plants are under stress such as temperature extremes, soil moisture, soil strength, and soil chemistry. Field tests have demonstrated that a stronger, healthier seedling will have a better opportunity to achieve maximum yield potential. Each component of the Manifest Seed Treatment System was selected with the intention of providing the best protection and value for the Integra brand seed in most crop situations. Due to different cropping practices the Manifest Treatment System may vary as described above to meet the needs of our customers.

Our Integra brand corn hybrids are protected with the most effective and reliable seed treatment products available. The treatment system is a combination of contact and systemic fungicides with a powerful systemic insecticide.

Note: New STP hybrids carry the same designation as grain corn, except with the STP prefix.

This number denotes the first commercial year, e.g.: “3” introduced in 2003

Number of hybrids in this maturity

Hybrids introduced prior to 2007 can be understood by the following nomenclature:

- “5” denotes corn with trait option
- “6” denotes corn with insect control
- “8” denotes corn with insect control and herbicide tolerance

Integra Product Guide

Relative Maturity Ratings

* The relative maturity ratings on new hybrids are based on limited data and may change as more data are collected. However, the hybrid name will stay the same.

Integra™ Hybrid Corn

Integra Brand Corn Hybrid Numbering System

9452RBC

6378R

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- “6” denotes corn with insect control
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Integra Product Guide

Relative Maturity Ratings

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Integra™ Corn Technology Offerings

**ROUNDUP READY® CORN 2 TECHNOLOGY**

Roundup Ready® Corn 2 contains enhanced plant tolerance to Roundup® agricultural herbicides, enabling growers to use over-the-top applications of Roundup® brand herbicides to control both grasses and broadleaf weeds. Growers are provided with excellent crop safety and full yield potential, with applications made from planting through 48 inches of corn height. Drop nozzles must be used between 30 inches to 48 inches of corn height.

**YIELDGARD® CORN BORER TECHNOLOGY**

YieldGard® Corn Borer hybrids contain an insecticidal protein from Bacillus thuringiensis (Bt) that protects corn plants from specific leaf and stalk borers. The YieldGard® Corn Borer Trait delivers, whole plant, full season protection against European corn borers, southwestern corn borers, sugarcane borers, and southern cornstalk borers resulting in maximum yield potential. YieldGard® Corn Borer hybrids also provide effective suppression of earworm, fall armyworm, and stalk borer. By providing more effective protection against corn borers, the genetic yield potential of YieldGard® Corn Borer hybrids is preserved.

**YIELDGARD® ROOTWORM TECHNOLOGY**

YieldGard® Rootworm corn hybrids contain an insecticidal protein from Bacillus thuringiensis (Bt) that protects corn roots from larvae of western corn rootworm, northern, and Mexican corn rootworm. Protecting the root of the corn plant from feeding by corn rootworm larvae decreases lodging and protects the genetic yield potential of YieldGard® Rootworm hybrids.

**YIELDGARD® PLUS TECHNOLOGY**

YieldGard® Plus technology combines YieldGard® Corn Borer and YieldGard® Rootworm Technology into a single, easy-to-use transformation. By combining two traits using a single DNA insertion process, it is a better way to produce stacked traits: • More efficient and more consistent • Less time-consuming • Enhanced trait performance YieldGard® Plus hybrids also provide superior suppression of earworm, fall armyworm, and stalk borer. By providing more effective protection against corn borers, the genetic yield potential of YieldGard® Plus corn hybrids is preserved.

**YIELDGARD® VT® ROOTWORM PROTECTION TECHNOLOGY**

YieldGard® VT Rootworm hybrids create a graphical representation of improved consistency and better control, compared to current rootworm management practices. By combining two traits using a single DNA insertion process, it is a better way to produce stacked traits: • More efficient and more consistent • Less time-consuming • Enhanced trait performance YieldGard® VT offers protection not only for the roots, but for the stalk and includes weed control as well. This allows for more available moisture and nutrients, more uptake and translocation, less lodging and ear drop and broad-spectrum weed control in the Roundup Ready 2 Technology System.

**YIELDGARD® VT® TRIPLE PROTECTION TECHNOLOGY**

YieldGard® VT Triple hybrids are created by coexpressing corn provides improved consistency and better control, compared to current rootworm-management practices. By combining two traits using a single DNA insertion process, it is a better way to produce stacked traits: • More efficient and more consistent • Less time-consuming • Enhanced trait performance YieldGard® VT Triplus offers protection not only for the roots, but for the stalk and includes weed control as well. This allows for more available moisture and nutrients, more uptake and translocation, less lodging and ear drop and broad-spectrum weed control in the Roundup Ready 2 Technology System.

**HERCULES® I INSECT PROTECTION TECHNOLOGY**

Herculex® I Insect Protection delivers superior in-plant protection against more above-ground destructive pests than any other trait, and brings only trait that protects against western bean cutworm and black cutworm. Herculex® I provides powerful protection against: • First- and second-generation European corn borer, western bean cutworm, black cutworm, and corn rootworm throughout the larval feeding period. A huge benefit of YieldGard® VT products is that you get stacked-trait hybrids with a highly active and more consistent promoter of the rootworm gene. The promoter is a biotechnological switch that turns on the gene to produce the insect-control protein and more effectively distribute it throughout the root system.

**HERCULES® I with ROUNDUP READY® CORN 2**

Herculex® I with Roundup Ready 2 technology: grain hybrids containing Herculex® I technology are available stacked with Roundup Ready 2 technology. Many Herculex® I hybrids are also available stacked with Roundup Ready 2 technology. Herculex® I hybrids convert a grain-marking tool (G-I) a Market choices® product.

