Break through the Yield Barrier

with Superior Soybean Insect and Disease Protection
Better Plant Stands, Better Plant Vigor, Quicker Canopy and Higher Yields

A CruiserMaxx™ Beans brand product is an insecticide and fungicide seed treatment combination that protects soybeans against a broad spectrum of harmful seed and foliar-feeding insects and all major seed- and soil-borne fungal disease pathogens, increasing the yield potential and crop profitability.

CruiserMaxx Beans has shown the ability to improve plant stands, vigor and growth, helping set the stage for higher yields. This patented vigor effect can lead to more advanced crop development and superior performance. By promoting quicker canopy closure, CruiserMaxx Beans may improve weed control and the grower’s bottom line.

Experienced soybean growers understand that troublesome insects and diseases can stand in the way of achieving the highest yield possible. CruiserMaxx Beans seed treatment offers soybean growers a superior choice in insect and disease protection that helps maximize yield potential.
Advantages of CruiserMaxx Beans:

- Increases plant stands, uniformity and vigor, promotes earlier canopy closure and improves yield.
- Patented vigor effect (U.S. Patent number 6,753,296).
- Helps optimize seeding rates by protecting every seed to ensure plant establishment.
- Excellent activity against a broad spectrum of soil-dwelling and foliar-feeding insect pests.
- Superior protection against soybean aphids versus other seed treatments.
- Increased operational efficiency by allowing a wider window to scout and monitor insects such as soybean aphid.
- Protects against early-season insect damage and often reduces insect populations later in the season.
- Protects against target pests with reduced risk to beneficial insects.
- Has shown the ability to increase yield even under low insect pressure.
- Provides the widest spectrum of disease protection for soybeans.
- May reduce virus incidence and transmission.
- Effective at low use rates.
- Convenient, starts protecting plants even before the seed germinates.
- Can be used with rhizobia inoculants.
- Excellent crop, worker and environmental profile.

Effective Insect Protection:

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

Advanced Disease Protection:

- Pythium
- Early-season Phytophthora
- Rhizoctonia
- Fusarium
- Seed-borne Sclerotinia (white mold)
- Seed-borne Phomopsis
- General seed rots
Cruiser® seed treatment insecticide 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 already 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.
CruiserMaxx Beans and Warrior: A Smart Choice in Integrated Pest Management Programs

Soybean growers know that an effective integrated pest management program (IPM) is vital to producing a successful crop. CruiserMaxx Beans fits well into an IPM program, with an emphasis on lower rates, preserving biological control mechanisms and allowing a wider window for scouting and spraying. As part of an IPM program, Syngenta recommends applying Warrior® insecticide with Zeon Technology™ immediately after insect populations reach economic thresholds (refer to your local state agronomy guide for insect thresholds). Warrior provides fast knockdown of a broad spectrum of yield-robbing pests and long residual protection against rapidly multiplying soybean aphid populations and later generations of bean leaf beetle. According to field test results, CruiserMaxx Beans seed treatment plus a follow-up treatment of foliar-applied Warrior can return higher yields than other treatment options. Now Warrior with Zeon Technology is more convenient to use than ever, with a new label that lowers the pre-harvest interval (PHI) to just 30 days.

Reducing Insecticide Resistance

Development of insecticide resistance in a field can lead to reduced yields and loss of profit. Using CruiserMaxx Beans and Warrior together in an integrated control program can reduce the potential for this to occur. Rotation between different chemical classes, Cruiser (neonicotinoid) and Warrior (pyrethroid), with different modes of action and unique sites of action is a proven technique for reducing the probability of developing insecticide resistance and a critical management strategy for rapidly reproducing pests like soybean aphid and bean leaf beetle.

ApronMaxx® brand seed treatments contribute to the assurance of a successful crop by providing effective protection against early-season soybean seedling and seed-borne diseases such as *Pythium*, early-season *Phytophthora, Rhizoctonia, Fusarium*, seed-borne *Phomopsis, Aspergillus, Penicillium*, seed-borne *Sclerotinia* and general seed rots.

ApronMaxx and Cruiser provide outstanding disease and insect 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 and Cruiser help soybean seedlings reach their full potential, which can ultimately boost yields and increase profits.
**Soybean Aphid Life Cycle**

In the spring, wingless, female soybean aphids hatch on buckthorn and other host plants and begin rapid asexual reproduction. Subsequent generations are born within days, producing winged aphids capable of rapid migration to young soybean plants preferred for feeding. Though soybean aphids do not leave visible feeding scars, they cause yield damage, reduce seed quality and have been shown to transmit the soybean, alfalfa and cucumber mosaic viruses.

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**CruiserMaxx Beans Helps Growers Harvest Higher Yields**

“The treated soybeans emerged quickly and the plant health was very good. At harvest, the treated soybeans gave us an eight bushel-per-acre yield advantage over the untreated soybeans. Since this product gives us a new way to protect our soybeans, we can have a heavier soybean rotation next year.”

Jeff Jackson, Byron, IL

“The soybeans I saw treated with it this year were noticeably different than soybeans planted with untreated seed. The soybeans treated with it had better stands, less bean leaf beetle infestation and less yellow coloring than the untreated plants.”

Tim Sumerfelt, Ghent, MN

“In 2003 our fields were devastated by aphids, so this year we decided to try it. The soybeans planted with this product withstood aphid pressure about two weeks longer than the untreated soybeans and one of the fields did not have to be sprayed at all. I like that it bought us some time with the aphids. A lot of fields just south of here had to be sprayed twice.”

Marty Barr, LaPorte, IN

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**Drawings from Minks and Harrewijn 1987; Higley & Boethal 1994**
**CruiserMaxx Beans vs. Gaucho**  
**Plant Stand, Early Planting Date Study**

**Protection Against Seedcorn Maggot**

**Soybean Aphid – Planting Date Study, 2005 Early Planting**

**Bean Leaf Beetle Yield**  
**Ames, Iowa**

*Agri-Tech Consulting, No-till, 18S planting rate, 15-inch rows*  
*LSD 5.18*
**CruiserMaxx Beans Vigor – 2004**

*UP TO 6 DAYS FASTER CANOPY CLOSURE*

![Bar chart for CruiserMaxx Beans Vigor – 2004]

**CruiserMaxx Beans + Warrior for Aphids – 2005**

![Bar chart for CruiserMaxx Beans + Warrior for Aphids – 2005]

*Michigan State University, 2005*
For more information, visit the Syngenta Crop Protection website: www.sygentacropprotection.com or www.farmassist.com, or call the Syngenta Customer Resource Center at 1-866-SYNGENTA (866-796-4368).

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CRUISER technology is protected by U.S. Patent number 6,753,296, and other patents and pending applications in the US and other countries.

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