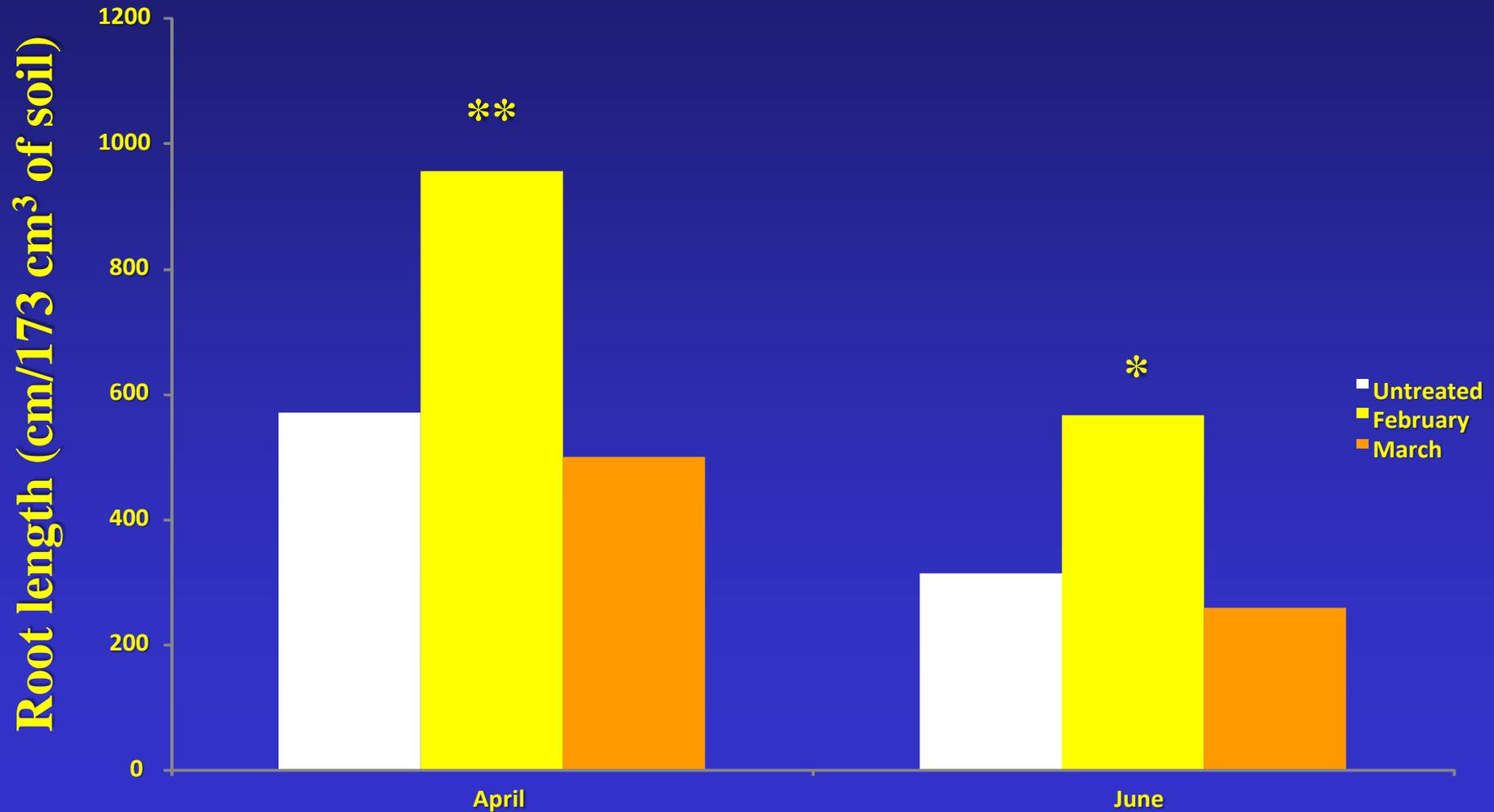