All Herculex® I hybrids contain the LibertyLink® trait for tolerance to LIBERTY® herbicide when applied over-the-top in accordance with the LIBERTY® herbicide label. For maximum herbicide flexibility, many Herculex® I hybrids are also available stacked with Roundup Ready 2 technology. Herculex® I hybrids convert a grain-marking tool (G-I) a Market choices® product. However, grain (or processed products from this grain) from hybrids stacked with Herculex® I and Roundup Ready 2 is not approved for use in the European Union. Herculex® I is no longer a Market choices® product. Herculex® I with Roundup Ready 2 is not approved for use in the European Union. Herculex® I with Roundup Ready 2 is not approved for use in the European Union. The LibertyLink® trait is a LibertyLink® trait for tolerance to LIBERTY® herbicide when applied over-the-top in accordance with the LIBERTY® herbicide label. For maximum herbicide flexibility, many Herculex® I hybrids are also available stacked with Roundup Ready 2 technology.
Ethanol Corn

The dry mill ethanol market continues to grow, offering new local markets for area corn growers. Current estimates are that as much as 30% of the corn production in the United States will go to ethanol by the year 2015.

Reliable Research

At Integra™, we want to help you take advantage of these new market opportunities and we support the use of ethanol and promote its use.

We do field research that helps identify corn hybrids that improve ethanol yields and efficiencies. We have designated products as Processor Preferred® High Fermentable Corn (HFC) for dry mill ethanol plants.

Integra Processor Preferred® HFC products offer 2-4% improved ethanol yield potential per bushel of corn. Processor Preferred® HFC hybrids from Integra can help you:

• Achieve higher potential return for grower investors
• Realize higher yield potential in your field and your ethanol plant
• Reduce reliance on foreign oil
• Support your local economy and a cleaner environment.

Ask your local ethanol plant if they use Processor Preferred® HFC in their facilities.

Integra™ Fortified Seed offers Processor Preferred® corn hybrids. These hybrids have been selected to deliver grain compositional benefits to processors and unlock marketing opportunities for growers. These hybrids have been rigorously tested and have achieved the Processor Preferred® designation for their agronomic characteristics and higher levels of fermentable starch.

**MARKETING ADVANTAGES**

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**PROCESSOR PREFERRED™ HIGH FERMENTABLE CORN (HFC)**

Corn that can deliver higher levels of fermentable starch to dry mill ethanol plants, producing higher ethanol yields for greater profit potential.

**PROCESSOR PREFERRED™ HIGH EXTRACTABLE STARCH (HES)**

Corn that can deliver higher levels of extractable starch to corn wet millers, producing higher pure starch yields that are turned into high fructose corn syrup, specialty and commodity starch products and ethanol.
**Hybrid Corn - Relative Maturity 80-86 day**

- **6780-R**
  - RK MA: 88
  - High-yielding early hybrid for the north with solid agronomic traits.
  - Early to tassel with fast grain set.
  - Excellent root and stalk quality.
  - Semi-flex ear type.

- **6584-R, RB**
  - RK MA: 92
  - Excellent root and stalk strength.
  - Medium plant and ear height.
  - Medium test weight.

- **6683-R, RB**
  - RK MA: 88
  - String yield potential for moisture yield.
  - Impressive stalk and root strength.
  - Heavy test weight.
  - Semi-flex ear type.
  - Very good stalk and root strength.

- **9332-R, NEW**
  - RK MA: 90
  - Excellent yield potential for the north with solid agronomic traits.
  - Excellent root and stalk setting.
  - Medium plant and ear height.
  - Semi-flex ear type.

- **9361-R, RB, VT3**
  - RK MA: 88
  - String yield potential.
  - Impressive stalk and root strength.
  - Heavy test weight.
  - Semi-flex ear type.

- **6193-R**
  - RK MA: 88
  - Excellent yield potential.
  - Impressive stalk and root strength.
  - Medium plant and ear height.
  - Semi-flex ear type.

- **9453-VT3, NEW**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **6395-R, RB, VT3**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **6390-R**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **9422-VT3 NEW**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **6390-R**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

**Hybrid Corn - Relative Maturity 88-97 day**

- **6780-R**
  - RK MA: 88
  - High-yielding early hybrid for the north with solid agronomic traits.
  - Early to tassel with fast grain set.
  - Excellent root and stalk quality.
  - Semi-flex ear type.

- **6585-R, RB, VT3**
  - RK MA: 92
  - Excellent root and stalk strength.
  - Medium plant and ear height.
  - Medium test weight.

- **6385-VT3**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **9361-R, RB, VT3**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **6913-R**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **9453-VT3, NEW**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **6395-R, RB, VT3**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.

- **9470-VT3 NEW**
  - RK MA: 88
  - Excellent root and stalk strength.
  - Medium test weight.
  - Semi-flex ear type.
Hybrid Corn - Relative Maturity 97-109 day

9472-RVT3 NEW 95 photographers
• High yielding with excellent plant type
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9480-R VT3
• High yielding hybrid that features high yield potential and outstanding stalk strength and root health
• Fixed ear type requiring maximum populations
• Experienced performance in dry environments
• Superb range across the north

9511-RB VT3
• High yielding hybrid with excellent plant type
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

6602-RB
• Fixed ear type
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9602-R,RB VT3
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9612-R VT3
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9640-VT3 NEW 114 photographers
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9641-R, R B
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

Hybrid Corn - Relative Maturity 110-117 day

9520-RBC
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9521-VT3 NEW 119 photographers
• High yielding hybrid that features high yield potential and outstanding stalk strength and root health
• Fixed ear type requiring maximum populations
• Experienced performance in dry environments
• Superb range across the north

9530-RVT3
• High yielding hybrid with excellent plant type
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9591-RH
• High yielding hybrid with high yield potential and outstanding stalk strength and root health
• Fixed ear type requiring maximum populations
• Experienced performance in dry environments
• Superb range across the north

