



Proven corn seed treatments designed to deliver protection

The team at Corteva Agriscience has been hard at work developing exciting new corn seed treatment offers for the 2022 season. David Borgmeier, Corteva Agriscience U.S. category leader for Seed Applied Technology, and Ron Sabatka, Corteva Agriscience technical marketing manager for Seed Applied Technology, gave us a sneak peek at what this new protection package will include.

INSECTICIDE OVERVIEW – THREE RATES TO CHOOSE FROM

The proven corn seed treatment will include Lumisure™ insecticide seed treatment to stop early-season chewing and piercing insects. The insecticide will be available at three rates: 250, 500 and 1250 to suit different on-farm needs.

Lumisure™

INSECTICIDE SEED TREATMENT

"Lumisure, which is clothianidin, is the broadest-used insecticide in corn," Borgmeier explained. "Farmers will get broad protection at either the 500 or 1250 rates, and Lumisure helps with healthy, uniform emergence."

Lumisure™ insecticide seed treatment

Insects controlled: 500 rate

- Chinchbug
- Corn flea beetle
- Corn leaf aphid
- Southern corn leaf beetle
- Grape colapsis
- Sugarcane beetle
- Seed corn maggot
- Southern green stinkbug
- Cutworm
- White grub
- Wireworm
- Thrips

Insects controlled: 1250 rate

- All of the above, plus: southern corn rootworm
- Suppression of other corn rootworm species

NEMATICIDE OVERVIEW – YIELD BENEFITS IN LOW- AND HIGH-PRESSURE FIELDS

Nematodes can be found in any corn field, and practices like reduced tillage and corn-on-corn planting can create conditions favorable to some of the 50 species of nematodes that feed on corn. Because they are parasites and don't kill their host plants, nematodes can be hard to detect and their damage can mimic other plant stressors. If not managed, nematodes can multiply quickly, silently robbing corn of its yield.

Lumialza™

NEMATICIDE SEED TREATMENT

To combat nematodes and protect yield, the corn seed treatments include Lumialza™ nematocide seed treatment, which delivers 80 days of protection against key species. Lumialza nematocide seed treatment expands the bio-barrier to shield roots, preventing contact and paralyzing nematodes.

"People think maybe they don't need a nematocide if they're in a low-pressure area," Sabatka said. "But Lumialza has a 3.7-bushel advantage even at low pressure, so it's a good idea to have this on all your acres." Under high nematode pressure, Lumialza nematocide seed treatment delivered a 9 bu/A advantage.¹ "With this data set, we recommend Lumialza to every acre, because there's a clear benefit," Borgmeier said.

FUNGICIDE OVERVIEW – PROTECTION AGAINST EARLY-SEASON DISEASES

The cornerstones of disease protection in the corn seed treatments will be Lumiante™ fungicide seed treatment and Lumiflex™ fungicide seed treatment. According to Sabatka, the combination of these fungicides offers exceptional value. Pythium disease is common in cold, wet environments and older chemistries are not working as well as they once did.

"We recommend using two modes of action, metalaxyl and Lumiante (ethaboxam) as the best one-two punch against this disease," Sabatka said. "Within our field development effort, we studied the improvements gained by increasing the typical use rate of Lumiflex (ipconazole) by 8X. This proved quite valuable in enhancing activity against Rhizoctonia, Fusarium and head smut. The enhanced protection provided against these early-season diseases has shown nice yield improvements as well as late season plant health."

Lumiante™

FUNGICIDE SEED TREATMENT

- Active ingredient: Ethaboxam
- Enhanced protection against pythium: #1 early corn disease
- Protection against metalaxyl-resistant species
- Effective at low application rates
- Balanced translocation to better protect seed, root and mesocotyl
- Long-lasting seedling protection
- 2.9 bu/A average yield advantage vs. standard
- IST/FST seed treatments²



Pythium



Lumiflex™

FUNGICIDE SEED TREATMENT

- Active ingredient: Ipconazole
- Excellent protection against corn head smut
- PLUS protects against: Rhizoctonia, Fusarium, Aspergillus, seed-borne diseases
- Systemic movement protects seed, root and plant health
- Improves emergence and stand establishment

HIGHER RATE.
ADDITIONAL
PROTECTION



Head smut



Rhizoctonia

Proven performance

Although more fungicides and modes of action help these seed treatments stand out, for Borgmeier the real differentiator is in their proven performance. "The Seed Applied Technology team tests ingredients and recipes extensively," he said. "Independent seed companies can feel confident they're using treatments that are already proven on millions of acres."

With corn seed treatment offers set for the 2022-23 season, the Seed Applied Technology team isn't resting. Borgmeier said they are looking to launch a completely new fungicide package for the 2024-25 season. "Between top genetics, traits and now really outstanding seed treatments, Corteva Agriscience is here to deliver what independent seed companies are asking for," he said. "We're working to be the go-to with the best products on the market."

To learn more about custom seed treatments available from Corteva, contact your Corteva Agriscience Account Manager.

¹ Data is based on 10-state broad-acre head-to-head strip trial comparing Lumialza™ nematode seed treatment vs. non-nematode seed treatment utilizing the same insecticide and fungicide recipe in seed applied technology replicated and strip trial data. Yields ranged from 3 to 9 bu/A depending on nematode species and population in 184 low-stress and 54 moderate- to high-stress locations.

² Data is based on replicated research trials from 2013-2015 at 50 locations comparing standard IST/FST seed treatment recipe with Lumiante to recipe without.

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