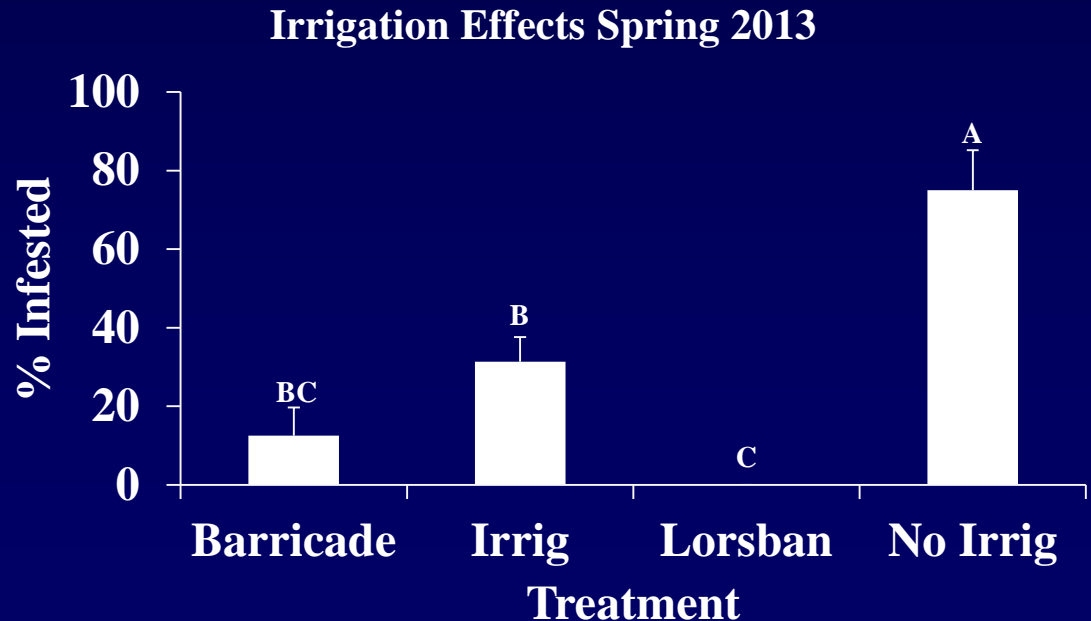


# Fig. 1. Irrigation Effects, 1<sup>st</sup> Trial Vs. Peachtree Borer

- Treatments: no irrigation, Irrigation (3X per wk over 2 wks), Barricade, chlorpyrifos (Lorsban)
- Conducted at Lane's commercial orchard
- All treatments received nematodes except Lorsban

Lack of irrigation = fail  
With irrig – suppression  
Barricade trt = to Lorsban



**Figure 1**

## Fig. 2: Peachtree borer control with beneficial nematodes: Irrigation Effects, 2nd Trial (2014)

- Treatments (same): no irrigation, Irrigation (3X per wk over 2 wks), Barricade, chlorpyrifos
- Apply in fall 2013, assess infestation spring 2014 (4 reps of 4 trees)
- Peach orchard, USDA-ARS, Byron, GA

Lack of irrigation = fail

Nematodes with irrig  
or Barricade  
= suppression similar to  
chemical insecticide