9650-VT3 NEW 114 photographers
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9662-R,RB VT3
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9651-R, R B VT3
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9610-VT3 NEW 114 photographers
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9652-R VT3
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9660-RVT3 NEW 114 photographers
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings

9611-R, R B
• High yielding hybrid
• Medium plant and ear height
• Strong root and stalk strength
• Good ear health
• Good stalk and root ratings
Hybrid Corn - Relative Maturity 117-120 day

9674-RVT3
- Seedling Vigor
- Stalk Quality
- Root Strength
- Staygreen
- Test Weight
- Drydown
- Outstanding yield potential
- Tremendous staygreen
- Exceptional ear flow
- Robust hybrid
- Improved stalk strength over 9673R

9676-VT3 NEW
- Seedling Vigor
- Stalk Quality
- Root Strength
- Staygreen
- Test Weight
- Drydown
- Tall hybrid features outstanding yield potential
- Medium ear height
- Same ease, the maintenance case
- Good late season health and intactness
- Excellent root for standability

9671-R
- Seedling Vigor
- Stalk Quality
- Root Strength
- Staygreen
- Test Weight
- Drydown
- Very good drought tolerance

9672-RVT3
- Seedling Vigor
- Stalk Quality
- Root Strength
- Staygreen
- Test Weight
- Drydown
- Outstanding yield potential
- Tremendous staygreen
- Exceptional ear flow
- Robust hybrid

9682-R
- Seedling Vigor
- Stalk Quality
- Root Strength
- Test Weight
- Production under irrigation
- High-quality, dual type hybrid

9690-VT3
- Seedling Vigor
- Stalk Quality
- Root Strength
- Test Weight
- Early maturity
- Very good test weight
- Good stalk performance
- Great staygreen

9701-VT3
- Seedling Vigor
- Stalk Quality
- Root Strength
- Test Weight
- Good stalk and root strength

- Field Notes
- Outstanding yield potential
- Tremendous staygreen
- Exceptional ear flow
- Robust hybrid

Additional hybrids featuring Hercules® will be offered as we evaluate the best fit for this technology.
**Hybrid Corn Agronomic Characteristics**

**Table Values**

<table>
<thead>
<tr>
<th>Plant Height</th>
<th>Ear Type</th>
<th>Flower Date</th>
<th>Plant Density</th>
<th>Phenotype</th>
<th>Yield Category</th>
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**Key**

- **T** = Tall
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- **F** = Floppy
- **R** = Round
- **K** = Knobby

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**Plant Density**

- **0** = None
- **1** = Sparse
- **2** = Moderate
- **3** = Dense

**Yield Category**

- **5.5** = Low
- **6.5** = Medium
- **7.0** = High

**Other Important Information**

- **C** = Corn
- **G** = Glycine
- **R** = Roundup
- **K** = YieldGard

**Always Read and Follow Pesticide Label Directions.**

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

**Hybrid Corn Plant Population (Per Acre)**

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**Integra Hybrid Corn Race Genetics**

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**Always Read and Follow Pesticide Label Directions.**

- **ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.**
For the past decade, corn silage has been taking on an ever-increasing role in livestock production. In response, STP hybrids were bred specifically for silage. STP hybrids have hybrid vigor for silage corn production instead of trying to select grain hybrids to be used for silage. Silage corn traits must be bred into the hybrid.

Integra believes that our customers deserve the best and our STP hybrids fill that order. These STP hybrids were bred specifically for silage. Integra breeds corn hybrids for silage corn.

**STP Leafy Silage Hybrid Advantage**

Integra's STP leafy silage hybrids are bred for high quality forage tonnage and whole plant digestibility of stalks and leaves. STP hybrids have tall, flexible stalks, slender stalks, wider leaves, and more leaves above the ear than grain hybrids, which means better standability. Integra's STP leafy silage hybrids have taller stalks and greater levels of digestible starch for increased production, compared to dual-type grain hybrids. Selected STP hybrids have a soft, white cob trait for greater palatability and digestibility. STP leafy silage corn hybrids have slow grain-filling periods, allowing the producer a longer opportunity to harvest at optimum moisture levels. Those hybrids that STP leafy hybrids have a 1-2 times longer window of harvest compared to dual-purpose hybrids. STP hybrids are highly adaptable across corn types and have an excellent agronomic, package, drought-tolerance, stress-tolerance, and root strength. Compared for grain hybrids, STP leafy hybrids produce twice the amount of carbohydrates above the ear.

**What’s the difference?**

<table>
<thead>
<tr>
<th>Trait</th>
<th>STP Leafy Hybrids</th>
<th>STP Leafy Silage Hybrids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain (Dual-type) Hybrids</td>
<td>• Hard kernels/hurricane high test weight</td>
<td>• Tall leafy hybrid that produces excellent palatability and digestibility</td>
</tr>
<tr>
<td>Strong stalks for durability</td>
<td>• Flexible stalks with thinner stalk rinds</td>
<td>• Strong stalks for standability</td>
</tr>
<tr>
<td>High ear placement for grain harvest</td>
<td>• Medium ear placement</td>
<td>• Very good standability</td>
</tr>
<tr>
<td>Fast kernel dry down for early grain harvest</td>
<td>• Slow kernel dry down for early harvest</td>
<td>• Taller plant height, 9-10 leaves above the ear</td>
</tr>
</tbody>
</table>

**STP Leafy Silage Hybrid**

- STP7808R
  - Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP8078R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP7888R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP7989**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP7805R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP78D88-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP8705-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP8785-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**Leafy Silage • Relative Maturity 85-108 day**

**STP7878-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**Leafy Silage • Relative Maturity 107 day**

**STP7879-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**Leafy Silage • Relative Maturity 118 day**

**STP7888**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP7897-R**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre

