



Soil Technologies Corp.

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ARMOREX and PLANT DEFENSE for Control of Russet Mites on Field Grown Hemp

Location: Eastern Colorado, USA. East edge of east side of field

Soil Type: Sandy

Crop: Hemp

Plant distance: 30 inches between rows and 32 inches between plants

Date of clones planting: 5/8/18

Harvest date and growth stage of crop: Harvest date of plants was 10/18/18.

Plant stage at the time of harvest was end of flowering & starting to die due to end of growing season.
(Plants took a freeze on 10/15/18.)

Crop stage at application: Early Flower during entire application

Products used: Soil Tech's, ARMOREX,
Soil Tech's PLANT DEFENSE, and
Central Coast Garden Products' GREEN CLEANER*

Dates of application: First application was on September 5, 2018.

A new application was applied every 3 days after. (September 8, 11, 14, 17, last application on 20th.)

Treated plants: 6 plants treated with Armorex, 6 plants treated with Plant Defense, remainder treated with Green Cleaner.

Dilution rate: 1:100

Area dosage: Estimated 20 linear foot per 1 gallon of tank mix

Sprayer: Craftsman backpack sprayer.

RESULTS

Efficacy on a scale of 1 – 10, with 1 = barely effective and 10 = 100% kill rate.

- Armorex: 9
- Plant Defense: 7
- Green Cleaner: 4

Additional Notes: When running our R&D trial with Armorex and Plant Defense, we choose 6 plants for each product in a single row on the east edge of the field. We grouped plants together in groups of 2. The mixture was made based on label ratio. The mixture ratio was the same for every application type. Only the amount of mixture applied was changed for the trial.

*Soil Tech Corp. is not affiliated with, nor does it represent Green Cleaner in any way.

- The first 2 plants received a 'light' spray of the mixture. The light spray was very close to mimicking a poorly working boom sprayer (50% coverage).
- The next 2 plants received a 'medium' spray. This was close to a properly functioning boom sprayer (95% coverage).
- The last 2 plants received a 'heavy' spray, mimicking an over-application of the mixture. (100% coverage with excess mixture dripping off plants).

ARMOREX

- Light spray: Not effective. Estimating 60% survival of russet mites
- Medium spray: effective. Estimating 99% kill of russet mites
- Heavy spray: effective. Estimating 99% kill of russet mites.

PLANT DEFENSE

- Light spray: Not effective. Estimating 80% survival of russet mites
- Medium spray: effective. Estimating 80% kill of russet mites.
- Heavy Spray: effective. Estimating 90% kill of russet mites.

GREEN CLEANER

- When used per label direction: 50% kill of russet mites.