Corn Nematode Management Update

Zane Grabau, Extension Nematologist: [zgrabau@ufl.edu](mailto:zgrabau@ufl.edu)

* Corn nematode management options: 1. Nematicide application, 2. Crop rotation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Conventional non-fumigant nematicides labelled for use in corn | | | | |
|  | | *Nematicide*  *(common name)* | *Maximum Single Application Rate2* | *Application method* |
| *Granular Nematicides* | Counter 20G  (terbufos) | | 6 oz/1000 ft of row. (4.9-6.5 lb/acre, depending on row spacing) | In-furrow |
| Mocap 15G  (ethoprop) | | **Broadcast:** 40 lbs/acre.  **Banded:** 1 lb per 1000 ft of row (10–26.6 lb/ac depending on spacing) | Broadcast or banded |
| *Liquid Nematicide* | Velum  (fluopyram) | | 3-5 fl oz/acre (up to 13.7 oz total/year) | In-furrow  (Other in-season methods allowed) |
| Propulse1 (fluopyram) | | 8 fl. oz/acre (34.2 oz total/year) | In-furrow  (Other in-season methods allowed) |
| Averland FC (abamectin) | | 6 fl. oz/acre | In-furrow |

1 Propulse also has prothioconazole fungicide. 8 oz Propulse roughly equivalent to 3 oz Velum

2 Fumigants, such as Telone II are also labelled for field corn

* Chart, bar chart

  Description automatically generated**Nematicide efficacy:** On average, Counter has been more effective than fluopyram products (Velum or Propulse). Limited testing with Averland FC.

Chart, bar chart

Description automatically generated

Figure 1. Small plot field trial results from Hastings, FL. Means that share a letter are not significantly different.

A graph of different colored bars

Description automatically generatedFigure 2. Corn grain yield in small plot trial at Citra, FL in 2022 for different nematicide treatments. Means were not significantly affected by nematicides.

* **Reducing frequency of grasses will help manage nematodes in corn.**

A graph of different types of crops

Description automatically generated

Figure 3. **Forage corn yield** following various rotation crops from small plot field trial in Citra, FL. CN is corn, MT-F is pearl millet with fertilizer, MT-U is millet without fertilizer, SSG is sorghum-sudangrass, and SH-H and SH-I are sunnhemp with or without residue incorporation.