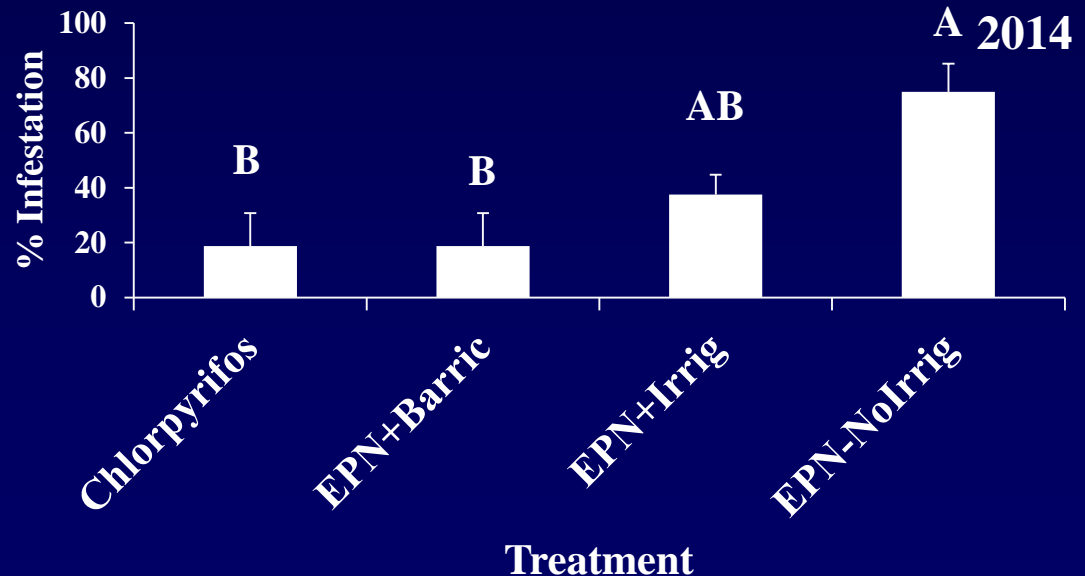
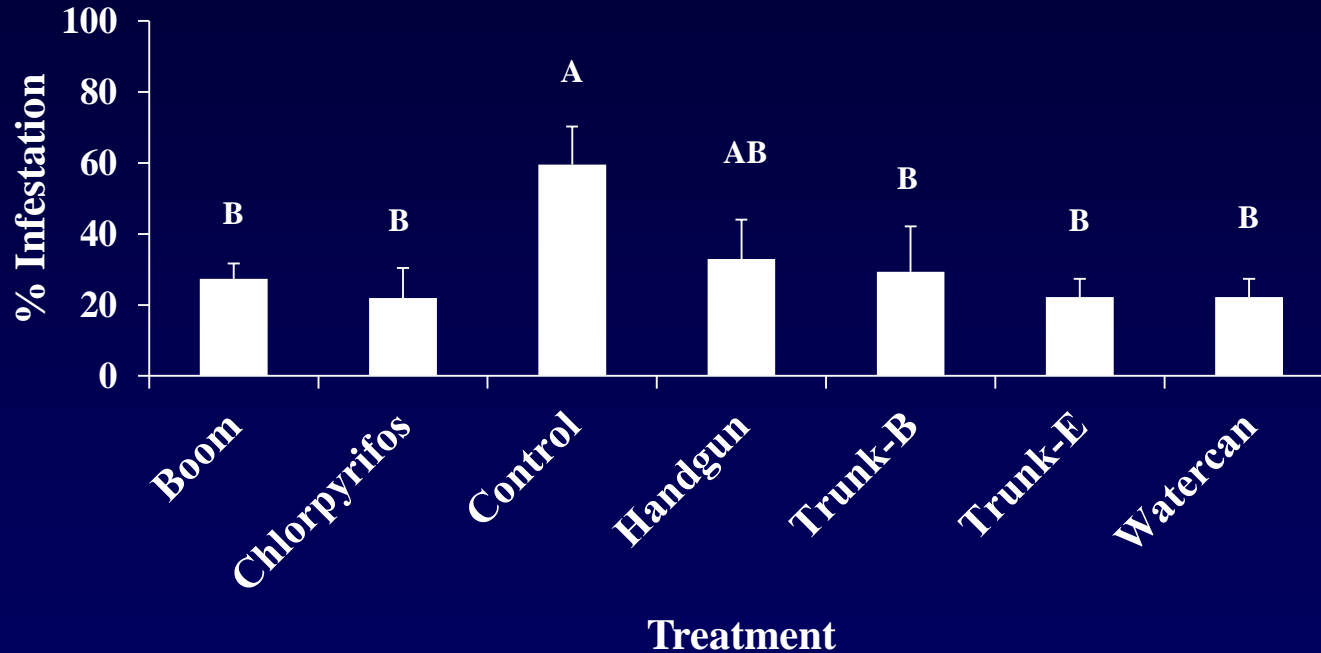
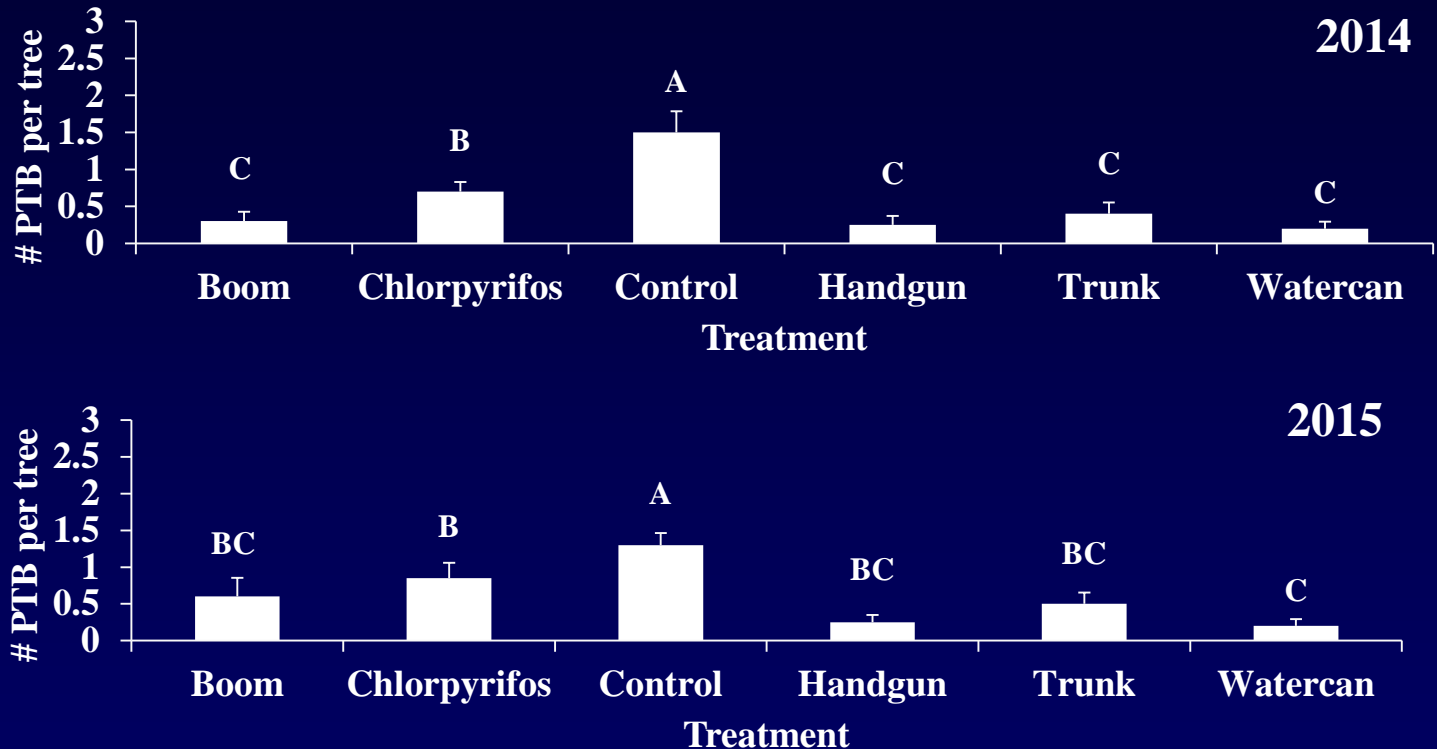


