Thank you for your interest and use of Acceleron® Seed Treatment Products at your treating site. We have designed this guide as a quick start to your treating season by beginning with a section titled “What’s New for 2013” to allow you to see any changes we’ve made for the 2013 treating season and allow you to make seed treating decisions.

If you are just learning about the benefits of Acceleron® Seed Treatment Products and how to become an Acceleron® treating site, you will find this Product Guide to be a good first step in getting the information you will need. This is not the only piece of information you will need or want while learning about our seed treatment products. Other useful documents can be viewed and downloaded at MyMonsanto.com.

Your first conversation about Acceleron® Seed Treatment Products will most likely be with your DSM (District Sales Manager), who will answer most of your seed treatment questions, but always feel free to contact us directly by calling the Seed Treatment Operations Team at 877-775-8787.

This document does not replace EPA approved labels and other essential documents such as the Seed Treatment Application Guidelines for Acceleron® Seed Treatment Products for Soybeans. Please refer to EPA approved labels for each product for specific directions. All products may not be registered for use in all states.
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**What's New for 2013?**

**Acceleron® Product Changes**

**Acceleron® DX-612 Fungicide Seed Treatment**

- An additional fungicide is included in the Acceleron® Soybean Seed Treatment Products for the 2013 season.
- The active ingredient is Fluxapyroxad and will provide increased activity against Rhizoctonia and Fusarium.
- This fungicide will be included in all offerings of Acceleron® Seed Treatment Products for soybean. **You will not need to order it separately.**
- If you have Acceleron® Seed Treatment products that are carried over from last season, you have the option to purchase Acceleron® DX-612 Fungicide Seed Treatment to upgrade your carry over products to the 2013 product offering. Acceleron® DX-612 Fungicide Seed Treatment will be available in 1.5 gallon containers that will treat approximately 1,600 units of soybean seed.

**Acceleron® Insecticide and Fungicide Custom Blended Seed Treatment Products**

- Due to the addition of Acceleron® DX-612 Fungicide Seed Treatment, the use rate of the combined products will be 4.24 fluid ounces per 100 pounds of seed or 2.12 fluid ounces per 140,000 seed count unit.
- You will need to add some additional water or other liquids to ensure complete coverage on the seed. A total of 6 fluid ounces per 100 pounds of seed is a good place to start, but each site will want to adjust this to their preference.
- Due to new use rates, a 15 gallon drum will treat 850 units of seed, and the 30 gallon drum will treat 1,700 units of seed.

**Acceleron® Fungicide Custom Blended Seed Treatment Products**

- Due to the addition of Acceleron® DX-612 Fungicide Seed Treatment, the use rate of the combined products will be 2.24 fluid ounces per 100 pounds of seed or 1.12 fluid ounces per 140,000 seed count unit.
- You will need to add some additional water or other liquids to ensure complete coverage on the seed. A total of 4 fluid ounces per 100 pounds of seed is a good place to start, but each site will want to adjust this to their preference.
- A 15 gallon drum will treat 1,600 units of seed, and the 30 gallon drum will treat 3,200 units of seed.
Fungicide Pallet Pak 160

- Acceleron® DX-612 Fungicide Seed Treatment will be added to this Pak. You will have a 2×1.5 gallon case included in this Pak.
- The use rate for Custom Color Red 1497 will be increased for 2013 to 0.8 fluid ounces per 100 lbs. of seed. You will be getting 10 gallons of Custom Color Red 1497 packaged in 2 cases of 2×2.5 gallons.
- The use rate of all combined products will be 2.24 fluid ounces per 100 pounds of seed or 1.12 fluid ounces per 140,000 seed count unit.
- You will need to add some additional water or other liquids to ensure complete coverage on the seed. A total of 4 fluid ounces per 100 lbs. of seed is a good place to start, but each site will want to adjust this to their preference.

Fungicide & Insecticide Pallet Pak 80

- Acceleron® DX-612 Fungicide Seed Treatment will be added to this Pak. You will have 1.5 gallon included in this Pak.
- The use rate of all combined products will be 4.24 fluid ounces per 100 pounds of seed or 2.12 fluid ounces per 140,000 seed count unit.
- You will need to add some additional water or other liquids to ensure complete coverage on the seed. A total of 6 fluid ounces per 100 lbs. of seed is a good place to start, but each site will want to adjust this to their preference.
New Soybean Excel Calculator

- The mix tank rate calculator is updated each season. Make sure you have the 2013 version. The 2013 version will have Acceleron® DX-612 Fungicide Seed Treatment incorporated into it.
- Available for download at MyMonsanto.com.
- Allows applicators to develop mix recipes and calibrate seed treatment equipment
- New for 2013: Fields to allow applicators to add customized products to the mix tank such as polymers, inoculants, etc.

