

Nematode management in field corn

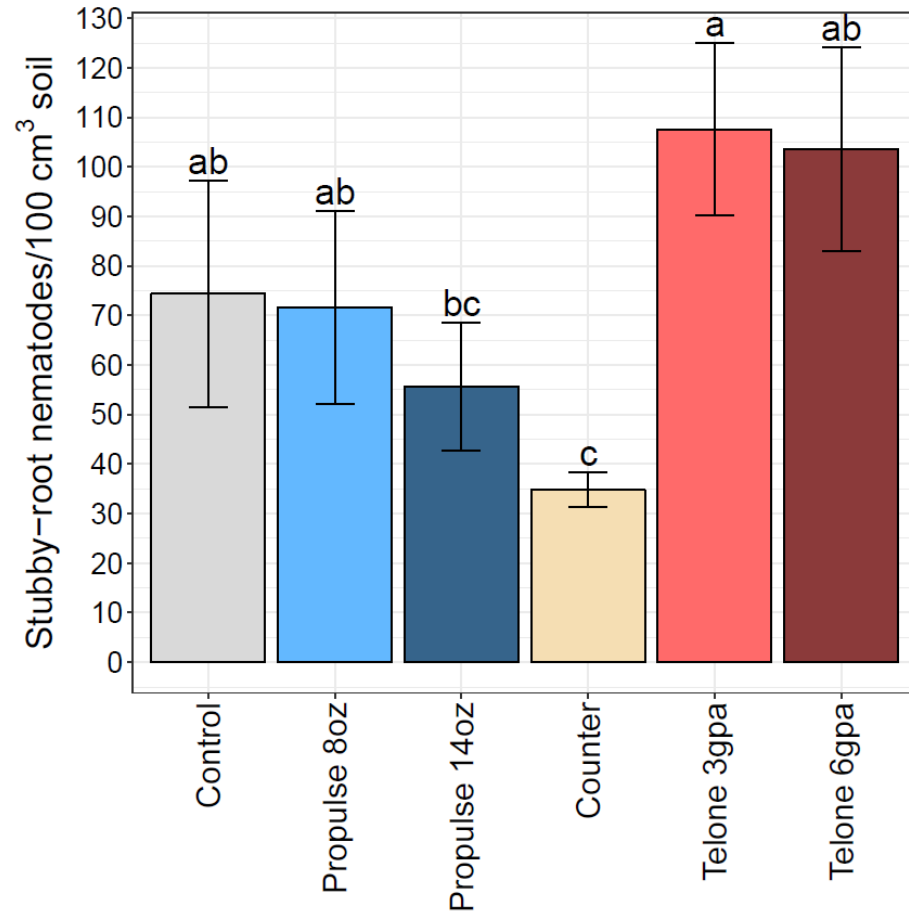
Zane Grabau, UF nematologist

zgrabau@ufl.edu

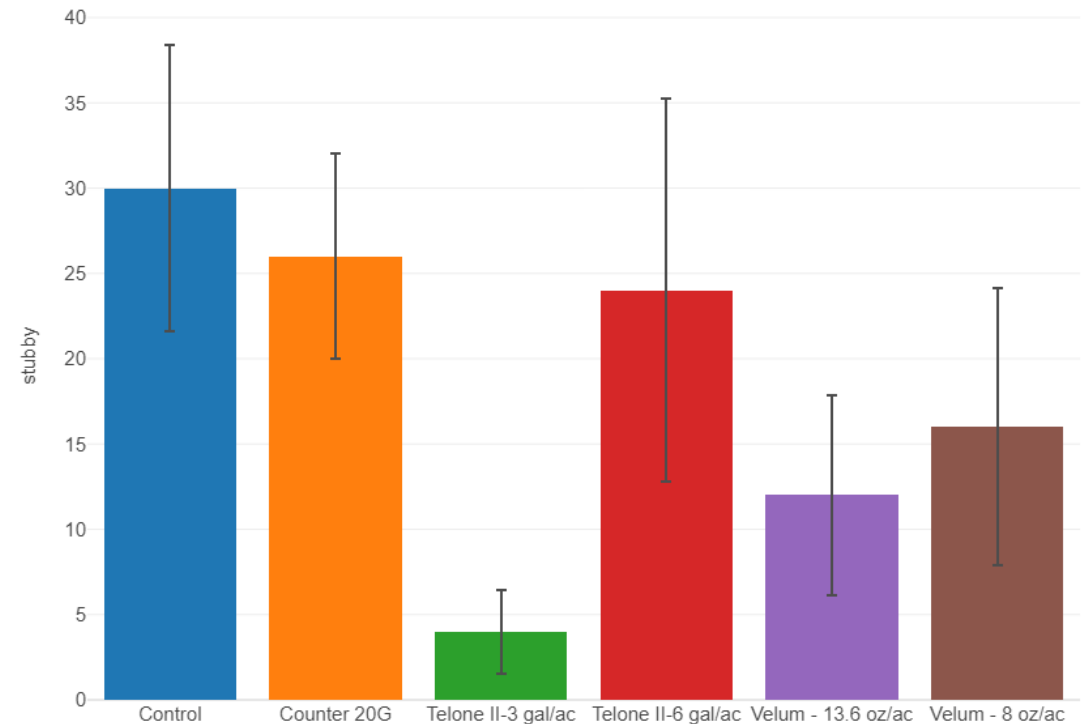
