Soil Technologies Corp.
Research and Development Department

Research Report

Title: Chinch Bug Control in Turfgrass

Location: Council, NC USA

Principal Investigators: Rick L. Brandenburg, Ph.D.

Crop: Saint Augustine grass, (*Stenotaphrum secundatum*)

Date: Summer 2021

Abstract:
The purpose of this trial was to evaluate the efficacy of Armorex[1] in controlling southern chinch bug (*Blissius insularis*) in turfgrass compared to conventional insecticide treatment, Aloft[2]. Turfgrass plots were sprayed twice in August and chinch bugs were sampled 0, 7, 14, 21 and 29 days after treatments were applied.

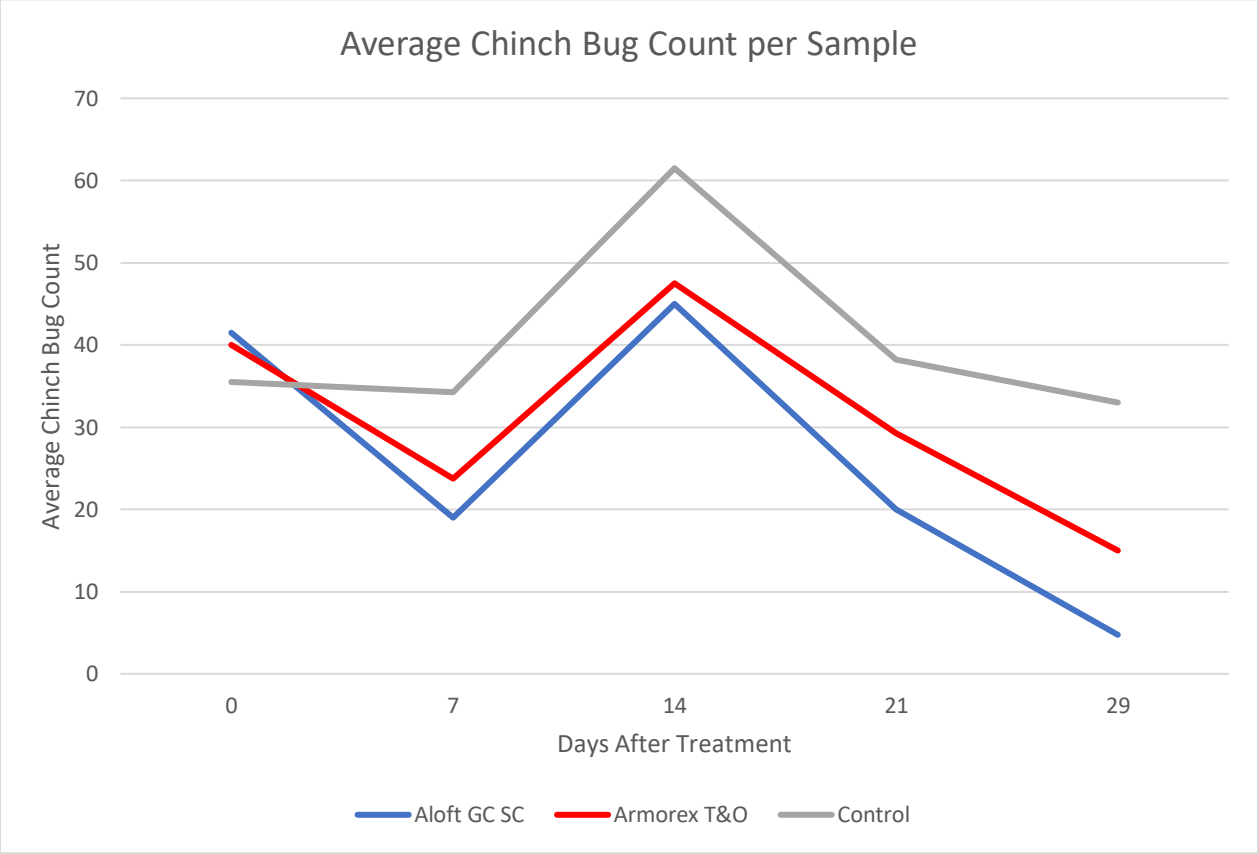
Methods:
Using randomized complete block design, 5x5 ft plots were established using four replications per treatment group.

Treatments were applied using a CO2 backpack sprayer on August 9 and again on August 30. Plots were sampled 0, 7, 14, 21 and 29 days after treatments were applied.

[1]Armorex is an OMRI listed, minimum risk pesticide manufactured by Soil Technologies Corp. in Fairfield, Iowa
[2]Aloft is an insecticide composed of Clothianidin (CAS # 210880-92-5) and Bifenthrin (CAS # 82657-04-03)

Results:
The average number of adult and nymph chinch bugs are demonstrated in the below graph.

Graph 1.



Conclusions:

The two applications of Armorex at a 5.88 fl oz/A rate provided good control of southern chinch bugs compared to an industry standard Aloft.