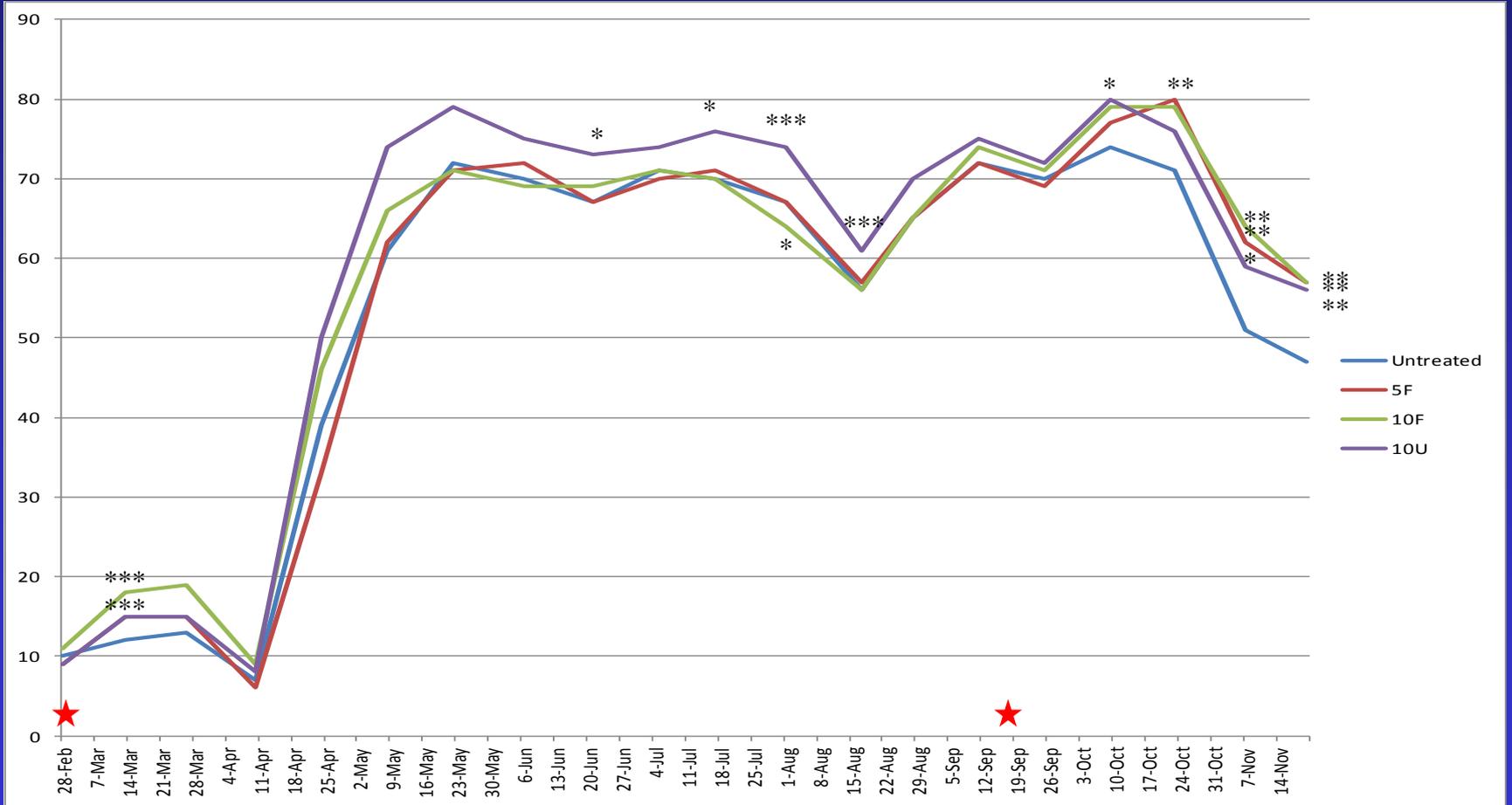


