

# THEY'RE SUCKING THE LIFE OUT OF YOUR ROOTS.

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THE BENEFITS OF A ZELTO® AND CRESCENDO® SPRAY PROGRAM FOR NEMATODE CONTROL AND TURF HEALTH.

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*"Tank-mix applications of Zelto and Crescendo show great promise for management of root-knot nematodes in turf."*

— Dr. Billy Crow

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# What are Zelto & Crescendo?

Zelto and Crescendo are both biological nematicide/insecticides that have a history of nematode control that enables increased root growth and improved turf quality. Both can be used on greens, fairways, roughs and tees, with no limit to the number of applications.



Contains killed cells of *Burkholderia* spp. and spent fermentation media.

**Zelto controls soil borne/dwelling insect and nematode pests with multiple modes of action:**

- Enzymatic degradation of exoskeletal structures – active against adults and nymphs.
- Interference with the molting process – exposed nymphs and immature insects are unable to molt.
- Mortality through contact and/or ingestion.



Contains cells of *Chromobacterium* spp. and spent fermentation media.

**Crescendo contains active compounds that lead to multiple effects:**

- Provides nematode control by reducing the number of eggs and second stage juveniles in treated soil.
- Reduces root galling (root knot) as a result of the reduction of second stage juveniles and eggs of endo-parasitic nematodes.
- Controls ecto-parasitic nematodes which encourages rapid plant regeneration.
- In turfgrass, plugs/cores and visual new roots (white roots) have been observed, resulting in improved turf quality.

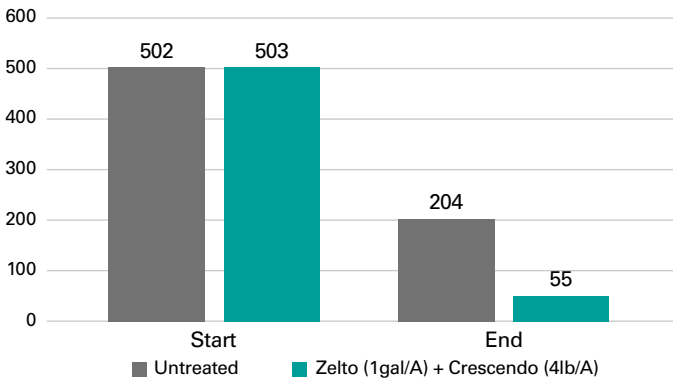
## The Value and Benefits of Biopesticides

- Provide alternative modes of action – critical component in most IPM programs
- Ability to extend the life of conventional chemicals by providing resistance management benefits in agronomic programs
- High degree of worker safety and the shortest reentry intervals allowed by law
- Value-added benefits, including improved plant health, with no adverse impact on beneficial organisms
- Efficacy as a stand-alone, or synergy with traditional synthetic chemicals

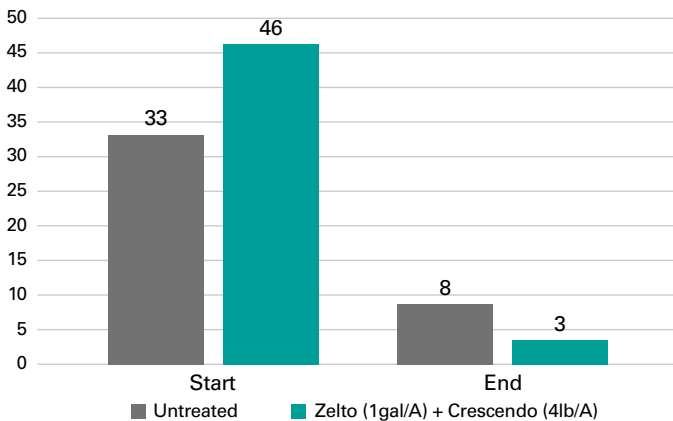
# The Spray Program

In recent university trials, tank mixes of the powerful combination of OMRI-listed Zelto and Crescendo biological nematicides/insecticides significantly reduced populations of the most destructive turf nematodes and improved turf quality more than any other treatment.