**STP7878-**

- Grower vigor
  - Silage Quality
  - Excellent whole plant digestibility
  - Flowers that produce less leaves above the ear
  - High quality tonnage with excellent digestibility
  - Very good root strength
  - Very good standability
  - Recommended harvest population for 25,000 to 28,000 plants per acre
### Leafy Silage Hybrid Corn Agronomic Characteristics

<table>
<thead>
<tr>
<th>Trait</th>
<th>Planting</th>
<th>Plant Growth</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variety</td>
<td>StP7897</td>
<td>StP8705</td>
<td>StP8708</td>
</tr>
<tr>
<td>Yellow Type</td>
<td>FL</td>
<td>FL</td>
<td>FL</td>
</tr>
<tr>
<td>Ear Alignment</td>
<td>L</td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td>Ear Height</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Kernel Color</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Color Quality</td>
<td>K</td>
<td>K</td>
<td>K</td>
</tr>
<tr>
<td>Leaf Color</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>SI Trait</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>K comes</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>R comes</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**KEY**

- **Value-added Trait Technology**
- **STP Slage that Produces™**
- **R** Roundup Ready®/Corn 2
- **RC** YieldGard® Rootworm

**Stewardship Requirements**

- **Market Choice**
- **BM**

**Ratings**

- **Ear Frequency**
- **Ear Type**
- **Plant Height**
- **Leaves above Ear**
- **Kernel Texture**
- **Cob Color**
- **Silage Quality**
- **Whole Plant Digestibility**
- **Tonnage Potential**
- **Silage that Produces™**

- **Value-added Trait Technology**
- **STP Slage that Produces™**
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**Ear Frequency**

- **Ear Frequency**
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- **Plant Height**
- **Leaves above Ear**
- **Kernel Texture**
- **Cob Color**
- **Silage Quality**
- **Whole Plant Digestibility**
- **Tonnage Potential**
- **Silage that Produces™**

Since the STP slage hybrids have a high yield potential, make sure you select your best fields for STP hybrids to generate the highest potential yields.

**Number of 80,000 Kernel Units Needed**

<table>
<thead>
<tr>
<th>Acres Per Unit</th>
<th>Total Acres Planted</th>
</tr>
</thead>
<tbody>
<tr>
<td>15,000</td>
<td>15.3</td>
</tr>
<tr>
<td>16,000</td>
<td>16.0</td>
</tr>
<tr>
<td>17,000</td>
<td>17.0</td>
</tr>
<tr>
<td>18,000</td>
<td>18.0</td>
</tr>
<tr>
<td>19,000</td>
<td>19.0</td>
</tr>
<tr>
<td>20,000</td>
<td>20.0</td>
</tr>
</tbody>
</table>

**Integra Product Guide**

- **L E a F y  S I L a G E  c o r n**

- **Unit Requirement (based on 80,000 kernel unit)**

- **Total Acres Planted**

- **Units Required (round off to closest unit)**

- **Plant Population Per Acre**

- **Projected Potential Yields**

- **YieldGard® RC**

- **Roundup Ready®/Corn 2**

- **YieldGard® Rootworm**

- **Silage that Produces™**

- **Value-added Trait Technology**

- **STP Slage that Produces™**

- **R** Roundup Ready®/Corn 2

- **RC** YieldGard® Rootworm

- **Ear Frequency**

- **Ear Type**

- **Plant Height**

- **Leaves above Ear**

- **Kernel Texture**

- **Cob Color**

- **Silage Quality**

- **Whole Plant Digestibility**

- **Tonnage Potential**

- **Silage that Produces™**

- **Value-added Trait Technology**

- **STP Slage that Produces™**

- **R** Roundup Ready®/Corn 2

- **RC** YieldGard® Rootworm
Integra™ Alfalfa

Our Integra brand alfalfas are protected with one of the most effective and reliable seed treatment products available.

In addition to Apron® XL LS, a clay-based pre-inoculant (Thermal™) containing the Rhizobium Sinorhizobium meliloti is utilized as a seed treatment to promote establishment of nitrogen fixing nodules.

The Manifest™ Seed Treatment System found on our Integra brand alfalfas offers the following benefits:

- Exceptional stand persistence and early seedling vigor
- Excellent leaf retention
- Long regrowth after cutting
- High resistance to spotted alfalfa aphid and blue alfalfa aphid, plus numerous other insects
- Multifoliate trait for very good forage quality
- Excellent early seedling vigor
- Excellent late season stand

Forage Quality

- Excellent winter hardiness
- Excellent drought resistance
- Average early seedling vigor
- High tonnage combined with excellent forage quality and milk lbs./acre

Insect Resistance

- Exceptional and good foliage quality
- Exceptional late season stand
- Excellent choice for forage production in semi-dormant regions of the U.S.
- Fast recovery after cutting
- Excellent late season stand

Our Integra brand alfalfas are protected with one of the most effective and reliable seed treatment products available.

Integra Product Guide

A word about Roundup Ready® Alfalfa: There are a few things you should know about Roundup Ready® technology and how it works. First of all, it is not offered as a complete line of products as soon as this valuable technology is once again made available to farmers and dairymen in the United States.
Integra™ Soybeans

The Manifest™ Seed Treatment System found on our Integra brand soybeans includes the addition of a proprietary and patented plant extract that can promote plant health and growth, especially when the plants are under stress such as temperature extremes, soil moisture, soil strength, and soil chemistry. Field tests have demonstrated that a stronger, healthier seedling will have a better opportunity to achieve maximum yield potential.

Intentional Selection

The components of the Manifest™ Seed Treatment System were selected with the intention of providing the best protection and value for the Integra brand seed in most crop situations.

Due to different cropping practices the Manifest™ Treatment System may vary as described above to meet the needs of our customers.