2011, N. Florida



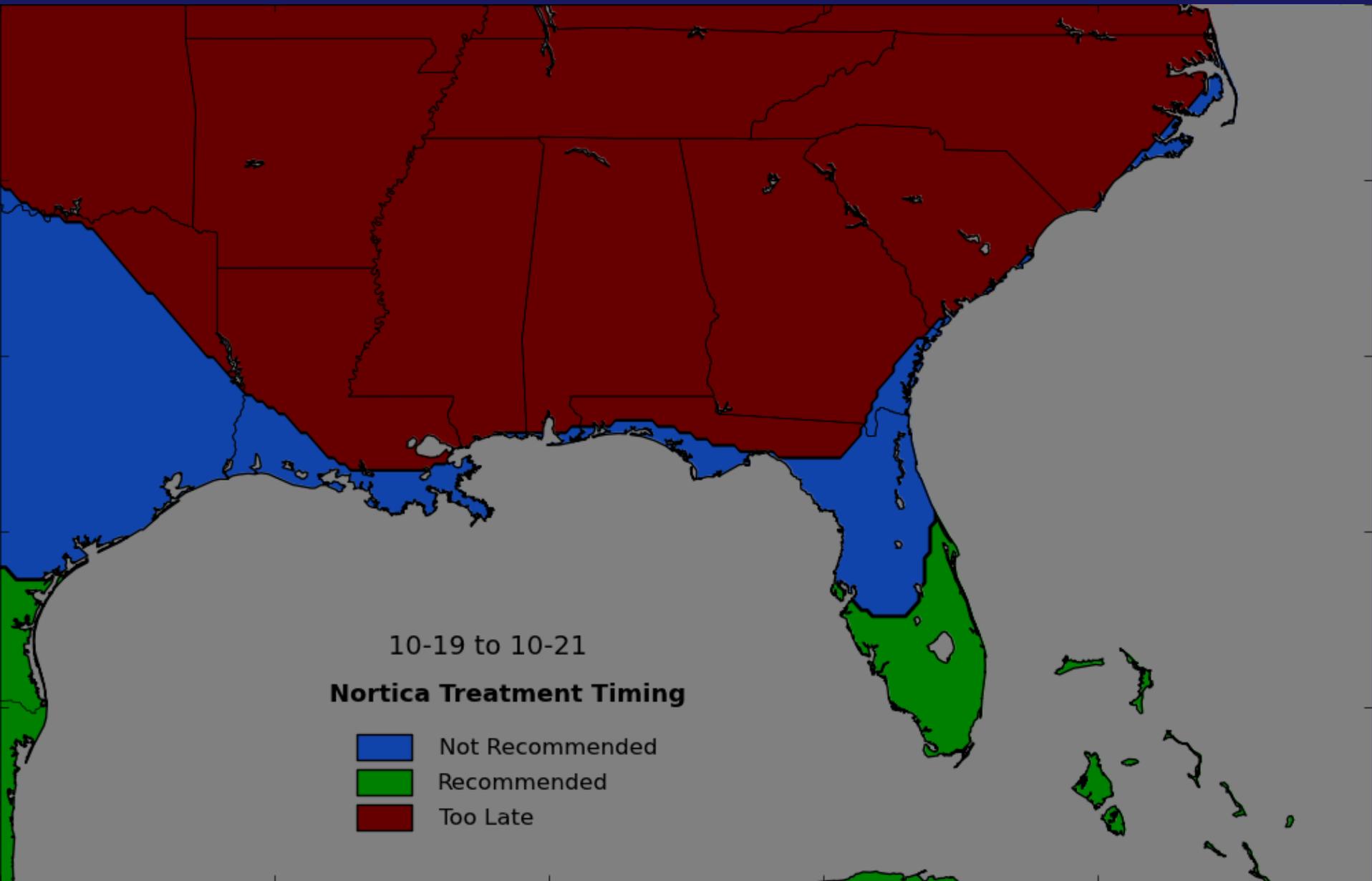
Nortica on St. Augustine

Percent green cover (0-100%)