The 2013 Calculator Sheet – You will fill in areas shaded in yellow with information about your treating needs – The Mix Tank area will automatically calculate and populate the appropriate fields below.
Steps for using the 2013 Acceleron® Calculator:

Step 1: Select the desired tab at the bottom of the spreadsheet

- “2013 Products with custom blending” – Use this sheet if you are using Acceleron® Seed Treatment Products that have been custom blended for you.

- “2013 Pallet Paks” – Use this sheet if you are using Acceleron® Seed Treatment Products from Pallet Paks.

- ”Poncho®/VOTiVO® Separate” – Use this sheet if you want to include Poncho®/VOTiVO® but don’t want to mix it in the same tank with other seed treatments.

- “Application Record Sheet” – Use this to help design your own seed treatment application records.
Steps for using the 2013 Acceleron® Calculator:

Step 2: Applicator to make choices about the seed treatment mixture and application in the upper yellow section

- User will decide and enter –
  a. Which Acceleron® Seed Treatment Products offering to use
     • Insecticides and Fungicides or Fungicides only
  b. Would you like to also apply Poncho®/VOTiVO®
     • Yes or No
  c. Total gallons of mix desired – *This includes Acceleron® Seed Treatment Products, other products and water.*
  d. Do you want to base your application on:
     • fluid ounces per 100 pounds of seed, or
     • fluid ounces per 140,000 seed count unit of seed
  e. Seed count [seeds per pound] of the seed being treated
     • *This will calculate the unit weight and number of units that could be treated*
  f. The targeted application rate of the mix – fluid ounces per 100 pounds of seed
  g. How many pounds per minute will you treat
  h. Add any additional products you will add to the mix tank. You will need the use rate for those products in fluid ounces per 100 pounds of seed and the density of the product expressed as pounds per gallon.
Steps for using the 2013 Acceleron® Calculator:

Step 3: Mix tank recipe

- Each of the products will be calculated based on the selections made in Step 2.
- The seed treatment product will be displayed with the quantity to be measured into the mix tank.
  - a. Volume: gallons and fluid ounces to be measured
  - b. Weight: pounds to be added

Step 4: Adjusting the seed treatment calibration

- Before you can begin treating seeds, you will need to adjust the seed treater to ensure seed treatment accuracy. In Step 2, we determined we would treat 1,500 pounds of seed per minute.
- Perform the seed flow calibration steps for your treater, if not done already.
- In the Treater Calibration Section you will find the needed “fluid ounces per minute” that should be pumping through your treater.
  - a. Adjust the chemical metering pump to the correct liquid flow rate.
- You are now ready to treat seeds.
Steps for using the 2013 Acceleron® Calculator:

**Step 5: Determine your seed treatment accuracy**

- In the Seed Treatment Use Section, you will see the expected usage displayed by volume and weight.
  
  a. Volume = fluid ounces of seed treatment mix per seed unit
  
  b. Weight = pounds of seed treatment mix per seed unit
  
- Determine the quantity of seed treated and then multiply by the expected usage.
  
- Compare the actual usage with the expected to determine your accuracy.

\[
\frac{\text{Actual Usage}}{\text{Expected Usage}} = \% \text{ of Targeted Rate}
\]
New Bag Tag Available

- The bag tag for downstream treating sites has been updated to include Acceleron® DX-612 Fungicide Seed Treatment. Each treating site will be shipped a package of the new tags. It is essential to use the correct tag for your treated seeds. Additional tags can be requested from the Seed Treatment Operations Team.

- When treatments are applied to seeds, the seeds must be labeled to comply with state and federal laws.

- Monsanto will provide labels to downstream treating sites.

- The treating sites will complete the top portion with needed information.

- Attach label to mini bulk or hardside box. If seed is bulk, attach it to the delivery paperwork.

- The top portion of the tag is carbonless copy paper, and the front flap can be removed for your records.

### What's New for 2013?

- **New Bag Tag Available**: The bag tag for downstream treating sites has been updated to include Acceleron® DX-612 Fungicide Seed Treatment. Each treating site will be shipped a package of the new tags. It is essential to use the correct tag for your treated seeds. Additional tags can be requested from the Seed Treatment Operations Team.