Twitter: @ufcropnematodes



Nematicide efficacy in Hastings corn trials

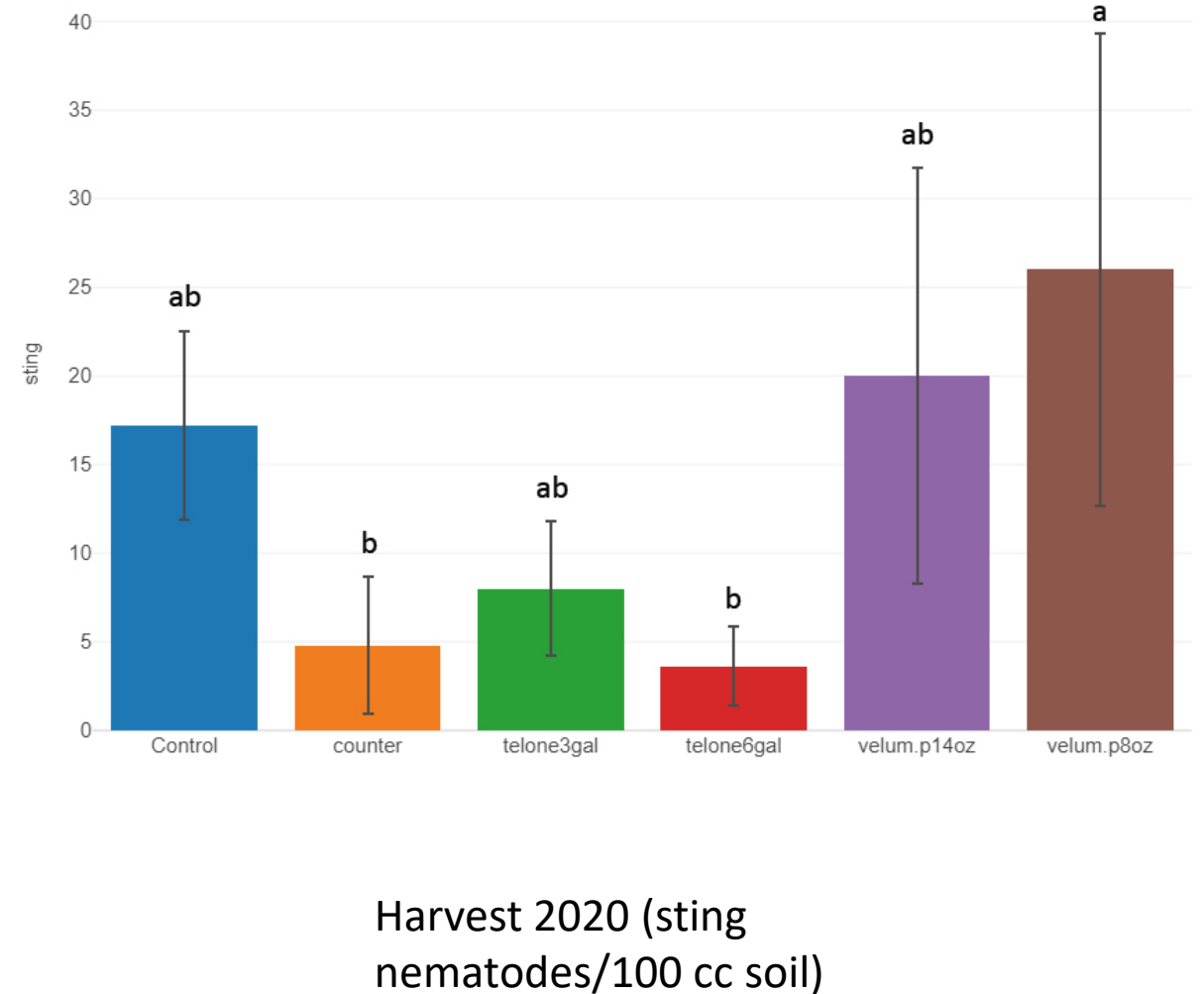
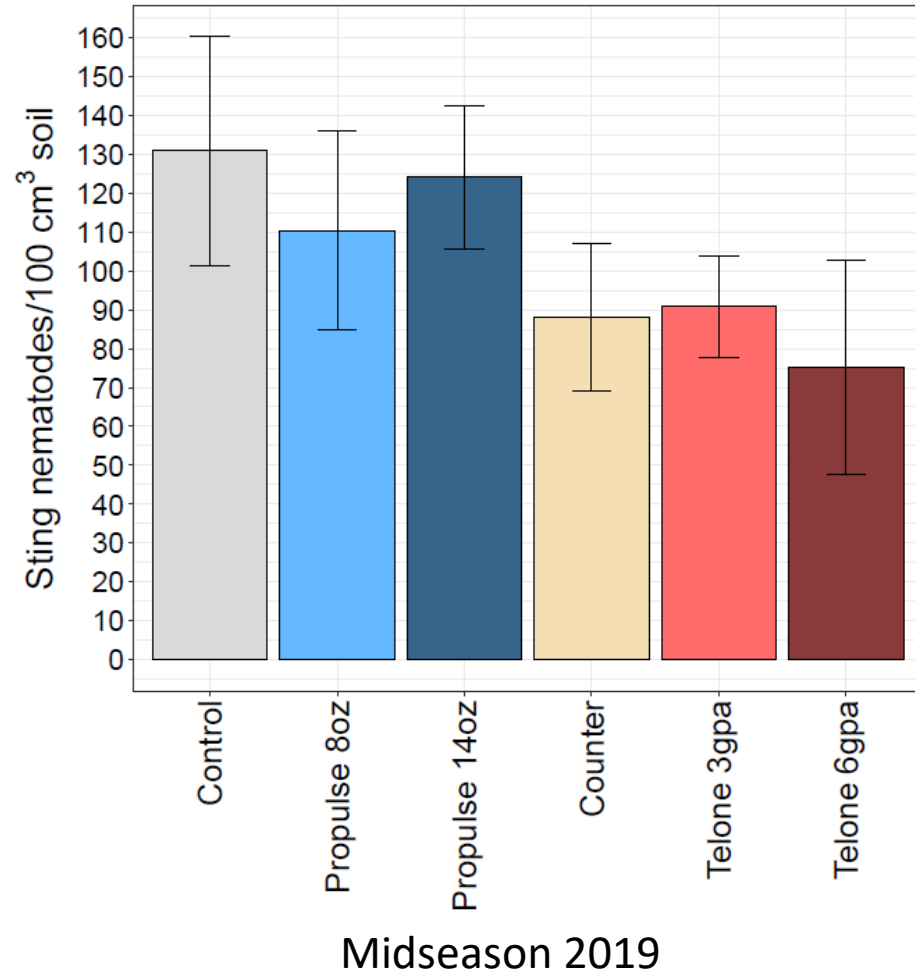


Midseason 2019 (means with shared letter are not significantly different; Fisher's protected LSD $P < 0.05$)



Harvest 2020 (stubby-root nematodes/100 cc soil)

