

FarmForest Research, Dr. James Coupland, Ontario, Canada

BioWorks Products Included in Trial

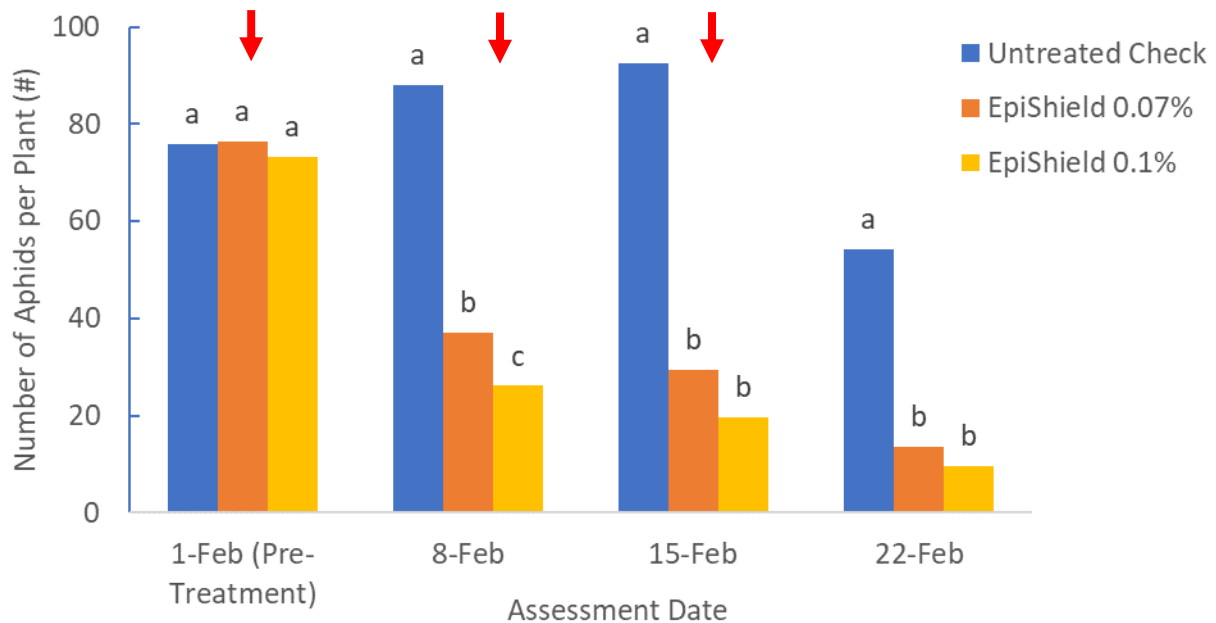
EpiShield™

Summary:

EpiShield controlled cannabis aphids on greenhouse grown hemp.

| Treatment | Rate |
|-----------------|-----------|
| Untreated Check | - |
| EpiShield | 0.07% V/V |
| EpiShield | 0.1% V/V |

| Method Summary | |
|--------------------|---|
| Crop | Cannabis sp. |
| Variety | autoflower |
| Location | Ontario Canada - Greenhouse |
| Pest | Cannabis Aphid (<i>Phorodon cannabis</i>) |
| Trial Design | Randomized Complete Block |
| Application Dates | 2/1/2023 |
| | 2/8/2023 |
| | 2/15/2023 |
| Application Method | Foliar Spray |



Average number of cannabis aphids per plant. Treatments were applied on day 0, 7, and 14 as indicated by arrows.

Result Summary

- EpiShield controlled cannabis aphid populations in hemp.
- EpiShield at 0.07% killed 74.7% of cannabis aphids after 3 treatments.
- EpiShield at 0.1% killed 81.9% of cannabis aphids after 3 treatments.
- No phytotoxicity was observed in any treatments during the study.
- EpiShield provided >80% control of cannabis aphids with a 10x lower rates than traditional horticultural mineral oil products.

Recommendations from Data

- Apply EpiShield at 0.07% (9 fl oz/100 gallons) for control of low to moderate pressure of cannabis aphids on hemp.
- Apply EpiShield at 0.1% (12 fl oz/100 gallons) for control of high infestation pressure of cannabis aphids on hemp.
- Apply EpiShield as a fine to medium spray to full coverage but not the point of run off.
- EpiShield can be used in a program to control cannabis aphids as well as other damaging arthropods.