No-Till Soybean Varieties

Integra’s No-Till logo identifies soybean varieties that are proven to excel in reduced tillage systems. These varieties have strong agronomics that are suited to no-till situations.
**SOYBEANS • Relative Maturity 0.03-0.20**

**77100R**

**Integra Brand Soybean Numbering System**

- “7” denotes soybean
- “0” indicates introduced prior to 2007 as “9” indicates conventional and “0” a soybean with Roundup® Ready technology

This number denotes the relative maturity. To this example, the relative maturity is 1.80.

**Roundup® Ready 2 YIELD: **

**“Taking soybean yield to a higher level.”**

Roundup® Ready 2 Yield is taking soybeans to a whole new level through advanced technology and breeding:

- The next generation of Roundup® Ready delivering superior
yield potential.
- Great years of research demonstrated a 2.5-3% yield increase over Roundup® Ready Yield.
- Same simple, dependable weed control system you enjoy with Roundup® Ready soybeans.

Roundup® Ready soybeans are:

- Yielding soybean
- The Roundup® Ready choice for your fields.

**REAP THE BENEFITS OF PLANTING NEW SOYBEAN SEED:**

- Higher yields and higher buing grade in key areas.
- Access to the most elite germplasm.
- Average yields of 30 to 35 percent higher than new-certified seeds.
- Biennial planting rates are generally 15 percent higher than new-certified seed.
- Days ago, support before and after the sale.
- Risk-management benefits of Roundup® Ready.

*Roundup® Ready 2 Yield: (over $400 million paid to growers since 1997)*

**Royalties provide research and development of new traits and higher yielding germplasm.**

- Seed companies and Farmers are committed to our customers’ success.

---

## Soybean Technology

### 79004-R NEW

- **Relative Maturity:** 4.0 Maturity
- **Yield Potential:** 35 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Great high yielding traits for the Valley
- Extremely high roundup tolerance
- Good RDF and high yield tolerance
- Good RNK, Maturity, and velocity
- Excellent high yield potential

**Additional Features:**

- Fantastic field for fall
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

### 79007-RS

- **Relative Maturity:** 3.9 Maturity
- **Yield Potential:** 40 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Exceptional bushel for early Sept.
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

### 97001-R

- **Relative Maturity:** 2.0 Maturity
- **Yield Potential:** 35 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Higher bushel for early Sept.
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

### 97002-R

- **Relative Maturity:** 2.0 Maturity
- **Yield Potential:** 35 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Higher bushel for early Sept.
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

### 97009-R NEW

- **Relative Maturity:** 4.0 Maturity
- **Yield Potential:** 40 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Exceptional bushel for fall
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

### 97014-R

- **Relative Maturity:** 1.0 Maturity
- **Yield Potential:** 30 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Exceptional bushel for fall
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

### 97020-R NEW

- **Relative Maturity:** 2.0 Maturity
- **Yield Potential:** 40 bushels per acre
- **Emergence:** Excellent
- **Establishment:** Excellent
- **Germplasm:** Brown Stem Disease: Not Rated

**Features:**

- Exceptional bushel for fall
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

---

**Ready Rewards®**

- One of the earliest stacked RR/STs
- Unique bushel for early Sept.
- Small and big, great value
- Outstanding ECE scores
- Very high seed quality
- Can go in early or on late

**Iron deficiency chlorosis**

- Not rated for Iron deficiency chlorosis
- Not rated for Iron deficiency chlorosis
- Not rated for Iron deficiency chlorosis
- Not rated for Iron deficiency chlorosis
- Not rated for Iron deficiency chlorosis

**Brown Stem rot**

- Not rated for Brown Stem rot
- Not rated for Brown Stem rot
- Not rated for Brown Stem rot
- Not rated for Brown Stem rot
- Not rated for Brown Stem rot

**Sclerotinia white Mold**

- Not rated for Sclerotinia white Mold
- Not rated for Sclerotinia white Mold
- Not rated for Sclerotinia white Mold
- Not rated for Sclerotinia white Mold
- Not rated for Sclerotinia white Mold

**Phytophthora root rot**

- Not rated for Phytophthora root rot
- Not rated for Phytophthora root rot
- Not rated for Phytophthora root rot
- Not rated for Phytophthora root rot
- Not rated for Phytophthora root rot

**Field tolerance to Phytophthora**

- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora

**Field tolerance to Phytophthora**

- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora
- Exceptional field tolerance to Phytophthora

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**Relative Maturity**

- 0.03 - 0.20
- 0.03 - 0.20
- 0.03 - 0.20
- 0.03 - 0.20
- 0.03 - 0.20
**SOYBEANS • Relative Maturity 0.30-1.00**

**79031-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Great all season rootability
- Excellent yield potential
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79060-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**90632-R** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79100-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79101-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79080-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**96018-R** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79090-R** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79100-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79160-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**78170-R** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**97171-R** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00

**79190-R NEW** 1.00-1.50

- Emergence
- Standability
- Emergence
- Resistance
- Tolerance
- Yield
- Quality
- Value
- Standard lateral branching
- Soya Beans • Relative Maturity 0.30-1.00
SOYBEANS - Relative Maturity 2.00-2.60

### 79200 - R NEW

- **Emergence**: Fast
- **Disease Resistance**: Reduced
- **Yield**: Good
- **Stalk**: Tall
- **Canopy**: Medium-Tall
- **Roundup Ready® Soybean

### 78202 - R NEW

- **Emergence**: Fast
- **Disease Resistance**: Reduced
- **Yield**: Good
- **Stalk**: Tall
- **Canopy**: Medium-Tall
- **Roundup Ready® Soybean