Counter and telone effective vs. sting nematode in 2020



Nematicides increased corn vigor at one month after planting



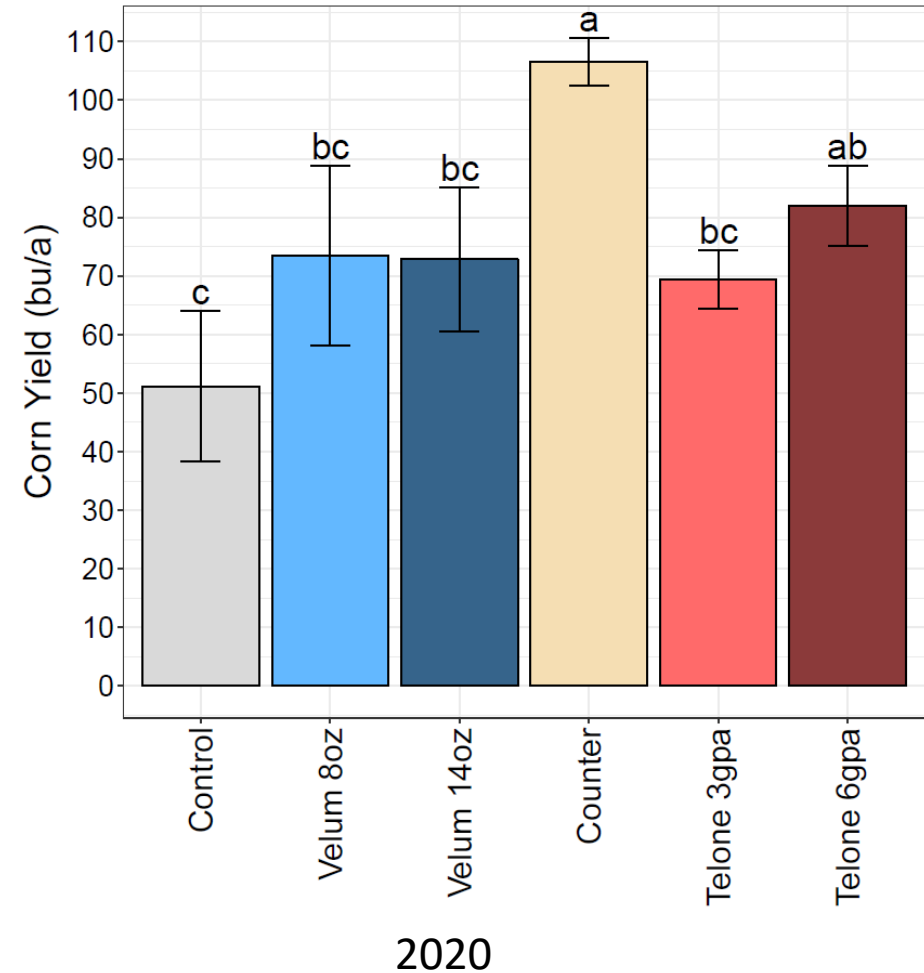
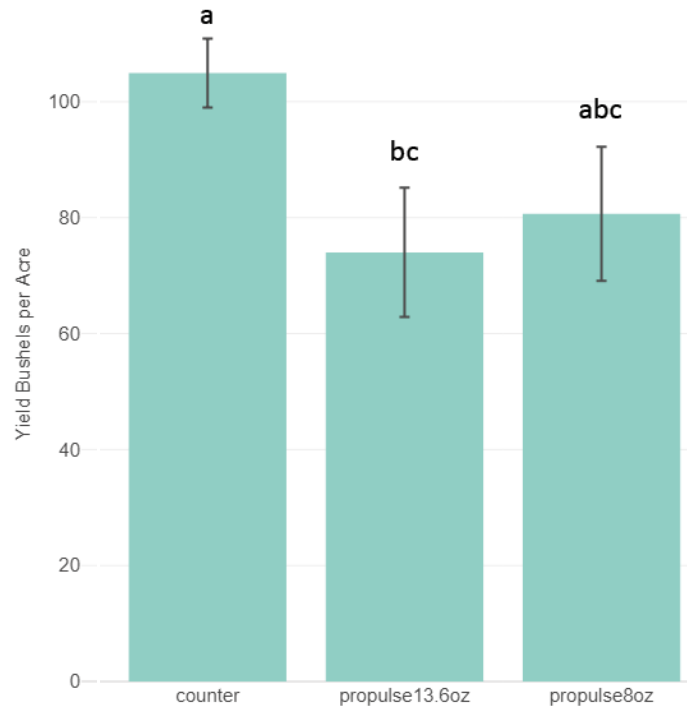
Counter