- **Personal Protective Equipment**: Handle treated seeds in ventilated areas. Wear protective equipment such as long-sleeved shirt, long pants, socks and shoes, chemical-resistant gloves, goggles and a dust mask. Avoid breathing or inhaling dust. If contaminated, wash your clothing and washout before you wash hands and before eating, drinking or smoking.

- **Monsanto will provide labels to downstream treating sites**.

- **The treating sites will complete the top portion with needed information**.

- **Attach label to mini bulk or hardside box. If seed is bulk, attach it to the delivery paperwork**.

- **The top portion of the tag is carbonless copy paper, and the front flap can be removed for your records**.

### ACCELERON® SOYBEAN SEED TREATMENT PRODUCTS GUIDE 2013

**WARNING**: KEEP OUT OF REACH OF CHILDREN. DO NOT USE FOR FOOD, FEED OR OIL PROCESSING PURPOSES. DO NOT REFUSE EMBARKed SEED. STORE AWAY FROM FEED AND OTHER TREATMENTS. TREATED SEEDS EXPOSED ON SOIL SURFACE MAY BE HAZARDOUS TO BIRDS, FISH AND OTHER WILDLIFE.

**ACCELERON®** is a registered trademark of Monsanto Technology LLC. Poncho®, VOTIVO® and Precise® are registered trademarks of Bayer. All other trademarks are the property of their respective owners. ©2012 Monsanto Company.
Acceleron® Seed Treatment Products for Soybean

Fungicides – All offerings of Acceleron® Seed Treatment Products for soybeans, will include three fungicides to provide broad protection of common seedling diseases while helping soybean farmers to maximize profitability on their soybean acres. When your customers ask for Acceleron® Seed Treatment Products on their soybeans, you will be providing them with a premium fungicide seed treatment offered exclusively through qualified Acceleron® treating sites.

Proprietary fungicide combination
Acceleron® DX-109 Fungicide Seed Treatment, Acceleron® DX-309 Fungicide Seed Treatment and Acceleron® DX-612 Fungicide Seed Treatment provides activity against Rhizoctonia, Fusarium, Pythium and early season Phytophthora.

Insecticide – If your customers desire a defense against early season insects, they can choose to include Acceleron® IX-409 Insecticide Seed Treatment for protection from bean leaf beetle, aphids and seed corn maggots.

<table>
<thead>
<tr>
<th>Acceleron® Seed Treatment Products</th>
<th>Active Ingredient</th>
<th>Use Rate (Fl.Oz./100lbs. Seed)</th>
<th>Use Rate (Fl.Oz./140K Seed Unit)</th>
<th>Density* (lbs./gal.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleron® DX-109 Fungicide Seed Treatment</td>
<td>Pyraclostrobin</td>
<td>0.40</td>
<td>0.20</td>
<td>9.10</td>
</tr>
<tr>
<td>Acceleron® DX-309 Fungicide Seed Treatment</td>
<td>Metalaxyl</td>
<td>0.80</td>
<td>0.40</td>
<td>9.12</td>
</tr>
<tr>
<td>Acceleron® DX-612 Fungicide Seed Treatment</td>
<td>Fluxapyroxad</td>
<td>0.24</td>
<td>0.12</td>
<td>9.46</td>
</tr>
<tr>
<td>Acceleron® IX-409 Insecticide Seed Treatment</td>
<td>Imidacloprid</td>
<td>2.00</td>
<td>1.00</td>
<td>10.27</td>
</tr>
<tr>
<td>Acceleron® Fungicide Seed Treatment Products with the custom blending service</td>
<td>Pyraclostrobin Metalaxyl Fluxapyroxad</td>
<td>2.24</td>
<td>1.12</td>
<td>9.31</td>
</tr>
<tr>
<td>Acceleron® Fungicide &amp; Insecticide Seed Treatment Products with the custom blending service</td>
<td>Pyraclostrobin Metalaxyl Fluxapyroxad Imidicloprid</td>
<td>4.24</td>
<td>2.12</td>
<td>9.77</td>
</tr>
</tbody>
</table>
All Acceleron® Seed Treatment Products for soybeans will be delivered to you in packaging that has been developed to be as convenient for applicators as possible. All product options and packaging will contain the red colorant necessary for compliance with seed laws.

