



syngenta®

Targeted Protection Against the Threats that Matter Most

Avicta® Bion® Cotton seed treatment, an on-seed application of separately registered products, is an economical way to defend your cotton crop with targeted protection from the yield-robbing factors that matter most. Designed specifically for the needs of West Texas growers, Avicta Bion Cotton offers best-in-class protection from nematodes and Western flower thrips and brings proven efficacy against black root rot. Use Avicta Bion Cotton to help safeguard your cotton investment where it counts.

Features and Benefits

- University-recommended protection against black root rot (*Thielaviopsis basicola*)
- A step change in protection against black root rot
- Provides early-season disease protection against *Rhizoctonia* and *Fusarium*
- Reduces the reproduction of root knot nematodes
- Offers multiple modes of action for superior insect and nematode control
- Protects cotton from all important nematode species
- Broad-spectrum protection against insect pests, including Western flower thrips and aphids

Disease Protection

- Black root rot
- *Fusarium* wilt
- Fungi that cause pre- and post-emergent damping-off

Insect Protection

- Cotton aphids
- Cotton fleahoppers (suppression)
- Tobacco thrips
- Western flower thrips

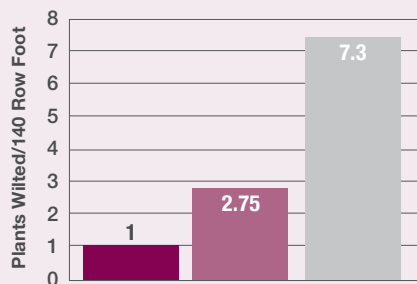
Nematode Protection

- Root knot nematode
- Lance nematode
- Reniform nematode



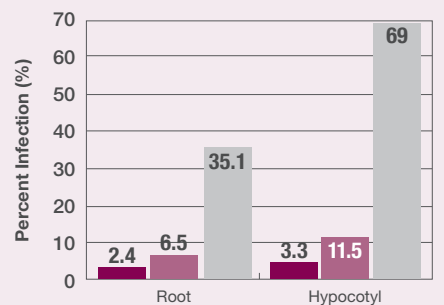
Avicta Bion Cotton takes early-season seed protection to a new level. Avicta Bion Cotton-treated seed gives growers a head start in their battle against many pests, including Western flower thrips, black root rot, *Fusarium* wilt and nematodes. Growers can expect higher yield potential and greater return on investment potential.

Fusarium Wilt Control (110 DAP)



All treated with Cruiser® at 0.34 mg a.i./seed
TX – USSC070012009 – Unwiler
West Texas – 2009
DAP= days after planting

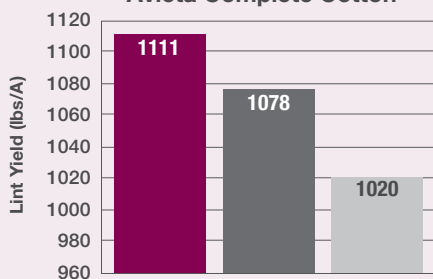
Black Root Rot Control



■ Avicta Complete Cotton Plus Bion
■ Avicta Complete Cotton ■ Untreated Control

Dr. Harun Toksoz and Dr. Craig Rothrock - data from
Dr. Toksoz Ph.D. thesis - University of Arkansas

Yield Protection with Avicta Complete Cotton



■ Avicta Complete Cotton
■ Aeris + Trilex Advanced ■ Check

Five years of evaluations – 14 trials and 44 replicated direct comparisons; Texas

- Research shows Gaucho® insecticide and thiodicarb are not very effective on Western flower thrips
- Cruiser® 5FS seed treatment insecticide provided the best protection against Western flower thrips compared to Gaucho in Syngenta and third party trials
- Based on historical Syngenta trials, Avicta Complete Cotton (abamectin) is 470 times more active on root knot nematode than Aeris® insecticide (thiodicarb)
- Bion® plant activator induces host plant resistance which reduced the incidence of black root rot-related root necrosis by 42 percent in a Texas trial



Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations.

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