Fig. 3: Peachtree borer control with beneficial nematodes: Effect of Application Method: Results (2 years combined)



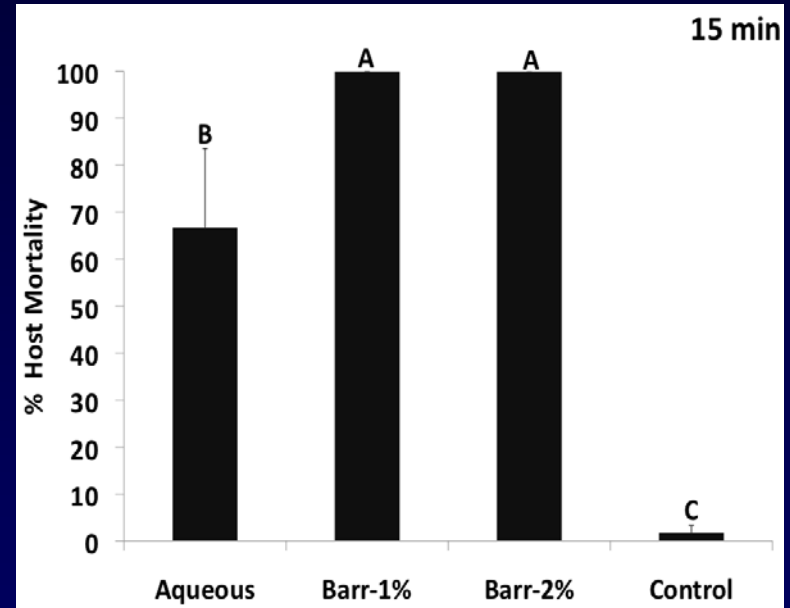
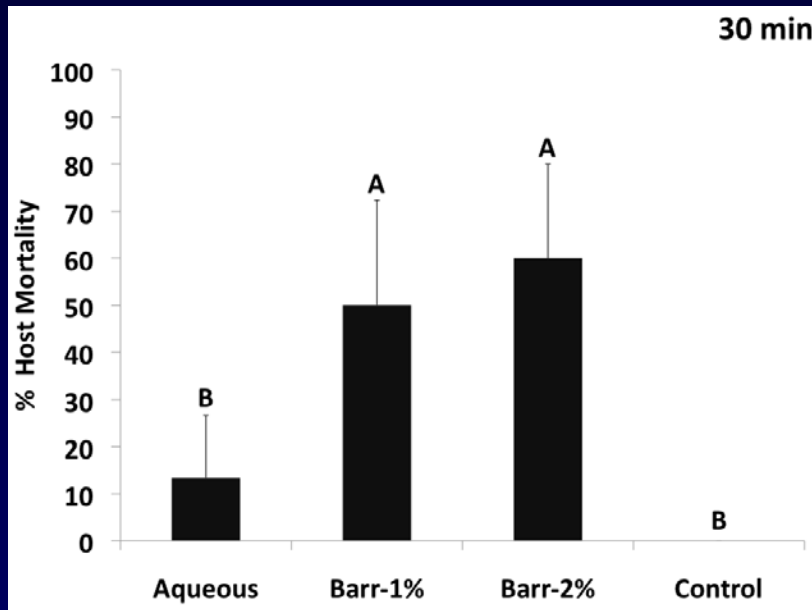
- All methods of nematode application suppressed infestation below the control and were similar to chlorpyrifos, except handgun treatment