<table>
<thead>
<tr>
<th>Insecticide &amp; Fungicides</th>
<th>Number of Seed Units* to Be Treated</th>
<th>Product Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallet Pak 80</td>
<td>1,600</td>
<td>1.5 &amp; 2.5 gal. containers</td>
</tr>
<tr>
<td>Acceleron® Seed Treatment Products plus custom blending service</td>
<td>850 / 1,700</td>
<td>15 &amp; 30 gal. drums</td>
</tr>
</tbody>
</table>

*Unit=140,000 seeds with a seed count of 2800 seeds per pound

<table>
<thead>
<tr>
<th>Insecticide &amp; Fungicides</th>
<th>Number of Seed Units* to Be Treated</th>
<th>Product Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pallet Pak 160</td>
<td>3,200</td>
<td>1.5 &amp; 2.5 gal. containers</td>
</tr>
<tr>
<td>Acceleron® Seed Treatment Products plus custom blending service</td>
<td>1,600/3,200</td>
<td>15 &amp; 30 gal. drums</td>
</tr>
</tbody>
</table>

*Unit=140,000 seeds with a seed count of 2800 seeds per pound

**Pallet Pak 80** (treats 80,000 lbs. of seed)

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Qty.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleron® DX-612 Fungicide Seed Treatment</td>
<td>1.5 gals.</td>
<td>1</td>
<td>1.5 gals.</td>
</tr>
<tr>
<td>Acceleron® DX-109 Fungicide Seed Treatment</td>
<td>2.5 gals.</td>
<td>1</td>
<td>2.5 gals.</td>
</tr>
<tr>
<td>Acceleron® DX-309 Fungicide Seed Treatment</td>
<td>2.5 gals.</td>
<td>2</td>
<td>5.0 gals.</td>
</tr>
<tr>
<td>Acceleron® IX-409 Insecticide Seed Treatment</td>
<td>2.5 gals.</td>
<td>5</td>
<td>12.5 gals.</td>
</tr>
<tr>
<td>Custom Color Red 1497</td>
<td>2.5 gals.</td>
<td>2</td>
<td>5.0 gals.</td>
</tr>
</tbody>
</table>

**Pallet Pak 160** (treats 160,000 lbs. of seed)

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Qty.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleron® DX-612 Fungicide Seed Treatment</td>
<td>1.5 gals.</td>
<td>2</td>
<td>3 gals.</td>
</tr>
<tr>
<td>Acceleron® DX-109 Fungicide Seed Treatment</td>
<td>2.5 gals.</td>
<td>2</td>
<td>5 gals.</td>
</tr>
<tr>
<td>Acceleron® DX-309 Fungicide Seed Treatment</td>
<td>2.5 gals.</td>
<td>4</td>
<td>10 gals.</td>
</tr>
<tr>
<td>Custom Color Red 1497</td>
<td>2.5 gals.</td>
<td>4</td>
<td>10 gals.</td>
</tr>
</tbody>
</table>
Acceleron® Seed Treatment Products with Custom Blending Service

When you place your seed treatment order, you have the option to request your Acceleron® seed treatment products to be blended prior to being shipped to you. All products will be blended at the labeled use rates.

### Fungicides and Insect Products

<table>
<thead>
<tr>
<th>Product to be blended</th>
<th>Amount to be blended in 15-gal. drum*</th>
<th>Application Rate of blended products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleron® DX-109 Fungicide Seed Treatment</td>
<td>1.33 gals.</td>
<td>4.24 fluid ounces per 100 pounds of seed or 2.12 fl.oz. per 140,000 seed count unit</td>
</tr>
<tr>
<td>Acceleron® DX-309 Fungicide Seed Treatment</td>
<td>2.66 gals.</td>
<td></td>
</tr>
<tr>
<td>Acceleron® DX-612 Fungicide Seed Treatment</td>
<td>0.80 gals.</td>
<td></td>
</tr>
<tr>
<td>Acceleron® IX-409 Insecticide Seed Treatment</td>
<td>6.64 gals.</td>
<td></td>
</tr>
<tr>
<td>Color Coat Red</td>
<td>2.65 gals.</td>
<td></td>
</tr>
</tbody>
</table>

*30-gallon drum will contain approximately twice the above amounts.

### Fungicides Only Products

<table>
<thead>
<tr>
<th>Product to be blended</th>
<th>Amount to be blended in 15-gal. drum*</th>
<th>Application Rate of blended products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleron® DX-109 Fungicide Seed Treatment</td>
<td>2.50 gals.</td>
<td>2.24 fluid ounces per 100 pounds of seed or 1.12 fl.oz. per 140,000 seed count unit</td>
</tr>
<tr>
<td>Acceleron® DX-309 Fungicide Seed Treatment</td>
<td>5.00 gals.</td>
<td></td>
</tr>
<tr>
<td>Acceleron® DX-612 Fungicide Seed Treatment</td>
<td>1.50 gals.</td>
<td></td>
</tr>
<tr>
<td>Color Coat Red</td>
<td>4.69 gals.</td>
<td></td>
</tr>
<tr>
<td>Color Coat Red</td>
<td>2.65 gals.</td>
<td></td>
</tr>
</tbody>
</table>

*30-gallon drum will contain approximately twice the above amounts.
Seed Treatment Best Management Practices

Inventory Management
End the season with as little inventory as possible. When it is necessary to carry over product, rotation of inventory should be managed to use products from the previous season first. When in-season, evaluate your short term and long term needs and schedule deliveries a few weeks or days ahead of need. First In, First Out is always the best policy.