Summary of Nortica

- **Typically some degree of root improvement, some inconsistency**
- **Not as directly effective as conventional nematicide**
- **Better used early to prevent problem from developing, timing is important**
 - **Use Bayer's application maps at www.backedbybayer.com/nortica**



Mustard bran

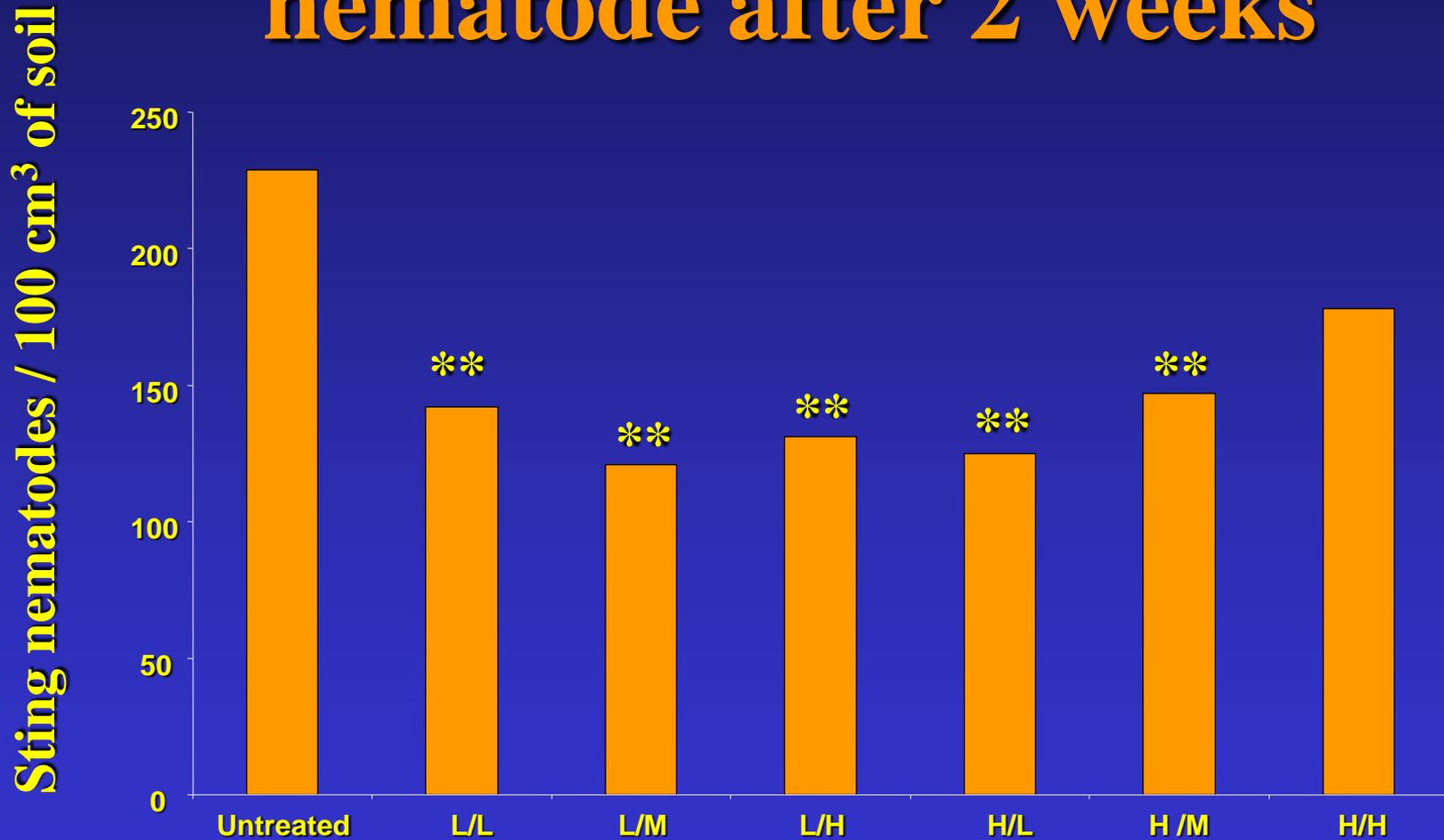
- Derived from *Brassica juncea* (oriental mustard)
- Glucosinolates \Rightarrow allyl isothiocyanate
- Nematicidal fumigant