### 79220 - RN

- **Emergence**: Fast
- **Disease Resistance**: Reduced
- **Yield**: Good
- **Stalk**: Tall
- **Canopy**: Medium-Tall
- **Roundup Ready® Soybean

### 79250 - RN NEW

- **Emergence**: Fast
- **Disease Resistance**: Reduced
- **Yield**: Good
- **Stalk**: Tall
- **Canopy**: Medium-Tall
- **Roundup Ready® Soybean

### 79260 - RN NEW

- **Emergence**: Fast
- **Disease Resistance**: Reduced
- **Yield**: Good
- **Stalk**: Tall
- **Canopy**: Medium-Tall
- **Roundup Ready® Soybean

---

### KEY

- **White mold**: Reduced
- **Brown Stem rot**: Reduced
- **Iron deficiency chlorosis**: Reduced

### Ratings

- **Soybean Planting Guide**: Seeds Per Acre
- **Soybean Agronomic Characteristics**: Seeds Per Acre

### Notes

- All agronomic characteristics and ratings may vary with growing conditions and environment.
- Ratings are approximate and should not be considered as absolute.
- Ratings on new varieties are based on limited data and may change as more data are collected.

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### Reference

http://www.dupont.com/ag/products/ or call 1-800-515-7333.

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### Additional Information

- Visit our website for more information on crop stewardship regarding the potential movement of pollen to neighboring crops.
- Follow RRm and Gain Marketing Requirements.
Protection for the Extremist

Protection begins with Apron® XL LS (mefenoxam) that guards against damping-off caused by Pythium. Additionally, the seed is protected from seed-borne and soil-borne fungi such as Fusarium, Rhizoctonia Solani, and Helminthosporium through the use of Maxim® 4FS (Fludioxonil) fungicide.

An added option to the Integra brand sorghum is the ability to add the seed dressing product Concept® III (Fluxofenin) that protects grain and forage sorghum from phytotoxic effects of S-metolachlor containing herbicides.

The Manifest™ Seed Treatment System found on our Integra brand sorghum includes the addition of a proprietary and patented plant extract that can promote plant health and growth, especially when the plants are under stress such as temperature extremes, soil moisture, soil strength, and soil chemistry. Field tests have demonstrated that a stronger, healthier seeding will have a better opportunity to achieve maximum yield potential.

The components of the Manifest™ Seed Treatment System were selected with the intention of providing the best protection and value for the Integra brand seed in most crop situations.

Due to different cropping practices the Manifest™ Treatment System may vary as described above to meet the needs of our customers.

Our Integra brand sorghum varieties are protected with the most effective and reliable seed treatment products available. The active ingredients used in the Manifest™ Seed Treatment System are a combination of contact and systemic fungicides.

Field Notes
### Hybrid Forage Sorghum

**Integra’s Cadan**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s SweetStem, WMR®**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s NK300**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Hikane II**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Trudan 8**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Trudan Headless**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Millex 32**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s SP3303**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Sucrosorgo 405**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Sordan 79**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s Sordan Headless**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s K3510**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s K35Y5**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s NK418**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s KS585**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s KS310**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield

**Integra’s KS3Y5**
- Exceptional leaf-to-stem ratio
- Early growth rate
- High energy with excellent total digestible nutrients (TDN/ton)
- Exceptional standability with good drought tolerance
- Mid-season hybrid, performs exceptionally well under adverse conditions and produces consistent yield
**Hybrid Grain Sorghum**

- **NK6641**
  - Grain Sorghum
  - Variety: NK6641
  - Adapted to both irrigation and dryland
  - Very good yield potential
  - Good drought tolerance
  - Standability
  - Excellent field uniformity

- **NK6638**
  - Grain Sorghum
  - Variety: NK6638
  - Well-adapted for irrigation or dryland
  - Excellent standability
  - Uniform plant type
  - Good threshability
  - Open head for fast drydown

- **NK6673**
  - Grain Sorghum
  - Variety: NK6673
  - MDMV tolerant
  - Good drought tolerance
  - Standability
  - Emergence

- **NK7655**
  - Grain Sorghum
  - Variety: NK7655
  - Good drought tolerance
  - Medium height, very good standability
  - Adapted for narrow rows
  - Staygreen and disease resistance

- **K73-J6**
  - Grain Sorghum
  - Variety: K73-J6
  - Easy threshability
  - Uniform plant type
  - Excellent yield for maturity
  - Anthracnose resistance
  - Agronomic Characteristics and ratings may vary with growing conditions and environment. Ratings are approximate and should not be considered as absolute.

- **KS711Y**
  - Grain Sorghum
  - Variety: KS711Y
  - Improved Standability & Field uniformity
  - Resistance to Common Scab and Fusarium Head blight
  - Adapted for narrow rows
  - Staygreen and disease resistance

- **NK8311**
  - Grain Sorghum
  - Variety: NK8311
  - Good drought tolerance
  - High yield potential
  - Standability
  - Emergence

- **NK8828**
  - Grain Sorghum
  - Variety: NK8828
  - High yield potential
  - Drought tolerant in central Texas
  - High plains irrigated
  - Good standability and early threshability
  - Bronze grain color

**Sorghum Grain Forage Agronomic Characteristics**

- **NK8828**
  - Variety: NK8828
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8829**
  - Variety: NK8829
  - Sordan headless
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8838**
  - Variety: NK8838
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8839**
  - Variety: NK8839
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8848**
  - Variety: NK8848
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8849**
  - Variety: NK8849
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8858**
  - Variety: NK8858
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8868**
  - Variety: NK8868
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8878**
  - Variety: NK8878
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8888**
  - Variety: NK8888
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8898**
  - Variety: NK8898
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8833**
  - Variety: NK8833
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8834**
  - Variety: NK8834
  - Sordan 79
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  - Linearity
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- **NK8835**
  - Variety: NK8835
  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8836**
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  - Sordan 79
  - Seeds/lb (000)
  - Linearity
  - Maturity

- **NK8837**
  - Variety: NK8837
  - Sordan 79
  - Seeds/lb (000)
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  - Seeds/lb (000)
  - Linearity
  - Maturity

All agronomic characteristics and ratings may vary with growing conditions and environment. Ratings are approximate and should not be considered as absolute.