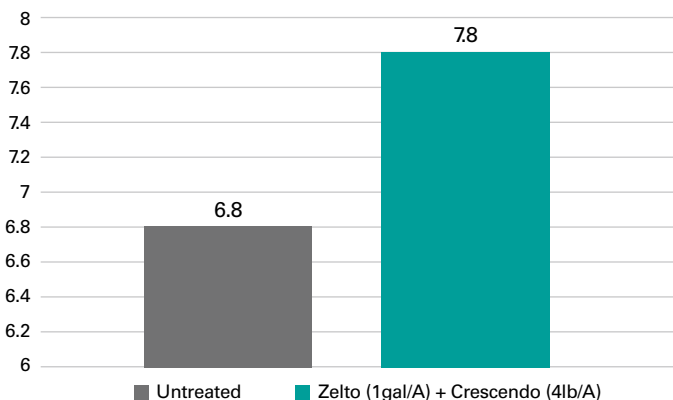
Root-knot nematode juveniles (Florida 2021)



Root-knot nematode adult males (Florida 2021)



Turf quality 1-9 (Florida 2021)



## Recommended tank mix rate

Zelto at 1 gallon/A +  
Crescendo at 4 lbs/A

## Usage instructions

*Best use practices for an effective Zelto and Crescendo tank-mix solution.*

- Apply this tank mix every 28 days
- Does not have to be watered in immediately, but recommend watering in within 24 hours
- Use soil wetting agent
- No REI restrictions (as soon as spray has dried)
- No annual usage rate restrictions
- Tank mix compatibility. Can spray with fungicides/fertilizers as part of a complete plant health program
- Can also be used in rotation with other nematicides on the market



Untreated check (left) versus Zelto + Crescendo tank mix on Bermudagrass putting greens at the University of Florida turf farm in 2021.

# More than just root-knot control

Zelto and Crescendo have a history of lance and sting nematode control and a low toxicity profile. Zelto and Crescendo also have no annual maximum use rate, unlike other other nematode products on the market.

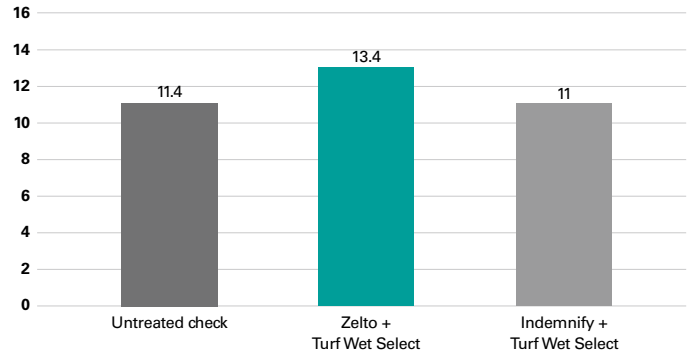
TYPE	ZELTO®	CRESCENDO®	INDEMNIFY®	DIVANEM®
LANCE	✓	✓	✗	✓
ROOT-KNOT	✓	✓	✓	✓
STING	✓	✓	✓	✓
SIGNAL WORD	Caution	Caution	Caution	Warning
MAXIMUM ANNUAL USE RATE	None	None	17.1 ounces	50 ounces

## Root length benefits

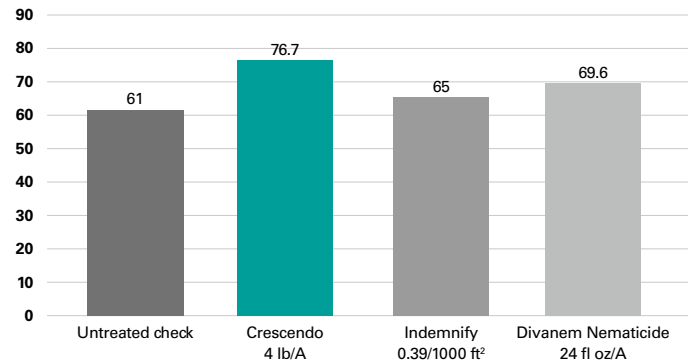
Zelto and Crescendo, alone, have proven to protect the turf from yield-robbing nematodes; thereby, promoting stronger, healthier, new and more robust roots.



Bentgrass - root length (cm)  
University of Missouri 2020



Bermudagrass putting green - root length (mm)  
Pine Valley Country Club, Wilmington NC 2017



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