MustGrow Invest



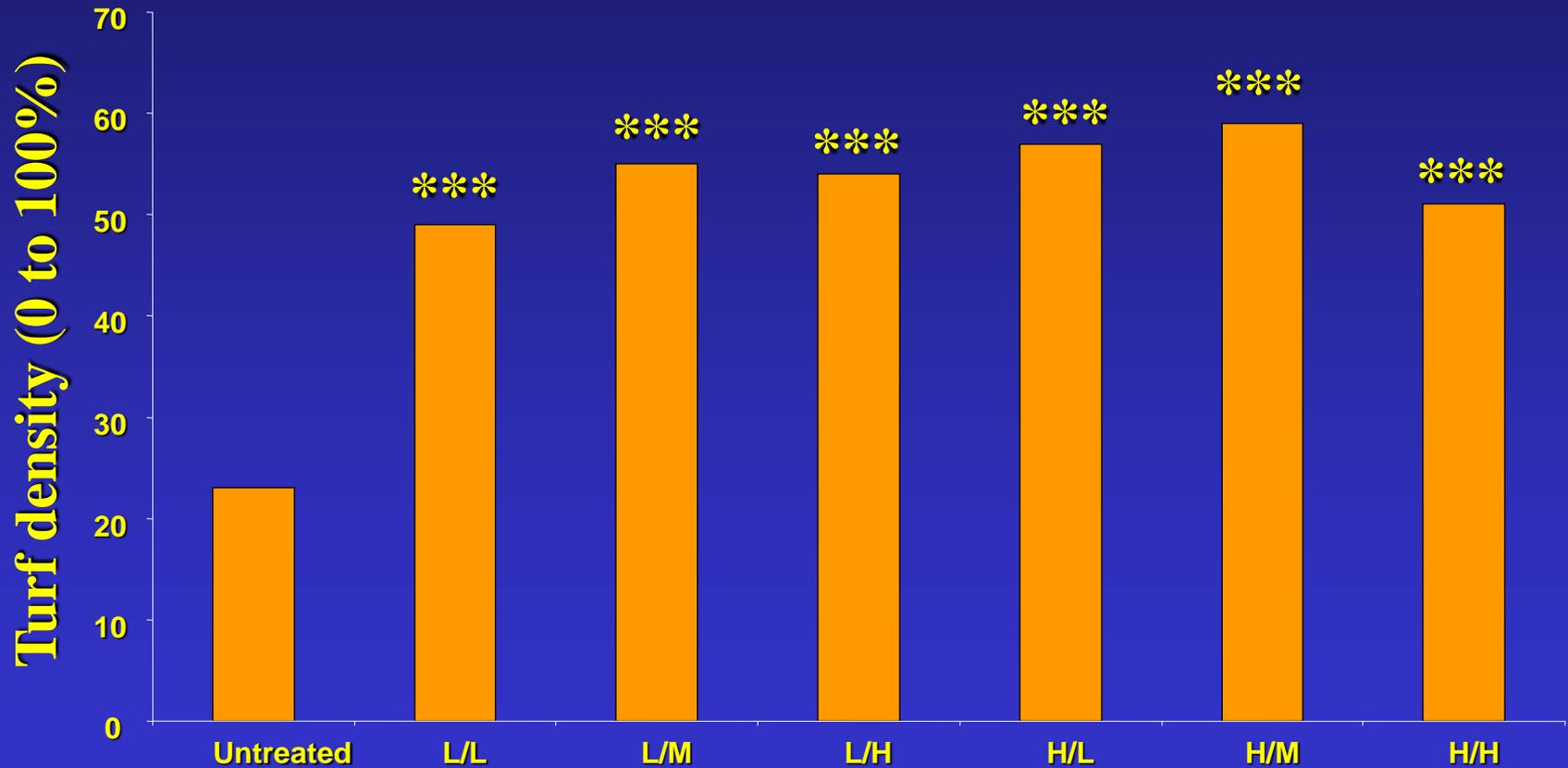
- **Processed Mustard Plant Material**
- **Produced by MPT**
- **Distributed by Direct Solutions and The Andersons**
- **Applied topically**
- **Activated by water**