Storage of Seed Treatment Products
How seed treatment products are stored will have an impact on how long the product may remain in a usable condition. Under poor storage conditions, the integrity of the formulation would be expected to fail sooner than if stored under ideal conditions.

A good, best practice storage recommendation would be to keep products where the temperatures will not drop below 40°F and not rise above 85°F. This will provide a reasonable margin to ensure products do not freeze in the winter or become excessively hot in the summer.

Mixing Prior to Use
Seed treatments need to be well mixed to ensure that the active ingredients are evenly dispersed within the container before they are measured into a mix tank. Jugs should be shaken well. Product in barrels or drums should be mixed by either mechanical means or by use of a circulation pump. Select a pump based on its ability to turn the entire contents of the container four to five times within a 30-minute time period. Initial mix time is 15-20 minutes and a daily mix of 2 minutes.

Mixing and Dilution
Products need to be diluted; they are not Ready-To-Apply products. Acceleron® Insecticide/Fungicide Seed Treatment Products have a combined use rate of 4.24 fluid ounces per 100 pounds of seed. Add 1.76 fluid ounces of water for a total application rate of 6 fluid ounces per 100 pounds of seed. Acceleron® Fungicide Seed Treatment Products have a combined use rate of 2.24 fluid ounces per 100 pounds of seed. Add 1.76 fluid ounces of water for a total application rate of 4 fluid ounces per 100 pounds of seed. If using liquid inoculants, you can drop out 1 fluid ounce of water per 100 pounds of seed for either treatment. Once seed treatments are diluted, mixing will be needed to keep the solid particles from settling out on the bottom of the mix tank. It is best to mix only what you think you will need for the immediate treating session. Dilution or mixing directly in the seed treatment shipping container is not recommended as most in-package mixers won’t provide adequate mixing abilities.

Inoculants
Liquid inoculants can be used as dilution materials for treating seeds. Most liquid inoculants are compatible with seed treatments. Inoculant companies perform compatibility tests with their products; confirm this with the manufacturer of the inoculant you choose. Inoculants can be used with Acceleron® Seed Treatment Products. Most sites use a separate inoculant kit for application (preferred method), and some mix the inoculant into the mix tank with other chemistries. If mixed directly with Acceleron® Seed Treatment Products in a mix tank, the entire mixture needs to be applied within 4 hours. This is true for all seed treatments, not just Acceleron® Seed Treatment Products.
Sticky Seed
If the dealer experiences “sticky seed” in the seed treater mixing drum or if they have excessive seed treatment buildup, they can try to reduce it by adding some soybean oil into their seed treatment mixture. Recommend 0.2-0.5 fluid ounce per 100 lbs. of seed; replace equal water volume.

Prep the Treater
Prior to the first treating of the day when the inside of the treater is dry, mist the inside of the treater drum and conveyor belt with water. A one gallon pump up garden sprayer works well for this purpose.

Cleanup
Acceleron® Seed Treatment Products have a red pigment included. Read the Acceleron® product labels for required Personal Protective Equipment, handling, safety and disposal practices. Minimal worker PPE is long sleeve shirt, long pants or coveralls, shoes and socks and chemical resistant waterproof gloves. If some of the seed treatment is dripped or spilled, wipe up with paper towels and use cleaners such as “Simple Green” to remove red coloration.

Seed Treater Setup
Run seed treaters at about 75% of rated capacity for best efficiency. Don’t exceed rated capacity of seed treater. Seed treaters have some tilt built into the design to allow seeds to flow toward the exit end of the seed treater. Some dealers like seed to move faster and lift the entry end of the seed treater and place a 2×4 under the feet. This allows for more tilt and faster seed movement.

