

EARTH'S  ALLY[®] **PRO**

3-IN-1
PLANT SPRAY
MITICIDE, INSECTICIDE & FUNGICIDE



Efficacy Trials



LETTUCE APHID GREENHOUSE TRIAL

Materials & Methods

Trial: Third-party research lab, Collins Agricultural Consultants in Canby, OR 2021

Crop: Romaine lettuce (*Lactuca* sp.) raised in pots with an 18" x 18" plot size and a canopy size of 3 ft. x 3 ft.

Infestation: Trial site had a naturally occurring population of Lettuce Aphid (*nasonovia ribisnigri*)

Treatment rate:

- 1% v/v or 40 mL per gallon (curative)
- 5 replicated plots per treatment

Application method:

- Foliar spray
- Single nozzle backpack sprayer with a low volume air induction nozzle

Treatment dates: Weekly spray on Jul-29, Aug-6, 2021

Spray pressure: 40 psi

Data collection: Aphid populations (visual counts) 3 days after each treatment

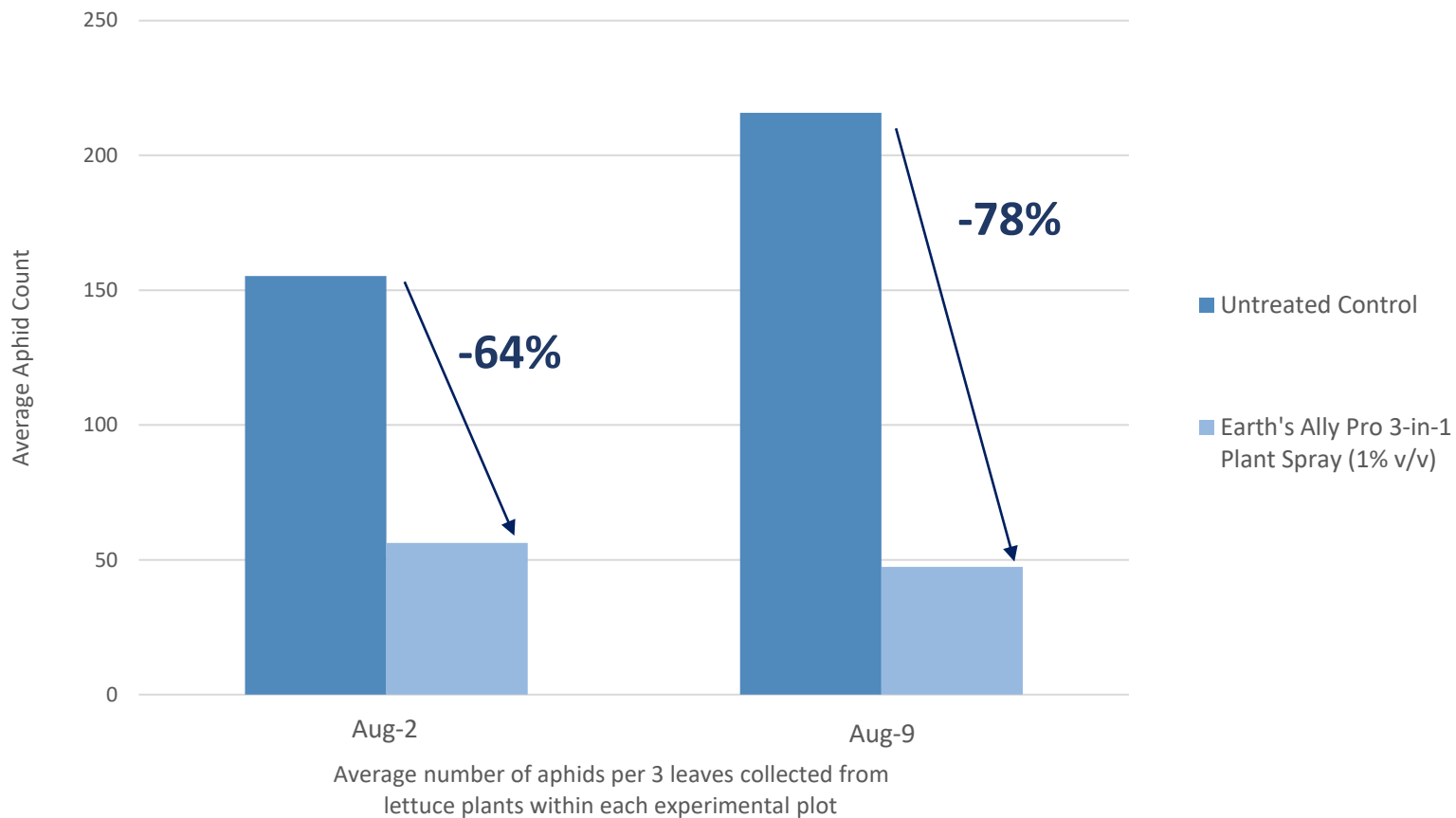
Results:

