



**Avicta[®] Complete
Corn**

syngenta[®]



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Triple Protection Against Nematodes, Insects and Diseases

With continued advances in seed genetics and traits, corn growers have plenty of reason to protect their corn seed investment. Higher agronomic performance and better yields are the outcome of these new technologies, but at the same time, these advancements have increased the seed value in recent years. The best bet growers have to maximize the profit potential of their high-performing seed is to protect it with a seed treatment before planting to help guard against damage from early-season pests that can otherwise inhibit emergence, plant stand, plant health and ultimately yield potential.

Avicta® Complete Corn, a nematicide/insecticide/fungicide seed treatment combination of separately registered products, offers corn growers the ability to do just that. A convenient seed-delivered technology, Avicta Complete Corn effectively delivers triple protection against early-season pests – nematodes, insects and diseases. Its immediate action protects yield from day one and provides consistent, reliable protection when the plant is most vulnerable. There are currently few corn nematode control options on the market, none of which offer the convenience of a seed treatment and the complete protection of Avicta Complete Corn.





Advantages of Avicta Complete Corn

- Protects corn from the instant the seed is planted against a wide spectrum of corn-damaging nematode species
- Delivers proven protection against a broad range of insect pests and damaging early-season disease pathogens
- Offers interaction of a nematicide, an insecticide and fungicides, for superior early-season pest protection, as well as optimal yield and profit potential
- Promotes vigorous and healthy corn seedlings from the day seeds are planted
- Helps increase stand, uniformity and vigor under varying environmental conditions
- Scientifically proven to consistently protect your seed investment and the value of the traits and genetics by shielding the plant during the time when yield potential is set and the plant is most vulnerable
- Conveniently delivered on the seed, just plant and the crop is protected



Corn Parasitic Nematode Populations More Prevalent Than You May Think



Nematodes are microscopic, thread-like roundworms that can cause significant damage to vulnerable crops by feeding in or on plant roots. Nematode damage also provides an entry point for other plant pathogens, such as bacteria and fungi, to invade the root and further weaken the plant.

Corn-damaging nematodes occur in every soil type, not just sandy soils, and there is no rescue treatment to offset the impact of the damage they can cause. Changing production practices such as the increase in corn-on-corn production and conservation tillage are helping fuel the increase in corn plant parasitic nematode populations.

In the past, soil-applied organophosphate and carbamate in-furrow insecticides have provided some suppression of nematodes, minimizing populations to the point that damage went unnoticed when these materials were used for insect protection. However, the switch to pyrethroid insecticides and the introduction of CRW-traited corn has left the door open for nematodes to prosper.

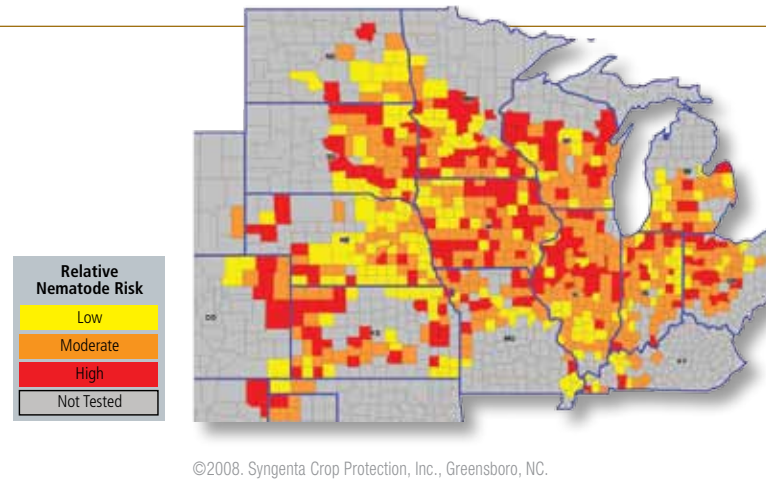
In 2007, Syngenta Seedcare initiated a survey of corn nematode populations in the Midwest. Surveyors randomly selected three corn fields in each county of the Midwestern Corn Belt that plants at least 25,000 acres of corn. Five university labs and one private lab processed the samples and determined that corn plant parasitic nematodes could be found in every county sampled. The outcome of the survey is a visual representation of the widespread risk to corn production that nematodes can create.