Effects of treatments on sting nematode after 2 weeks



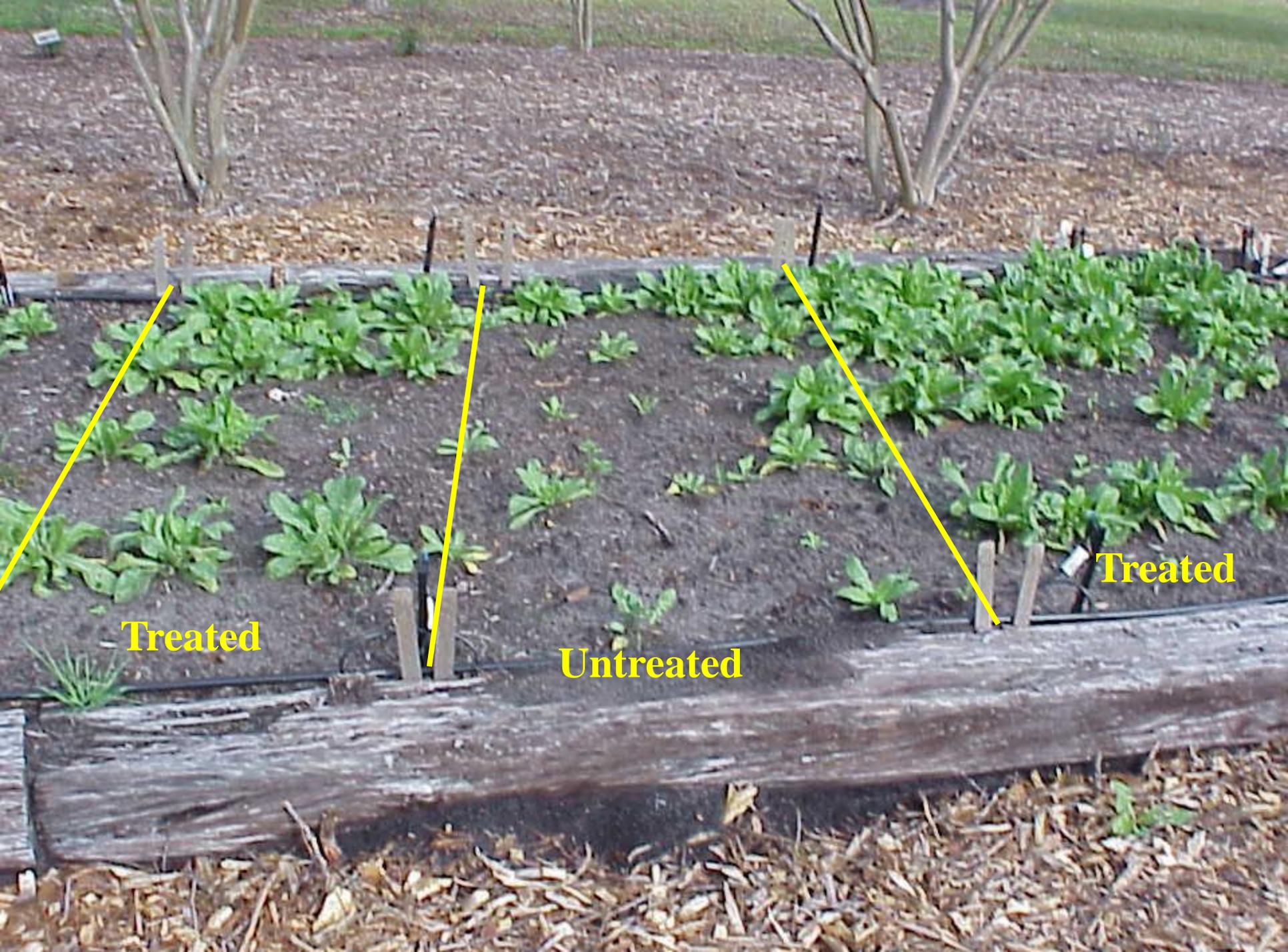
** ($P \leq 0.05$)

