



syngenta®

 **CruiserMaxx®**  
Beans

 **Vibrance™**

## The Market-leading Seed Treatment Just Got Better

Introducing Vibrance fungicide seed  
treatment to the soybean market



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# Protecting High-value Seed to Deliver Higher Returns

Growers are always on the lookout for ways to protect and defend their soybeans from yield-limiting factors that can put a dent in profit potential. Fortunately for growers, Syngenta offers the market-leading insecticide and fungicide seed treatment solution: CruiserMaxx® Beans insecticide/fungicide, a combination of separately registered products.

## Start the Season Strong with CruiserMaxx Beans Applied with Vibrance

Making it our mission to enable growers to Start Strong, Grow Strong and Yield Strong, we have supercharged the market-leading seed treatment. CruiserMaxx Beans is now applied with Vibrance™ fungicide seed treatment.

Vibrance provides extended protection against seedborne and soilborne pathogens. The active ingredient in Vibrance, sedaxane, offers a novel mode of action, tailor-made for seed treatments. Vibrance offers improved root health and vigor, and this additional level of protection helps growers to Grow More Soybeans.

## Digging Deep with RootingPower

Through the unique and distinctive RootingPower capabilities of Vibrance, CruiserMaxx Beans applied with Vibrance provides the foundation for healthier, more robust root systems. It also delivers enhanced disease protection with best-in-class *Rhizoctonia* activity and expands a grower's arsenal in the fight against pathogens and insects that damage soybean establishment. With increased soil mobility, long-lasting performance and superior disease protection, the result will be higher-yielding soybeans at harvest.

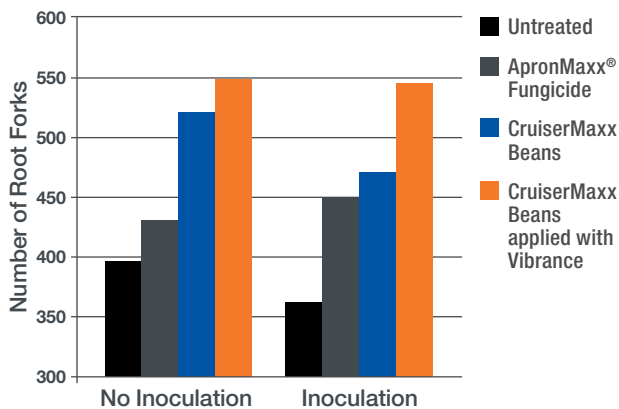
### Advantages of Root Health

- Promotes healthy, robust roots for more efficient water and nutrient uptake
- Provides superior disease protection against soilborne and seedborne pathogens
- Creates stronger stems and foliage to better withstand environmental stress
- Improves soybean yield potential for increased profits

## Advantages of CruiserMaxx Beans Applied with Vibrance

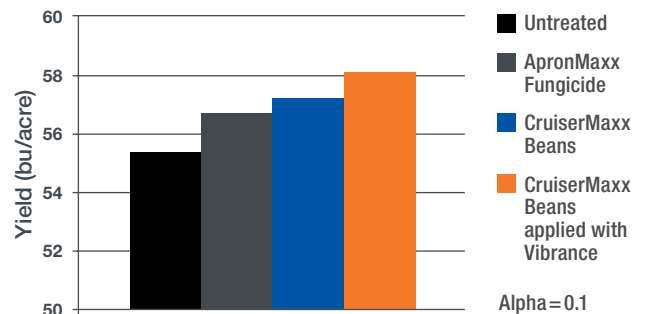
- Serves as the first tailor-made seed treatment for improved RootingPower combined with the already proven performance of CruiserMaxx Beans on more than 65 million acres
- Offers growers more robust and vigorous plants via the Cruiser Vigor Effect
- Promotes better emergence, faster speed to canopy, stress tolerance, nutrient uptake, improved vigor and higher yield potential
- Protects against damaging, chewing and sucking insect pests, such as leafhopper, early-season soybean aphid and bean leaf beetle
- Provides effective protection against major fungal diseases, such as *Rhizoctonia*, early-season *Phytophthora*, *Pythium* and *Fusarium*

### Root Forks Averaged Across Seven Soybean Varieties during Field Trials



### Soybean Yield Results

Broad Geography across 16 Locations



## Stronger Stands, Better Vigor, Quicker Canopy and Higher Yield Potential

CruiserMaxx Beans applied with Vibrance protects soybeans against a broad spectrum of harmful seed- and foliar-feeding insects, and all major seedborne and soilborne fungal disease pathogens.