Tenders and Trucks
Treated seeds can bridge when treated directly into hard side boxes and seed tenders. This is created when freshly treated seeds, still damp, come to rest and are allowed to dry while the seed is not moving. Once dry, the bridged seed can be disturbed, and the treated seeds will flow similarly to untreated seeds. The treater can experiment to find a workable solution for their site. Tips collected from actual treating sites are reducing the amount of water, adding soybean oil to the treatment, adding dry talc as the seeds discharge from the treater, and using a fan to blow dry air into the treater drum. Remind farmers that the freshly treated seeds must dry before they place them into a planter. Follow planter manual for the use of seed lubricants such as talc or graphite.

Feel free to call the Seed Treatment Operations Team with any questions about Acceleron® Seed Treatment Products at 1-877-775-8787.
Seed Treating Equipment

Monsanto has established standards for equipment used to treat soybeans with Acceleron® Seed Treatment Products. The intent of these standards is to ensure proper and accurate treating of seed leading to high satisfaction for farmer customers. Minimum standards for seed treating equipment must have chemical metering, chemical atomization and secondary coating of seed to comply with the Monsanto standards.

- Chemical metering – The seed treater must be equipped with a pump that can be accurately controlled. A variable speed pump will allow the operator to easily match the chemical flow to the seed flow.

- Chemical atomization – Atomizing the liquid chemicals during the application process will allow the relatively small amount of chemical to be evenly distributed on as much seed surface as possible, making the mechanical mixing step more efficient.

- Secondary coating – This is easily accomplished by gently rolling the freshly treated seeds in a coating chamber (or drum) for a few seconds prior to placing them in final packaging.

Recommended Equipment

Seed metering – Monsanto still considers seed metering an important part of accurate seed treatment dosage, and sites with seed metering will have an advantage of simplifying the calibration process, leading to accurate treating. The seed meter allows the operator to know the quantity of seed that is passing through the treater.

Application of seed treatment products labeled in milligram of active ingredient per seed, such as Poncho®/VOTiVO® will require the use of a seed wheel to meter the seeds.

If a treating facility has equipment that does not comply with the Monsanto standards, the facility is expected to upgrade or replace their equipment. If equipment will need to be upgraded, Monsanto recommends contacting the equipment manufacturer to consider upgrade options available for the specific model.

Treating Equipment Available from USC, LLC

To assist seed treating sites in purchasing new equipment or upgrading their equipment, Monsanto has an exclusive position on the MX2500 seed treater package that will be offered only to Monsanto qualified treating locations. Contact your preferred USC dealer to purchase an MX series treater. Monsanto will offer an Equipment Incentive Program for MX series treaters. Contact Monsanto Seed Treatment Operations Team to enroll.
Seed Treatment Operations

How Do I Become A Qualified Acceleron® Treating Site?

To become fully qualified before you order Acceleron® Seed Treatment Products, you will need to complete the following steps via www.MyMonsanto.com.

Ordering & Reporting › Seed Treatment › Qualification Checklist

- A simple online Treating Site Review.
- Submit a signed Seed Treatment Agreement.
- Optional for first time treaters – Computer Based Training module.
- Optional free of charge service – Submit three samples of treated seed for quality testing.

Note: Only the Administrators of the MyMonsanto account will have access to the Seed Treatment tab. The administrator may delegate access to sub-users under the Company Account tab.

REQUIRED

- Complete Treating Site Review – Simply review the statements and Soybean Seed Treatment Application Guidelines and click the checkbox upon agreement. Enter all requested information, and Primary Contact will be populated. Fill out Seed Treatment Contact, and, lastly, add the brands you will be treating at your location. Once complete, simply click Submit. Primary and Location Contact – Nearly all communications will be delivered electronically, so it is vitally important that you provide an active email address for this person.

- Complete Agreement – Once you have completed your treating site review, your Monsanto Seed Treatment Agreement will be sent to you electronically. The legal signer (person responsible for seed treatment at your location) will be responsible for signing the agreement and returning to the Seed Treatment Operations Team. Only one agreement needs to be signed for a multi-location entity.

OPTIONAL

- Take Recommended Training – Suggested for first time treaters, Computer Based Training modules are offered. Modules include: treater requirements, application guidelines, packaging, ordering, reporting, programs and marketing materials.

- Quality Management Testing – If you would like to take advantage of testing up to three treated samples of soybeans free of charge, simply click Request Soybean Sample Kit. Results will be available for viewing once samples are received and tested. This service ensures that your equipment is calibrated and your usage rates are correct.