Effects of treatments on turf density after 2 weeks



***($P \leq 0.01$)





Treated

Untreated

Treated

MustGrow Invest

- **Lawns**
 - **Best with high infiltration and efficient irrigation system**
 - **Optimal with aerification**
- **Bedding plants**
 - **Incorporate**
 - **Tarped or untarped (tarped best)**
 - **2-wk transplant interval**

MustGrow Invest

- **Mustard Products and Technologies**
- **Think of it as a fertilizer with added benefit**
- **5-1-1 fertilizer**
- **Nematode reductions - inconsistent**
- **Plant improvement – consistent**



Results- field exp't

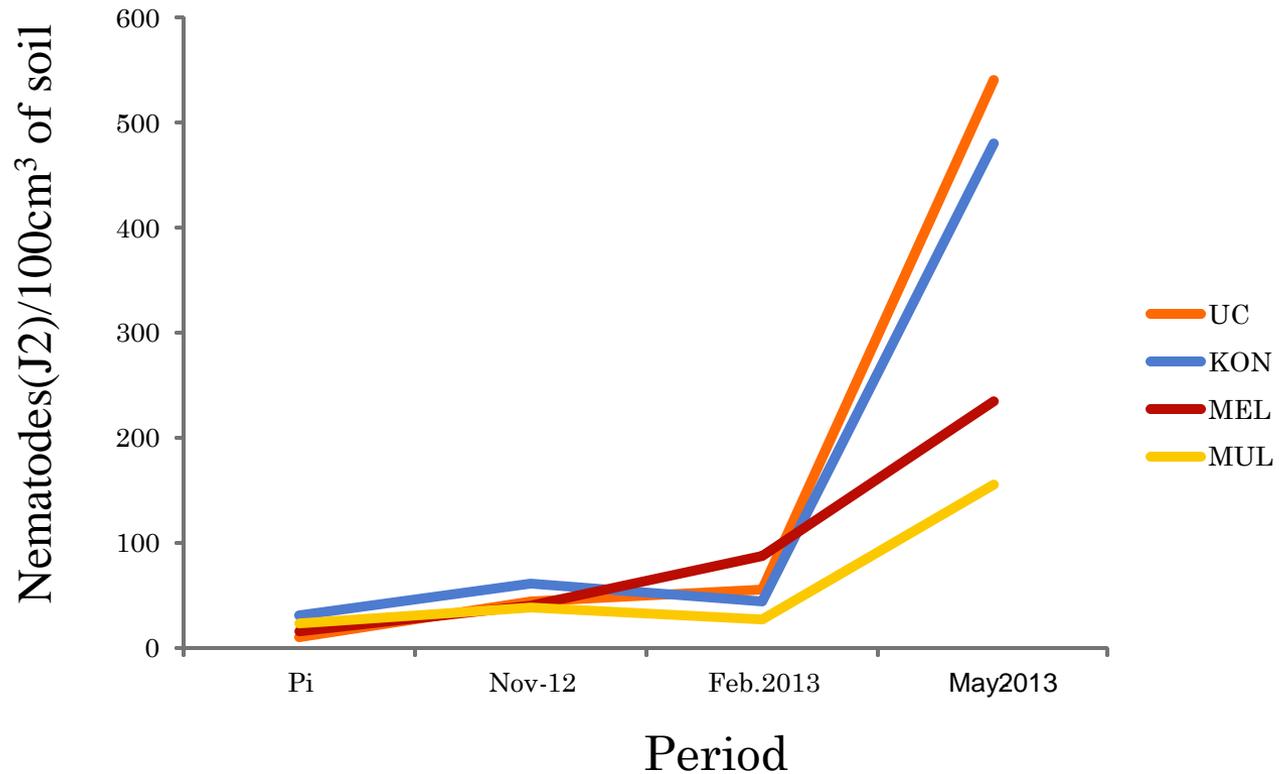


Fig.4: Effects of treatments on root-knot nematodes population dynamics in the of soil.

