BIOST®
NEMATICIDE 100

OMRI LISTED For Organic Use

BIOLOGICAL SEED TREATMENT FOR OUTSTANDING NEMATODE CONTROL WITH ACTIVITY ON CORN ROOTWORM.

BIOST® Nematicide 100 is a biological nematicide seed treatment that has activity on multiple nematode species impacting row crops. BIOST Nematicide 100 also provides early season protection against soil dwelling insects, including wireworms, seed corn maggot, grubs, and corn rootworm.

PRODUCT FEATURES

- Provides activity on the most important nematode species including lesion, stunt, dagger, root-knot, and stubby-root nematodes, and many others.
- Insecticidal activity via contact and ingestion on both nymphs and adults.
- Proven to increase protection against corn rootworm when used in combination with a reduced rate of neonicotinoid insecticide, when compared to a 1250 (high) rate of neonicotinoid insecticide alone.
- Improves root health by significantly reducing root damage from CRW, and by increasing root volume, surface area and the number of root tips over roots protected with only a standard fungicide/insecticide.
- Concentrated liquid formulation with three-year shelf stability.
- Compatible with most fungicide/insecticide combinations, coupled with excellent seed safety.

PRODUCT PERFORMANCE

In multi-year research trials, BIOST Nematicide 100 has not only shown outstanding nematicide properties, it has also improved corn rootworm efficacy by decreasing root damage and maintaining yield potential when used in combination with standard fungicide/insecticide (F&I) packages and in combination with reduced rates of neonicotinoid insecticides (clothianidin).

CRW root evaluations: Corn-on-corn rotation (Newell, IA - 2023)

Standard F&I package
500 rate of neonicotinoid insecticide

Standard F&I package
250 rate + BIOST Nematicide 100

Standard F&I package
500 rate + BIOST Nematicide 100

ACTIVE INGREDIENT
Heat killed *Burkholderia* ssp. strain A396 cells and spent fermentation media (enzymes and toxins)

IRAC GROUP
N/A

FORMULATION
Water-based liquid

COMPARE TO
Unique formulation

MODE OF ACTION
Enzymatic degradation of exoskeleton and the effect of toxins on the molting process and feeding that leads to mortality through contact and/or ingestion

USAGE RATES
6-8 fl oz/100 lbs seed for field, sweet, and popcorn

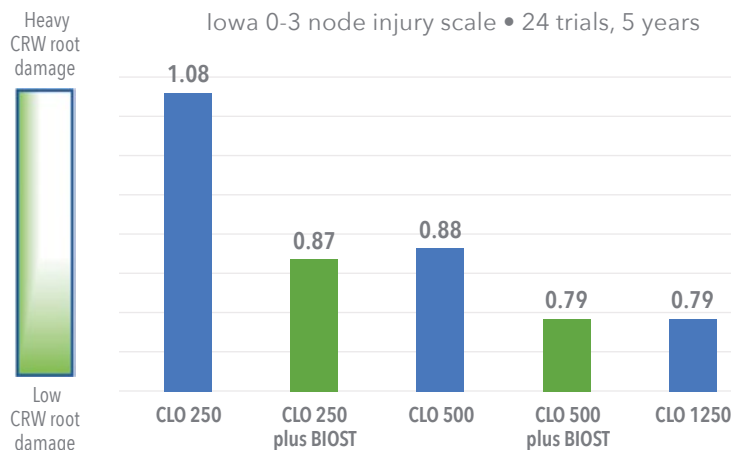**SIGNAL WORD**
Caution

RESTRICTED USE
No

PACKAGING
2 x 2.5 gal

EPA REG NUMBER
84059-14-42750 | AD092818C

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BIOST® NEMATICIDE 100

CRW Ratings
Iowa 0-3 node injury scale • 24 trials, 5 years

Heavy CRW root damage

Low CRW root damage

CLO 250	CLO 250 plus BIOST	CLO 500	CLO 500 plus BIOST	CLO 1250
1.08	0.87	0.88	0.79	0.79

CRW Yield (bu/A)
24 trials, 5 years

CLO 250	CLO 250 plus BIOST	CLO 500	CLO 500 plus BIOST	CLO 1250
194.02	201.25	200.85	210.41	209.67

Figure 1. The data indicates that the addition of BIOST Nematicide 100 to a 250 and 500 rate of a neonic reduces the CRW damage and increase the yield over the neonic rates alone. The BIOST Nematicide addition to a 250 neonic rate reduces CRW root damage and increases yield similar to a 500 rate. The best CRW seed treatment was the addition of BIOST Nematicide 100 to a 500 rate. The efficacy was similar, if not better than, the 1250 (high) neonic rate.

Midwest SC Corn Performance (2022)
Standard F&I with 500 neonic rates vs. F&I with 250 neonic rate + BIOST Nematicide 100

~63% win rate @ ~5.6 bu/A

52 total trials in 2022. BIOST Nematicide 100 was added to standard F&I treatments form Bayer and Syngenta.
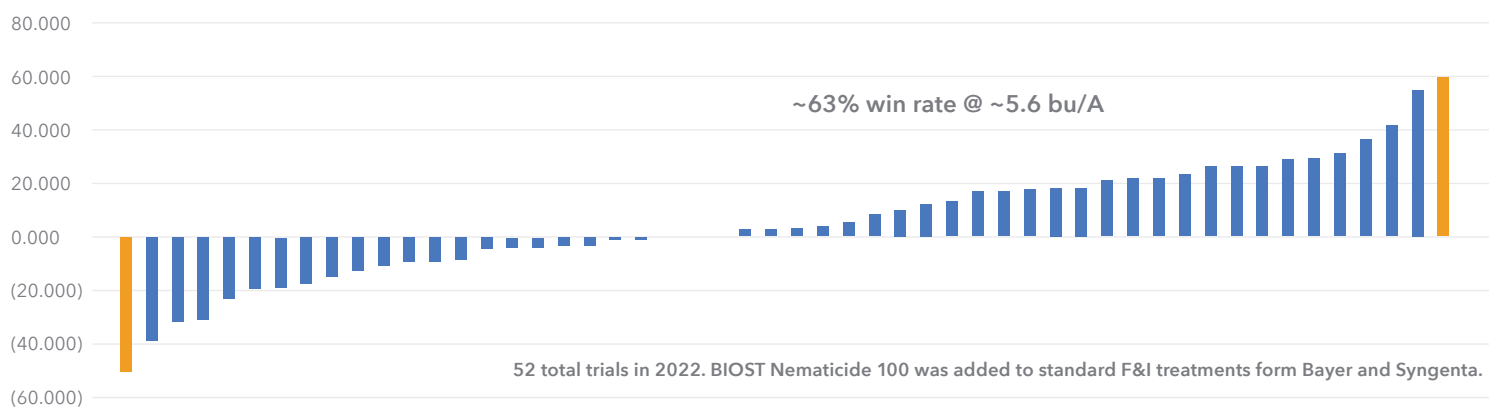
Figure 2. In research conducted by a Midwest seed company (52 trials), BIOST Nematicide 100 improved yield (5.6 bu/A yield advantage – 63% of the time) when combined with a 250 rate of a neonic on either a Bayer® or Syngenta® F&I package over that of a 500 rate of a neonic alone.

◄ See label for complete application guidelines and restrictions.

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