Once your Seed Treatment Agreement is signed you may order product by calling 1-877-775-8787 or e-mailing operations.acceleron@monsanto.com
Acceleron® Seed Treatment Products Ordering & Reporting

A. Online Ordering Process

Just like other product ordering systems with Monsanto, you can now order your Acceleron® Seed Treatment Products for soybeans online via www.MyMonsanto.com and www.Corn-States.com. To begin online ordering:

1) Click on Ordering & Reporting
2) Click on Seed Treatment
3) Click on Online Ordering

4) You will be taken to your 2013 Seed Treatment Order. If your location has previously ordered seed treatment products for the 2013 season, you will see products populated in the table near the bottom. If your location has not placed any orders, the table will be empty.
To begin ordering product, simply select the following:
1) Crop
2) Treatment Type
3) Product
4) Required Delivery Date
   a) **Pallet Paks** – Date chosen must be at least today’s date plus one. Product will arrive approximately on the date chosen. Orders placed after 12:00 P.M. CST will be placed on the next business day
   b) **Custom Blend Service** – Date chosen must be at least today’s date plus seven. Product will arrive approximately on the date chosen. Orders placed after 2:00 P.M. CST will be placed on the next business day
5) Once you have selected the product you wish to order, simply click the **Add Quantity** button. You may continue to add additional products following the same steps
6) Once you are finished adding products and are ready to submit your order, click the **Submit Order** button

Once your order has been submitted, you will receive a confirmation message that your order has been successfully received. From here, you may navigate back to your seed treatment order, the seed treatment home page or other applications in the website.

**Items to Remember:**
- Once a product has been placed on a delivery, the unshipped quantity will move to the scheduled column. Once the product has left our manufacturing facility, the product will move to the shipped column.
- Product order quantities may be adjusted using the **Increase Unshipped** and **Decrease Unshipped** field boxes.
- Once the product is scheduled to ship or has been shipped, you may not make any adjustments to your product order quantities.
- Changes to your order will not occur until you click **Submit Order** or **Confirm Changes**.
- **View/Edit Mode** – **View** mode allows you only view your order; **Edit** mode allows you to make changes to your unshipped product order.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Acceleron® is a registered trademark of Monsanto Technology LLC. Poncho®, VOTiVO® and Precise® are registered trademarks of Bayer. All other trademarks are the property of their respective owners. ©2012 Monsanto Company.
Acceleron® Seed Treatment Products Ordering & Reporting

B. Reconciliation Reporting

To meet reconciliation reporting requirements for soybeans treated with Acceleron® Seed Treatment Products, locations must report units by Brand, Trait, Treatment Type and Number of 140k Units. To begin reporting:

- Log on to Mymonsanto.com or Corn-States.com
- Click on Ordering & Reporting › Seed Treatment › Reconciliation Reporting
- Select:
  1) Brand
  2) Trait
  3) Treatment Type
  4) # of 140k units
- Click the Add Row button if you need to report multiple brands
- If you wish to participate in the Soybean Inventory Management Program, click Yes and begin reporting remaining inventory in equivalent units. To calculate the equivalent units, utilize the PDF document link in the section. Reminder: Maximum volume of Acceleron® Seed Treatment Products for soybeans to defer is equivalent to 3,200 seed units. Maximum volume of Poncho®/VOTiVO® for soybeans to defer is equivalent to 633 seed units.
- Once you have entered all data, click the Save Only button
- At the end of the season and once you have reported all your Acceleron® Seed Treatment Product soybean units; click the Save & Submit button. Note: If you have clicked Save & Submit before you have completely reported for the season, contact Seed Treatment Operations.

If you have questions regarding Acceleron® Seed Treatment Products or would like help reporting your soybean units, please call us at 1-877-775-8787 or email us at operations.acceleron@monsanto.com.
Stewardship

Stewardship is a life-cycle approach to product management ensuring that everyone involved in the use of a product conducts their business in a manner that does not harm human health, and the environment, and ensures continued use of the product. This includes manufacturers, applicators and farmers.

- The seed treatment applicator can do their part by using correct application rates and by properly disposing of any waste materials. If using Poncho®/VOTiVO®, include Precise Soybean 1010 polymer provided along with the Poncho®/VOTiVO®.
- Farmers can use planting systems that do not create excessive seed treatment dust off and eliminate flowering weeds prior to planting.

Treated Seed Requirements and Best Management Practices

Acceleron® Seed Treatment Products Stewardship

Seed treatment products can maximize stand establishment and plant health to aid in the performance potential of crop. Below are some recommended best management practices regarding the handling and planting of treated seeds to reduce exposure and potential risks to people and the environment. Growers must follow all seed bag and tag label requirements.