- 78% control of infestation compared to untreated control after 2 applications during a 2-week period
- No phytotoxicity observed

LETTUCE APHID GREENHOUSE TRIAL

Results

Aphid Control Up To 78% After Second Treatment



POWDERY MILDEW GREENHOUSE TRIAL

Materials & Methods

Trial: Third-party research lab, Collins Agricultural Consultants in Canby, OR 2021

Crop: “Moneymaker” tomato (*Solanum lycopersicum* var. *cera*) raised in pots with a 3 ft. x 3 ft. plot size

Infestation: Trial site had natural occurrence of Powdery Mildew (*Oidiopsis* sp.) supplemented with a larger disease infested plant in the same greenhouse. All plants had an average of between 9-11% disease severity prior to trial initiation.

Treatment rate:

- 1% v/v or 40 mL per gallon (curative)
- 5 replicated plots per treatment

Application method:

- Foliar spray
- Single nozzle backpack sprayer with a fine droplet flat fan nozzle

Treatment Dates: Weekly spray on Sept-6, Sept-13, Sept-20, Sept-27 2021

Spray Pressure: 40 psi

Data collection: Disease severity and phytotoxicity rated prior to treatment

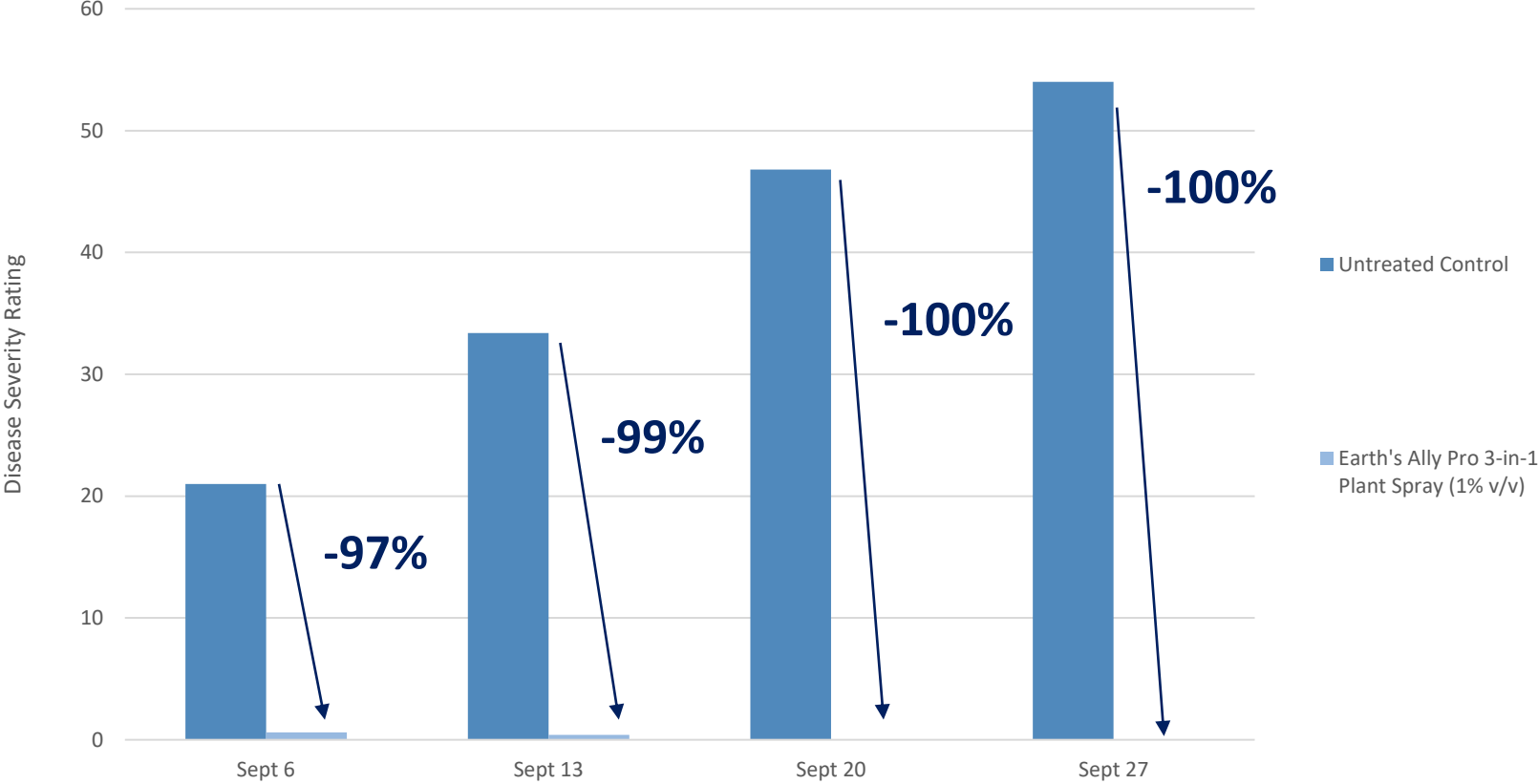
Results:

- 100% disease eradication and prevention after 4 applications during a 28-day period
- Untreated control had an average of ~55% disease severity by final assessment