Propulse

Untreated

Telone II

Counter most consistent at increasing yield

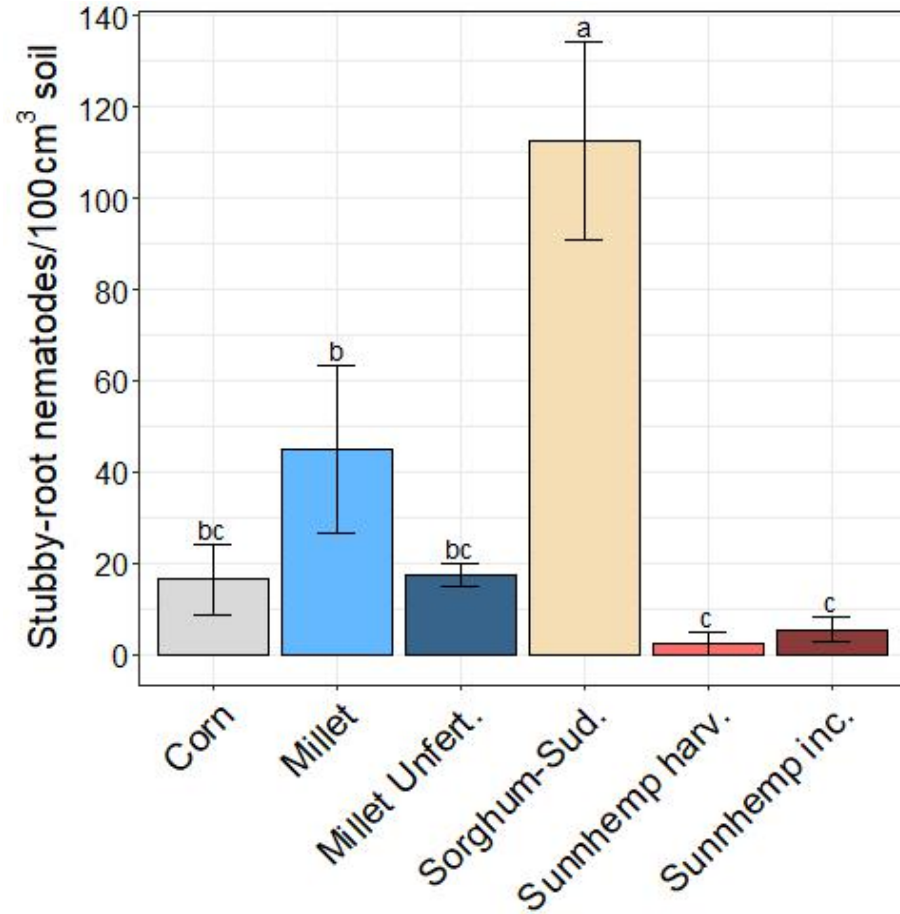


2019 (poor stand in control and telone due to mechanical issue)

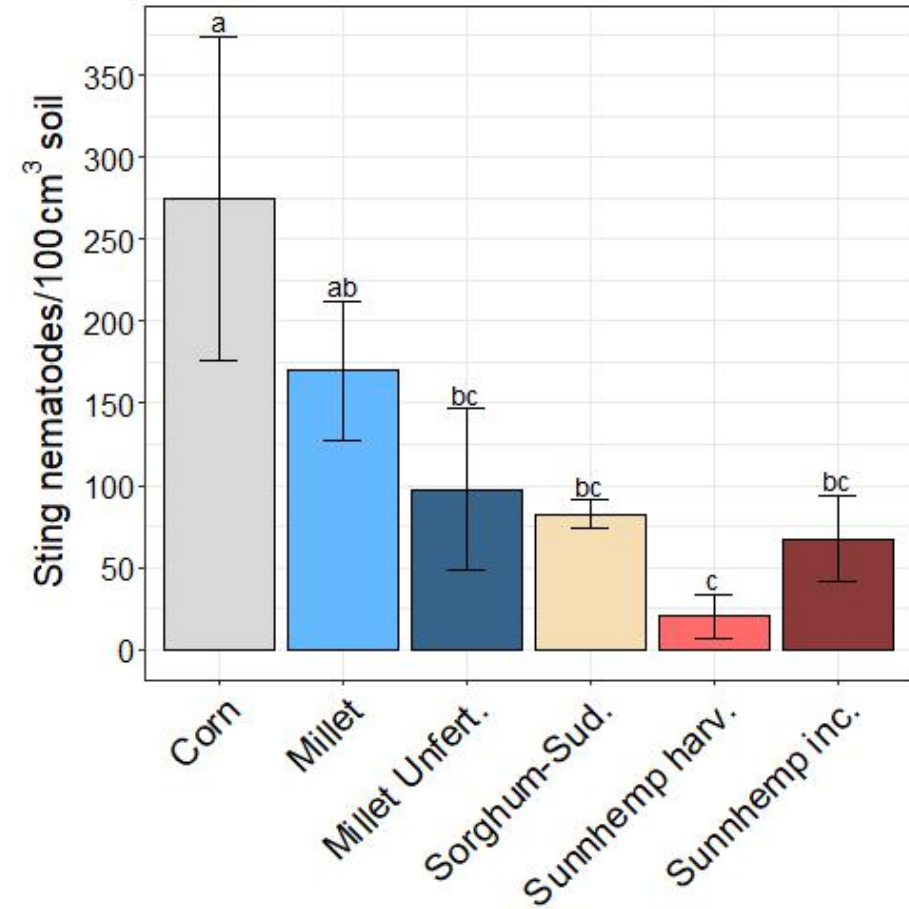
Corn cover crop trial in Citra, FL
(summer/fall cover crops, spring corn)