Fig 4. Curative applications for control of peachtree borer (# of surviving peachtree borer, PTB)



- Beneficial nematodes suppressed the pest as well or better than chlorpyrifos

Fig. 5. Effects of Barricade Gel on Efficacy of Beneficial Nematodes Exposed to Direct Sun

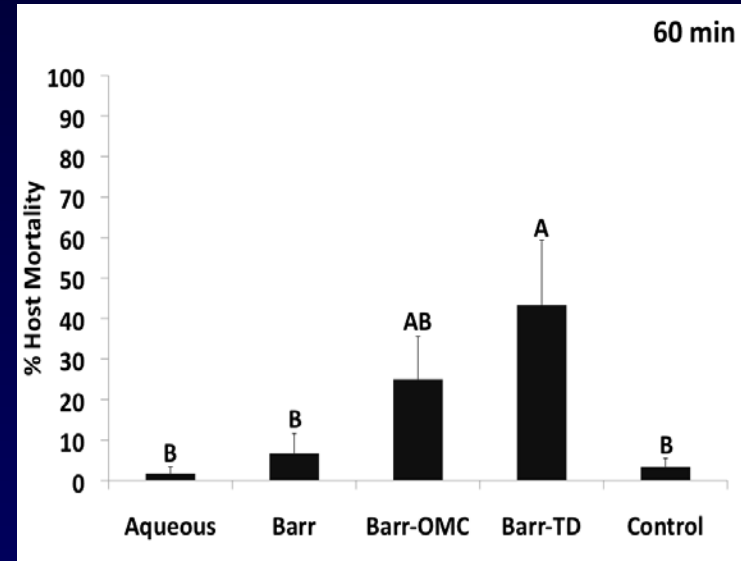
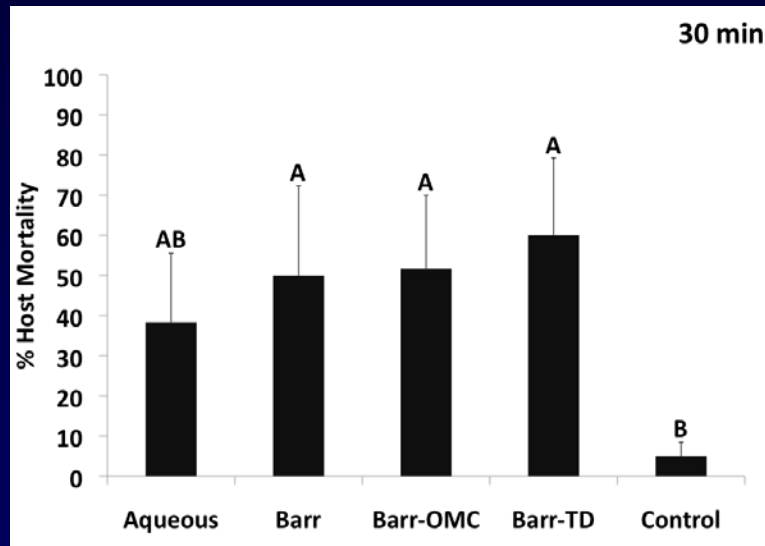