**KEY**

- Ratings: 1-9
- Maturity: E = Early, M = Medium, T = Tall
- Relative Height: F = Full, M = Medium, T = Tall
- Moisture: D = Dry, I = Irrigated
- Standability: E = Early, M = Medium, L = Late
- Yield Stability: High, Medium, Low
- Disease Resistance: None, Good, Excellent
- Anthracnose Resistance: None, Low, Medium, High
- Drought Tolerance: None, Low, Medium, High
- Leafiness: 2-3 = Fair, 4-5 = Good, 6-7 = Very Good, 8-9 = Excellent

**Insignificant data (%)**

- Insignificant data (%)
Field Notes

Stress... No Problem

Completing the Manifest™ Seed Treatment System is the addition of a proprietary and patented plant extract that can promote plant health and growth, especially when the plants are under stress such as temperature extremes, soil moisture, soil strength, and soil chemistry.

Field tests have demonstrated that a stronger, healthier seedling will have a better opportunity to achieve maximum yield potential.

Each component of the Manifest™ Seed Treatment System was selected with the intention of providing the best protection and value for the Integra brand seed in most crop situations.

Due to different cropping practices the Manifest™ Treatment System may vary as described above to meet the needs of our customers.

Our Integra brand sunflower varieties are protected with a proven and effective seed treatment system that includes the CruiserMaxx™ Sunflower Package. (Thiamethoxam, Mefenoxam, Fludioxonil). These active ingredients are a combination of contact and systemic fungicides, with a powerful systemic insecticide. Together they provide protection against damage from certain insects, seed-borne diseases, and seedling disease.
### Hybrid Sunflower Agronomic Characteristics

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Plant Height</th>
<th>Stalk Strength</th>
<th>Center Fill</th>
<th>Drought Tolerance</th>
<th>Oil Content</th>
<th>Yield Potential</th>
<th>Plant Height</th>
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<td>S</td>
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<td>9</td>
<td>95</td>
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<tr>
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<td>8</td>
<td>9</td>
<td>7</td>
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<td>High</td>
</tr>
<tr>
<td>737 NS CL</td>
<td>M</td>
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<td>8</td>
<td>9</td>
<td>7</td>
<td>7</td>
<td>High</td>
</tr>
</tbody>
</table>

**Field Notes**

The CLEARFIELD® Production System for sunflower is a unique system comprised of herbicide-resistant hybrids and Beyond™ herbicide to manage green foxtail (pigeon grass), other foxtail species, marshelder, wild mustard, cocklebur, and other tough grasses and broadleaf weeds. Beyond is the only post-emergence herbicide that provides contact and residual control of a wide range of both broadleaf and grass weeds in sunflowers.

*All agronomic characteristics and ratings vary with growing conditions and environment. Ratings are approximations and should not be used as absolute. Ratings on new hybrids are based on limited data and may change as more data are collected. Extreme conditions may adversely affect hybrid performance.*
Integra™ Canola

Our Integra brand canola varieties are protected with effective and proven seed treatment chemistry. The active ingredients found in the Manifest™ Seed Treatment System are a combination of contact and systemic fungicides with a powerful systemic insecticide.

Range - RR

• Camas - RR

- Early maturing Roundup Ready® semi-regular fall
- Excellent standability, uniform in appearance
- Short in height, allows for ease of swathing
- Impressive early season emergence
- Very high yield potential

- Roundup Ready® technology
- High yielding with excellent standability
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Canola Agronomic Characteristics

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (bu/acre)</th>
<th>Test Weight (pounds)</th>
<th>Physiological Maturity</th>
<th>Blackleg</th>
<th>Fusarium</th>
<th>Phytophthora</th>
<th>Oil Content</th>
<th>CAM/AMS</th>
<th>Blue Mold</th>
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<tbody>
<tr>
<td>RangeRR</td>
<td>80-90</td>
<td>40-46</td>
<td>R</td>
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<td>3.0</td>
<td>6.0</td>
<td>3.0</td>
<td>MR</td>
<td>MR</td>
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</tr>
</tbody>
</table>

GROWERS WHO CHOOSE TO PURCHASE ROUNDUP READY™ CANOLA MUST FOLLOW THESE STEPS:

• Sign a Monsanto Technology/Stewardship Agreement.
  This agreement allows growers to purchase all current and new Roundup Ready® technologies. Growers who sign agreements receive a Technology Card and Monsanto Technology I.D. number.

• Sign up for Roundup Ready® Canola acres.
  This requires growers to purchase a CUA. Separate CUAs must be opened for spring and fall plantings.

• Purchase the seed.
  To purchase Roundup Ready® Canola seed, growers must provide a copy of their CUA to an authorized Wilbur-Ellis dealer in order to receive seed.

• Randomly selected acres.
  A Monsanto Authorized Retailer will visit each farm and complete the legal description of the final planted acres on the CUA form. Monsanto randomly audits retailers for compliance with this reconciliation requirement through on-farm visits by a Canola Stewardship Representative.

ALMOND AND FOLLOW FESTIVAL CULTIVAR LABEL INSTRUCTIONS. Growers should refer to the Technology Guide for information on crop stewardship regarding the potential movement of pollen to neighboring crops.