Recommended Best Management Practices

- When opening seed bags or containers, avoid spilling treated seeds and spreading dust from the treated seeds.
- Follow planter manufacturer guidelines regarding the addition of talc or graphite to the seed.
- Communicate with known neighboring beekeepers about potential planting times or pesticide applications so they can move or confine their bees during those times.
- Avoid spreading dust when planting treated seed, particularly by cleaning planters and seed containers in areas that would be attractive to pollinators such as honey bees.
Early Season Pests

Pests that attack during the first 30 days after planting may impact early season vigor and stand establishment. These early pests can impact yield potential.

Bean leaf beetle

**Description**
- Adults are 1/4 inch in length.
- They vary in color from red, orange, yellow or tan.
- Beetles always have a black triangle at the base of the forewings, but the spots and stripes are variable.

**Damage**
- Early season injury occurs when adults feed on young soybean plants from emergence to development of first trifoliate (V1).

Soybean aphids

**Description**
- Wingless aphids are 1/16 inch in length, light green to pale yellow and have two dark cornicles (tail pipes) near the end of the abdomen.
- Winged aphids are 1/8 inch in length, and have a dark brown head. Cornicles are black.

**Damage**
- Damage occurs through direct feeding on plant tissue. Aphids remove plant sap, which causes leaves to discolor and wilt.
- Early season damage will occur only if beans are planted late and aphids arrive early. Aphids usually do not infest fields until mid- to late-June.
Seedcorn maggot

**Description**
- Larvae are 1/4 inch in length, legless and white to yellow in color.
- Only the first generation larvae are a problem on corn.
- The adult is a fly that resembles a house fly, but is smaller in size.

**Damage**
- Larvae feed on newly planted corn seeds either prior to germination or soon after germination. Feeding results in responses ranging from delayed development to plant death.

Wireworms

**Description**
- Larvae are 1/4 inch to 1-1/2 inches in length, depending on the species. Some species are hard-bodied and orange-brown, and other species are soft-bodied and white to orange. Some species have a distinct scalloped end segment.
- Larvae require 1-6 years to complete development and can be pests throughout the larval stage.
- Adults are called “click beetles.”

**Damage**
- Larvae may attack the seed, bore into the underground portion of seedlings or attack the root system of larger plants. Larvae may also bore into the base of the plant.
Early Season Pests

Pythium

*Description*
Seed decay, damping off or seedling blight, root rot caused by *Pythium spp.*

*Symptoms*
- Seeds appear rotted and infected seedling are rotten.
- Older seedlings yellow and stunted.

*Conditions*
- Cool, wet soils prior and post planting
- Usually occurs in low and wet spots in field.

Phytophthora

*Description*
Seed decay, damping off or seedling blight, root and stem rot caused by *Phytophthora sojae*.

*Symptoms*
- With early infection, seeds appear rotted; infected seedlings rotted and easily pulled from soil.
- With later infection, roots rotted and lower stems have brown lesions that develop from the soil line.

*Conditions*
- Occurs in wet, waterlogged soils and compacted or heavy soils, especially after planting.
- Periods of wet weather followed by dry, warm weather are optimal for disease.
Rhizoctonia

Description
Caused by *Rhizoctonia solani*, damping off or seedling blight, and root and stem rot.

Symptoms
- With early infection, infected seedlings rotted and easily pulled from soil.
- With later infection, infected seedlings have reddish brown lesions on the stem at or just below the soil line.

Conditions
- Usually occurs with cool, wet weather followed by hot, dry conditions.
Contact the Acceleron® Team

Contact us if you have questions or need help with Acceleron® Seed Treatment Products

Seed Treatment Operations Team toll free at 877-775-8787 or email at operations.acceleron@monsanto.com

Seed Treatment Operations Team Members
Tracy Bergjans, 314-694-5215
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There are other documents you may find helpful this season. You can download them through www.MyMonsanto.com or www.Corn-States.com › Ordering & Reporting › Seed Treatment › Resource Center.

Documents Posted:
• Acceleron® Programs
  • 2013 Acceleron® Seed Treatment Products Early Order and Delivery Promotion
  • 2013 Acceleron® Seed Treatment Products and Poncho®/VOTiVO® Inventory Management Program
  • 2013 Acceleron® Seed Treatment Products Dealer Treater Bonus
  • Acceleron® Seed Treatment Equipment Incentive for 2013
• Price sheets for all Acceleron® Seed Treatment Products for Soybean
• Acceleron® Seed Treatment Products Calculator spreadsheet
• Seed Treatment Application Guidelines for Acceleron® Seed Treatment Products for Soybeans