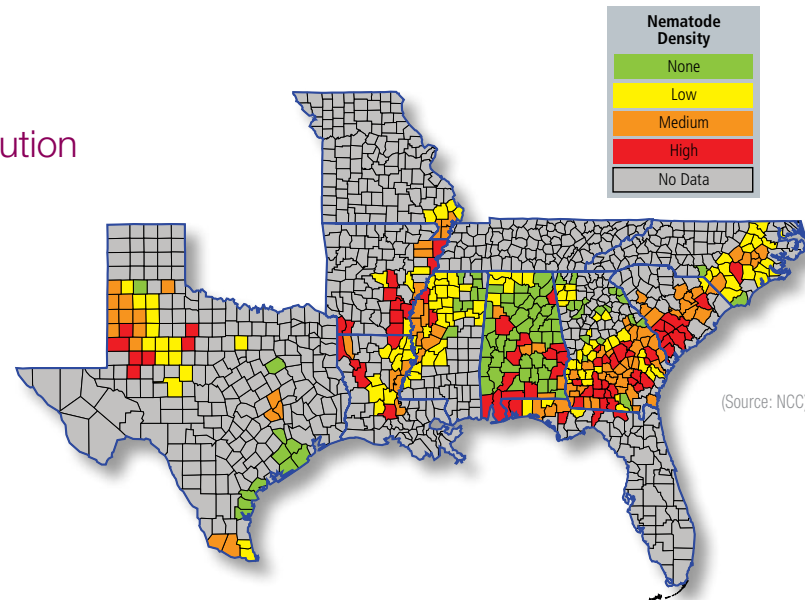
Average Corn Nematode Risk in the U.S. (MIDWEST)

With the data collected from the Midwest survey, Syngenta Seedcare developed a map that categorizes the potential corn injury risk via colors that represent a weighted index of nematodes present based on species numbers and relative thresholds for each species.

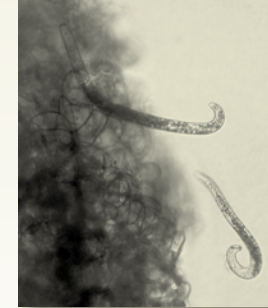


Root-Knot Nematode Distribution in the U.S. (SOUTH)

The potential for nematode damage also has been well documented in the South. Most of the nematodes present in Southern cotton fields, including two of the most damaging nematodes in cotton production, the root-knot nematode and lance nematode, also are threats to corn acreage planted in the South.



Immediate Protection Against Nematodes



Damage caused by corn nematodes can be easily underestimated as it is often misdiagnosed and difficult to identify. Symptoms such as chlorosis, stunting, root damage, root galling and yield loss can be mistaken for herbicide injury, disease, micronutrient deficiencies or the result of harsh environmental conditions such as drought. Oftentimes there are no visual symptoms, but yield and profit potential are impacted.

An Avicta brand seed treatment, the nematicide component of Avicta Complete Corn, provides effective nematode protection from the time the seed is planted, promoting stronger stands and emergence. Although Avicta brand nematicide is not systemic, it has the ability to adhere to particles in the root zone, allowing it to move with the root system as the plant grows. This movement reduces the initial nematode population during the critical early growth stages by killing nematodes through contact activity. As any corn grower knows, strong, healthy plants build the foundation for better yield and return on investment potential. Hundreds of trials over the last six years provide confidence that Avicta seed treatment nematicide will change the face of managing yield loss in corn. With Avicta Complete Corn, growers can rest assured their crop is protected from a wide spectrum of damaging nematode species.

Avicta Complete Corn protects against damaging nematode species including:

- Root-knot
- Stunt
- Sting
- Lance
- Stubby-root
- Lesion
- Dagger
- Needle
- Ring
- Spiral





Superior Protection Against Early-Season Insects

The insecticide component in Avicta Complete Corn is Cruiser®, a systemic seed treatment insecticide, which offers better activity and longer residual for more consistent early-season protection against a broad spectrum of troublesome insect pests, including:

- Wireworm
- Chinch bug
- Seedcorn maggot
- Southern corn leaf beetle
- Corn flea beetle
- White grub*
- Black cutworm
- Thrips
- Grape colaspis
- Southern green stinkbug
- Seedcorn beetle
- Corn leaf aphid
- Sugarcane beetle
- Billbug**
- Corn rootworm**



Healthy corn root system



Nematode-damaged corn root system

* Including Japanese beetle larvae, European Chafer larvae, true white grub, annual white grub and May/June beetle larvae.
**Requires the higher application rate of Cruiser (1.25 mg ai/seed). Corn rootworm protection includes Mexican, Northern, Southern and Western varieties.