For all questions contact Wilbur-Ellis Service Centers or Wilbur-Ellis Authorized Retailers. For Roundup Ready® Canola, visit the Roundup Ready® Canola website at www.RoundupReady.com or call your local Wilbur-Ellis office. Roundup Ready® Canola is a trademark of Monsanto Company LLC.
**Technology Stewardship**

**Growing biotech trait seed requires sound stewardship to preserve the technology for years to come.**

**Growers do their part**

Growers who choose to use seed with a Monsanto biotech trait seed must:
- Sign a Monsanto Technology Stewardship Agreement.
- Comply with Environmental Protection Agency (EPA) regulations by following Insect Resistance Management (IRM) practices for specific traits.
- Plant patented seed only to produce a single, commercial crop, without saving progeny seed for planting a subsequent crop.
- Self-harvested corn with biotech traits not yet approved by the European Union does not bind the handler or grower to follow the IRM guidelines.
- Failure to follow IRM guidelines and properly plant a refuge may result in the revocation of the grower’s Monsanto Technology Agreement.
- Planting a refuge is an EPA requirement for production of a single, commercial crop, including Patent No. 5,352,605. In addition, the germplasm in conventional and Roundup Ready soybean varieties may be protected under one or more United States patents. Replanting sound seed of Roundup Ready soybeans or patented conventional soybeans, or transferring patented seed to others for planting is unauthorized and constitutes patent infringement.

**Saving to replant**

IMPORTANT INFORMATION FOR INDIVIDUALS SAVING SOYBEAN SEED FOR REPLANTING:

- Seed containing the Roundup Ready® gene cannot be saved for replanting. All seeds containing the Roundup Ready® trait are protected under numerous United States patents, including Patent No. 5,352,605. In addition, the germplasm in conventional and Roundup Ready soybean varieties may be protected under one or more United States patents. Replanting sound seed of Roundup Ready soybeans or patented conventional soybeans, or transferring patented seed to others for planting is unauthorized and constitutes patent infringement.

- Seed proxy also hinders the development of future technologies and that benefits the soybean industry.

**Grower notification**

Samples of cleaned or conditioned soybean seed batches may be retained to identify the seed.

**Technology stewardship**

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**Grower notification**

Samples of cleaned or conditioned soybean seed batches may be retained to identify the seed.

**Technology stewardship**

**Corn Refuge**

- **Split Planter**
  - 20% non-B.t. corn borer
  - Separate Field, Block, Perimeter
  - Planting a refuge is a EPA requirement for YieldGard® Corn Borer and YieldGard® VT® Roundup Ready® fields.

**YieldGard® & Herculex®**

- Insect Resistance Management Requirements
  - Planting a corn refuge maintains a population of corn borers that are not exposed to the B.t. protein.
  - Plant at least 20% of your acres on each farm as a refuge. Corn planted in the refuge will not contain B.t. technology to control corn borers.
  - Plant the refuge within a mile (see crop- and refuge-specific instructions in the YieldGard® or Herculex® Corn refuge guide) of the YieldGard® Corn Borer or Herculex® corn.
  - Refuge can be a block in or field strip (four consecutive rows minimum, six rows preferred, in each strip).
  - Planting a refuge is an EPA requirement for YieldGard® Corn Borer and YieldGard® VT® Roundup Ready® fields.

**YieldGard® Rootworm & YieldGard® VT Rootworm**

- Insect Resistance Management Requirements
  - Plant up to 80% of your acres with commercially available YieldGard® Root worm® or YieldGard® Root worm® VT® fields.
  - Plant at least 20% of your acres on each farm as a refuge. Corn planted in the refuge will not contain B.t. technology to control corn root worms.
  - Plant the refuge within or adjacent to the YieldGard® Root worm® or YieldGard® Root worm® VT® fields.
  - Refuge can be a block or field strip (six consecutive rows minimum, 12 rows preferred, in each strip).
  - Planting a refuge is an EPA requirement for YieldGard® Root worm® and YieldGard® VT® Root worm® fields.

**YieldGard® Plus & YieldGard® VT® Trip le**

- Insect Resistance Management Requirements
  - Growers have two choices when planning their refuge for YieldGard® Plus or YieldGard® VT® Trip le.
  - **Common refuge**: Plant a refuge that will serve as the refuge for both corn borers and corn root worms.
  - **Separate refuge**: Plant a separate refuge for corn borers and a separate refuge for corn root worms. The corn root worm refuge can be planted with YGCB, RR/YGCB, YGVT® or conventional corn. The corn root borer refuge can be RR or conventional corn.
  - Planting a refuge is an EPA re-requirement for YieldGard® Plus and YieldGard® VT® Trip le.
Making Seed Quality a Priority

Integra has made a significant commitment to ensuring that only the highest quality material goes into every bag of seed. This is accomplished by adopting the most advanced equipment and techniques available during handling, screening and processing.

As an example of this is the use of optical sorting technology. This process allows consistent removal of discolored, cracked or otherwise damaged seed. Although the process is expensive and increases the amount of screening and processing, Integra has made a significant commitment to adopting the most advanced equipment and techniques available during handling, screening and processing.

Integra also verifies our customers receive certified seed labs to measure physical and genetic quality. Some seed companies rely on their certified seed labs to measure physical and genetic quality. Some seed companies may cut corners and deliver only the minimum required. Integra’s customers can be assured that no corners are cut and that their seed is delivered only after meeting or exceeding the highest standards.

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You will find a variety of helpful tools

- Information on new product releases and the latest biotechnology offerings
- Detailed profile sheets of each of the Integra products
- Planting and product management information
- The latest news and developments regarding the seed industry
- Links to other valuable agricultural web sites
- Contact information for the Integra Seed Team

**corn • leafy silage • soybeans**

**sunflowers • alfalfa • sorghum • canola**

Visit Integra™ at www.FortifiedSeed.com

The new Integra™ website is a great source of information to assist you in selecting the best seed technology for your farm.