Along with providing superior pest protection, CruiserMaxx Beans applied with Vibrance has the ability to improve plant stands, vigor and growth, helping set the stage for increased yield and crop profit potential. The Cruiser Vigor Effect is scientifically proven to offer growers more robust and vigorous plants even in the absence of insects. These considerations can lead to more advanced crop development and superior performance. It positively impacts plant proteins that resist early-season stressors, which leads to a healthier plant. Additionally there is an increase in speed-to-canopy which may help improve weed control. The overall result is bigger, more developed plants, which can lead to higher yield and increased profit at harvest.

## Early-season Pest Protection

Experienced soybean growers understand that early-season insects and diseases can stand in the way of achieving the highest yield possible. Professionally applied by seed companies or certified retailers/dealers, CruiserMaxx Beans applied with Vibrance offers soybean growers a superior choice in insect and disease protection from day one.

## Effective Insect Protection



- Thrips
- Threecornered alfalfa hopper
- Grape colaspis
- Leafhopper
- White grub
- Soybean aphid
- Bean leaf beetle
- Seedcorn maggot
- Wireworm

## Effective Disease Protection



Photo courtesy of The Ohio State University Extension

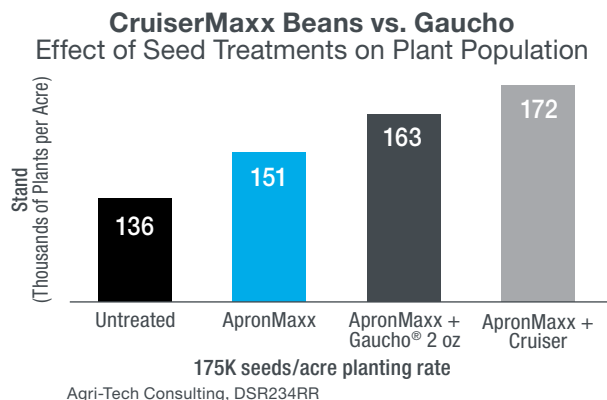
- Early-season *Phytophthora*
- *Pythium*
- *Rhizoctonia*
- *Fusarium*
- Seedborne *Sclerotinia* (White Mold)
- Seedborne *Phomopsis*
- General seed rots
- Seed decay, seedling blight and damping-off caused by *Rhizoctonia solani*



The fungicide component of CruiserMaxx Beans, market-leading ApronMaxx brand seed treatment, contributes to the assurance of a successful soybean crop by providing effective protection against early-season soybean seedling and seedborne diseases such as *Pythium*, early-season *Phytophthora*, *Rhizoctonia*, *Fusarium* and general seed rots.

ApronMaxx provides outstanding disease protection in rhizobia-friendly formulations that do not harm beneficial nitrogen-fixing bacteria when applied in combination with many inoculants. Nitrogen is an essential nutrient to any developing plant, and by being harmless to the beneficial rhizobia on the seed, ApronMaxx helps soybean seedlings reach their full potential, which can ultimately boost yields and potentially increase profits.

For fields that require an increased level of *Pythium* and *Phytophthora* protection, an additional spike of Apron XL® fungicide may be added to the standard rate of mefenoxam in CruiserMaxx Beans. Additionally, retailers can choose to apply CruiserMaxx Advanced, which offers all the benefits of CruiserMaxx, plus a higher rate of mefenoxam (Apron XL) in one easy-to-use formulation and features an additional technology that delivers improved application characteristics with less sticking and bridging of wet seed.



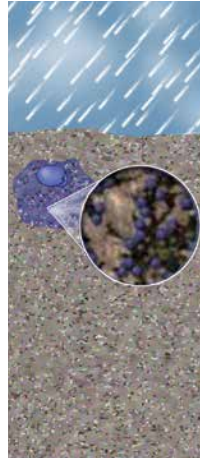
Cruiser® seed treatment insecticide, the insecticide component in CruiserMaxx Beans, helps soybean growers maximize yield potential by providing broad-spectrum protection against yield-threatening seed- and foliar-feeding insects, including soybean aphid, bean leaf beetle and seedcorn maggot. In addition to preventing direct physical damage by harmful insects to the crop, keeping pest populations under control may also protect soybeans from viruses that insects are likely to transmit. Bean pod mottle virus, which is spread by the feeding of the bean leaf beetle, has become a common threat to soybean yields in many areas.