Results- on-farm exp't

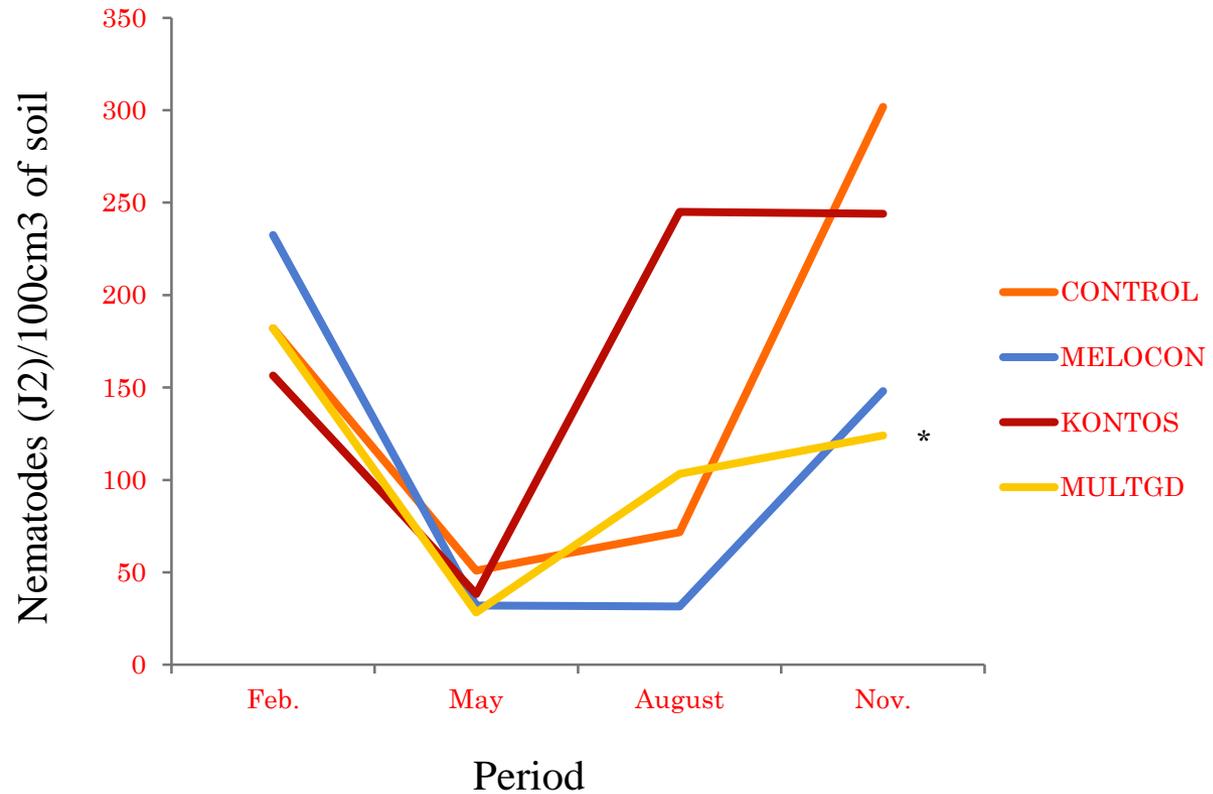


Fig.6: Effects of treatments on the number of root-knot nematodes/100cm³of soil.

Questions?



- **Landscape Nematology Lab:**
<http://entnemdept.ufl.edu/lab/people/crow/>
 - wtr@ufl.edu (352) 273-3941
- **Nematode Assay Lab:**
<http://nematology.ifas.ufl.edu/assaylab/>
 - nemalab@ifas.ufl.edu (352) 392-1994