Top-Quality Disease Protection

Avicta Complete Corn is available with either the proven disease protection of Maxim® XL, Apron XL®, and Dynasty®, the current standard in fungicide seed treatments, or the newest and most robust seed treatment fungicide on the market- Maxim Quattro. Maxim Quattro combines the market-leading active ingredients mefenoxam (Apron XL), fludioxonil (Maxim XL) and azoxystrobin (Dynasty) with thiabendazole, an active ingredient never before registered for seed treatment that offers best-in-class protection against *Fusarium*, including *Fusarium verticillioides*. Avicta Complete Corn protects against the following seed- and soil-borne disease pathogens to help shield the plant against reduced emergence which can cause slow growth and damping off of the seedlings, reduced stand, vigor and ultimately yield.

Seed-Borne

- *Fusarium*
- *Cladosporium*
- *Helminthosporium*
- *Diplodia (Stenocarpella)*
- *Aspergillus*
- *Penicillium*
- *Sporisorium (Sphacelotheca)*

Soil-Borne

- *Rhizoctonia*
- *Pythium*
- *Fusarium*
 - *Fusarium graminearum*
 - *Fusarium verticillioides***



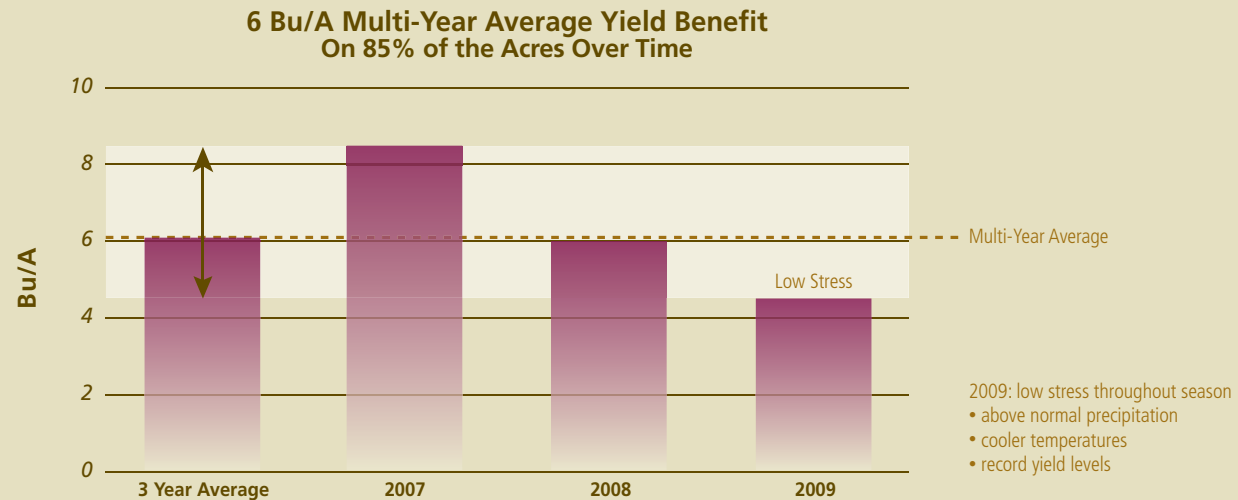
**Protection against *Fusarium verticillioides* occurs only with the use of Maxim Quattro.



Consistent Results for Higher Yield

Avicta Complete Corn provides immediate protection against nematodes, insects and diseases. This is evident through field trials that have resulted in strong, higher-yielding corn plants.

Over the past three years, Syngenta Seedcare has tested the yield benefits of Avicta Complete Corn. Results show that even in varying conditions, growers can expect a 6 bushel-per-acre average yield increase above the industry standard, Cruiser Extreme® 250 insecticide/fungicide seed treatment, on 85 percent of the corn acres over time, resulting in a minimum 3-to-1 return on investment.



Avicta Complete Corn 2009/2010 Testimonials

“With Avicta Complete Corn, I saw healthier plants, better stand and better yield. I saw an 8.5 bushel difference. And today with \$5 corn, that adds up. Any time there’s a treatment that goes on the seed that makes for a better crop and better yield, customers want that. Anything that makes the crop better, they want. Avicta Complete Corn is definitely one of those things.”

Dave Steinbeck • Griswold, Iowa

“I planted Avicta Complete Corn and Cruiser Extreme 250 at different maturities in two different side-by-sides. In one side-by-side, we saw an 8 bushel-per-acre yield increase with Avicta Complete Corn, and an 11 bushel-per-acre yield increase in the other. When I pulled the roots and ears from these plants, you could see visual differences. The roots on the corn treated with Avicta Complete Corn looked a lot healthier and cleaner. The biggest benefit of Avicta Complete Corn was the improved root system, which in turn led to healthier ears on the corn and higher yield. The general plant health of the plants treated with Avicta Complete Corn was easy to see with the naked eye. I think it’s a quality seed treatment and I’d recommend it on every hybrid.”

Pat Uckert • Brookings, South Dakota