Thiamethoxam, the active ingredient in Cruiser, is rapidly translocated throughout the plant, providing complete protection, and is active through both contact and ingestion. Insects that come in contact with seed or plants treated with Cruiser show some unique behavioral responses after exposure. Feeding is irreversibly stopped; sucking insects withdraw their stylets, stretch their legs and move their antennae forward. Therefore, insect damage stops shortly after treatment. Death of the insect may occur within a few hours for some species, or require as long as 48 hours for others.

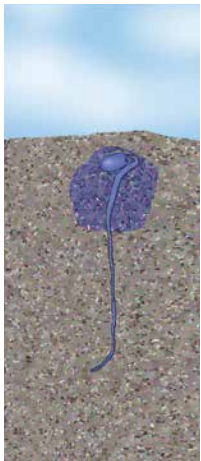




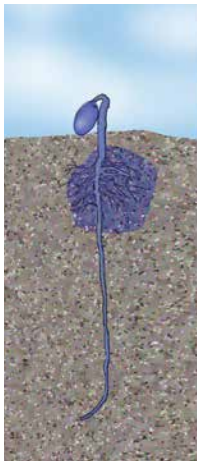
**Cruiser is delivered on the seed as a seed treatment.**



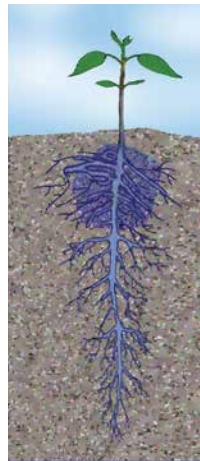
**Cruiser has the right water solubility so it works even in dry weather.**



**Once off the seed, Cruiser binds to soil to keep it in the root zone.**



**As Cruiser is absorbed by the roots it moves systemically throughout the growing plant.**



**Cruiser provides continuous protection so pests do not get a chance to damage young plants.**

## CruiserMaxx Beans Applied with Vibrance + Endigo ZC: A Smart Choice in Pest Management

Soybean growers know that producing a successful crop requires an effective integrated pest management program (IPM). With the insecticide component of Cruiser, CruiserMaxx Beans applied with Vibrance fits well into an IPM program. With an emphasis on lower rates while preserving biological control mechanisms, CruiserMaxx Beans applied with Vibrance allows a wider window for scouting and spraying.

If insect populations reach economic thresholds, Syngenta recommends applying Endigo® ZC insecticide as part of an IPM program. With three industry-leading technologies, Endigo ZC offers fast knockdown and extended residual control of economically damaging soybean insects. These considerations in an IPM program will stop harmful insect populations in their tracks and make higher soybean yields obtainable.

### **Endigo ZC is a Restricted Use Pesticide.**

## Reducing Insecticide Resistance Potential

Development of insecticide resistance will render an insecticide useless; this leads to reduced yields and loss of profit. A product featuring multiple modes of action, such as Endigo ZC (thiamethoxam + lambda-cyhalothrin) is proven to fight against the development of insecticide resistance. For rapidly reproducing pests, such as soybean aphid and bean leaf beetle, the development of insecticide resistance may occur seemingly overnight. A critical management strategy in these cases requires an integrated control program such as CruiserMaxx Beans applied with Vibrance followed by an application of Endigo ZC, if pest threshold is met.



## CruiserMaxx Beans Applied with Vibrance and Syngenta: Trusted Names, Superior Results

With proven performance across 65 million acres, CruiserMaxx Beans provides soybean growers with advanced insect and disease protection. Applying it to the seed with Vibrance offers an additional fungicide for increased RootingPower. Growers planting soybeans treated with CruiserMaxx Beans applied with Vibrance can rest assured knowing they also are getting the support and expertise of Syngenta. Syngenta seed treatments are backed by years of research, skilled scientists, research centers and knowledgeable sales representatives, providing an even greater value above and beyond just products that work.

For all of the latest soybean news from Syngenta, visit <http://Soybeans.FarmAssist.com>, the one-stop location for everything soybeans. And don't forget to register for the Soybean Insider to be delivered directly to your email at [www.FarmAssist.com/SoyInsider](http://www.FarmAssist.com/SoyInsider). Follow Syngenta on Twitter (@SyngentaUS) or Facebook (Facebook.com/FarmAssist).



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