- Earth’s Ally both preventative and curative treatment
- No phytotoxicity observed (blossoms or fruit)

POWDERY MILDEW GREENHOUSE TRIAL

Results

Complete Powdery Mildew Control After 3 Treatments



Average disease severity per tomato plant within each experimental plot



ADDITIONAL HEMP TRIAL DATA

Trial: Third-party research lab, Collins Agricultural Consultants in Canby, OR 2021

Results:

100% knockdown on spider mites and their eggs after 1 week, 1 application

	Average Number Adult Mites Per 3 Leaves		
	Before	After 1 day	After 1 week
Number of applications	0	1	1
Untreated Check	47.6	28.9	19.1
Earth's Ally Pro 3-in-1 Plant Spray	54.0	3.0	0.0

	Average Number Eggs Per 3 Leaves		
	Before	After 1 day	After 1 week
Number of applications	0	1	1
Untreated Check	31	24.6	24.2
Earth's Ally Pro 3-in-1 Plant Spray	27.0	9.8	0.0

99% mortality on aphids after 1 week, 1 application

	Average Number Aphids Per 3 Leaves		
	Before	After 1 day	After 1 Week
Number of applications	0	1	1
Untreated Check	24.2	13	22.8
Earth's Ally Pro 3-in-1 Plant Spray	19.6	2.6	0.2

93% control of powdery mildew versus untreated check after 1 month, 5 applications

	Percent Disease Severity			
	Before	After 1 day	After 2 Weeks	After 1 month
Number of applications	0	1	3	5
Untreated Check	16.8	20.2	39.6	94.6
Earth's Ally Pro 3-in-1 Plant Spray	17.8	12.8	10.6	7.0