Sunnhemp helped reduce both sting and stubby-root nematodes



Cover crop termination 2019



Preplant corn 2020

Stunted, pruned corn root following fall grasses (left) compared with vigorous corn following sunnhemp (right). Symptoms typical of nematode damage on corn.



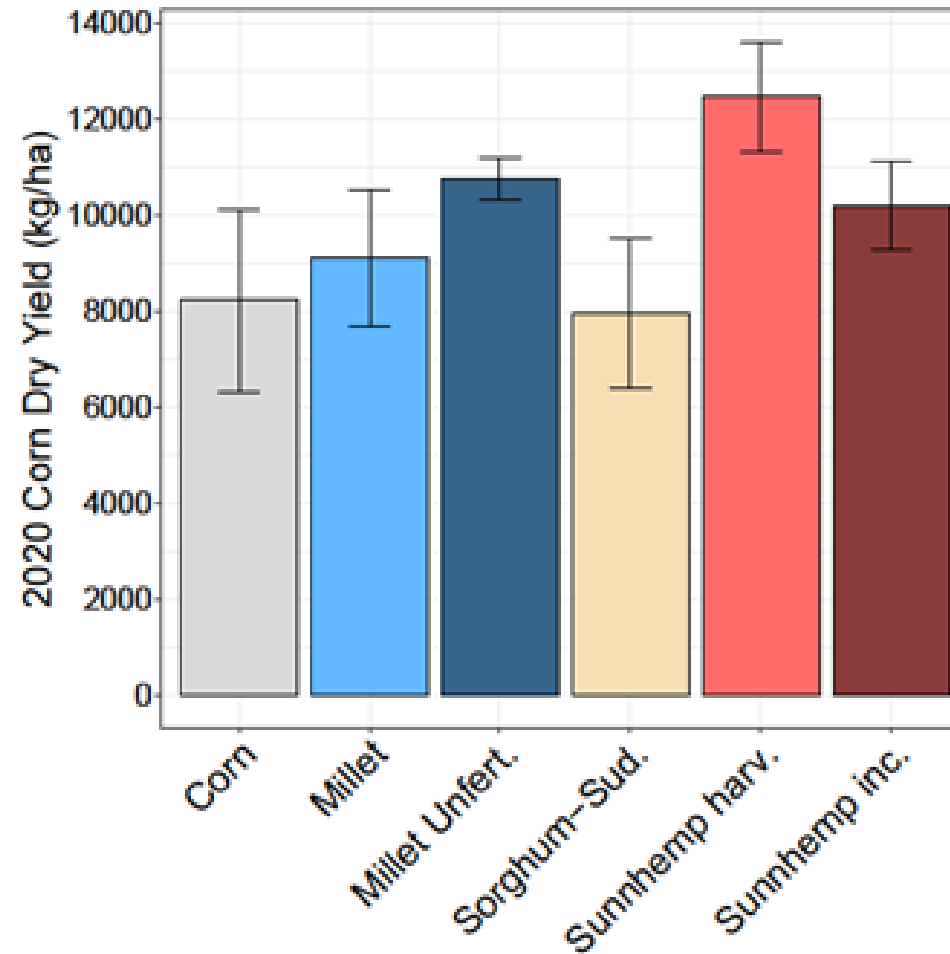
Corn root systems following (left to right), sunnhemp incorporated, unfertilized millet, sorghum-sudangrass, fertilized millet, and harvested sunnhemp





Stunted corn typical of nematode damage following millet (left) vs. healthier corn following sunnhemp (right)

2020 corn dry matter (silage) numerically greater after sunnhemp and unfertilized millet



Acknowledgements



- **Mussie Wolday**
 - Grad student
- Jose Dubeux
- Marcelo Wallau
- Funding from Florida Milk Checkoff & St. Johns County