Host mortality, 24 h incubation

Host mortality, 48 h incubation

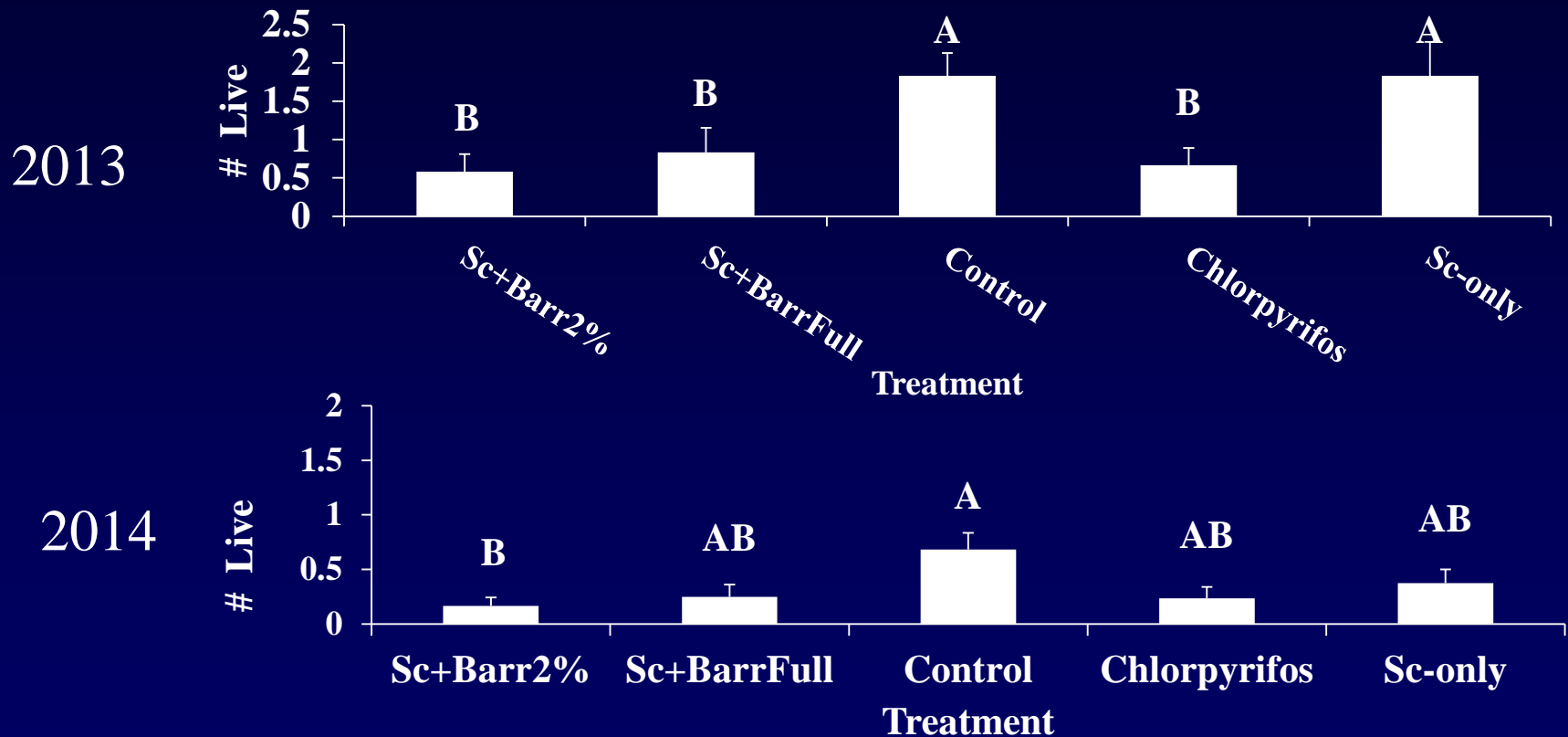
- Barricade at 1 or 2% protected the nematodes from UV & desiccation

## Fig. 6. Effects of Sunscreen Adjuvants on Barricade Formulation



- Barricade protected the nematodes, and the sunscreens improved the effect

**Fig. 7. Survival of Lesser Peachtree Borer after Applications of Nematodes (Sc) or Chlorpyrifos**



- Sc with Barricade gel (Barr) suppressed the pest as well as chlorpyrifos; a single application with 2% Barricade & Sc was highly effective