

Terramera

RANGO™

Broad Range Control



Fungicide

Insecticide

Miticide

One Product, Triple Control

Fungicide • Insecticide • Miticide



Benefits

- Superior Emulsion & Stability Properties
- Excellent Mixing & Handling Qualities
- Protects a Wide Variety of Crops
- Zero-day Pre-harvest Interval
- 4-hour Re-entry Interval
- Essential Integrated Pest Management (IPM) Tool

Find out more about our field data results!



More About RANGO™



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Broad Range Control



Superior Stability

Proprietary inert chassis results in a premier formulation that is **more stable and stays in suspension for longer (48+ hours)**.



Multiple Modes of Action

Works four ways as an **antifeedant, insect repellent, growth regulator and fungal growth regulator**.



Improved Performance

Superior efficacy in controlling pests and diseases. Controls insects throughout their entire life-cycle.



Better Handling

Low freezing point and easy to mix, allowing for a better application.

For the full product label, please visit:
www.terrameraagriculture.com



RANGO™ is effective on a wide range of pests and diseases.

Effective against many pests and diseases including but not limited to:

Aphids:

- Cotton aphid
- Green peach aphid

Caterpillars & Moths:

- Armyworms
- Budworms
- Diamondback moth
- Leafrollers
- Loopers

Maggots:

- Onion maggot

Mealybugs:

- Citrus mealy bug

Mites:

- Red spider mites
- Two spotted spider mite

Thrips:

- Onion thrips
- Western flower thrips

Whiteflies:

- Cotton whitefly

- Greenhouse whitefly
- Silverleaf whitefly

Fungal Diseases:

Foliar:

- Alternaria
- Blight (early, late, leaf)
- Botrytis
- Downy mildew
- Powdery mildew

Soil:

- Fusarium oxysporum
- Rhizoctonia solani

RANGO™ is registered for use on a wide range of crops including but not limited to:

Fruits & Vegetables

- Apples
- Broccoli
- Lettuce
- Oranges
- Potato
- Spinach
- Squash
- Strawberries
- Tomato

Field & Forage Crops

- Alfalfa
- Canola
- Clover
- Corn
- Cotton
- Peanuts
- Rice
- Soybeans
- Wheat

Tree Nuts

- Almond
- Pecan
- Pistachio

Greenhouses

Herbs & Spices

Ornamentals

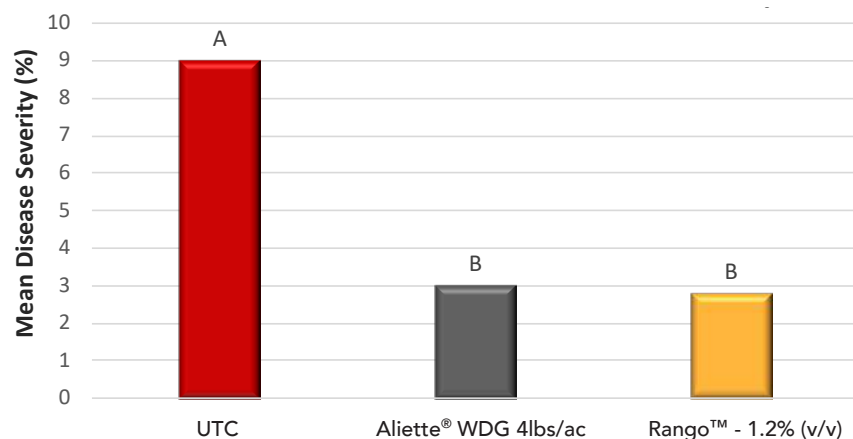
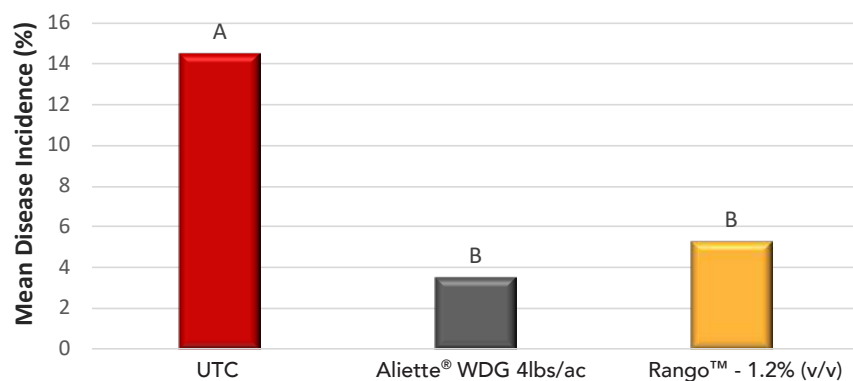


Want To Know More? Contact Us:
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www.TerrameraAgriculture.com

RANGO™ Field Data Results:



**Downy Mildew Trial - Spinach (*Renegade* var)
San Joaquin County, CA - Nov 2018**



4 applications: Oct 15, 23, 30 & Nov 6.
Evaluation date: Nov 16. Equipment: CO2 sprayer, 3 nozzles, 38 GPA.
Statistical Analysis JMP 14 Fisher LSD alpha=0.05

There were no statistical differences between RANGO™ and Aliette® in the mean disease severity or incidence ratings (Leaf %)

RANGO™ reduced the incidence and severity of Downy Mildew.

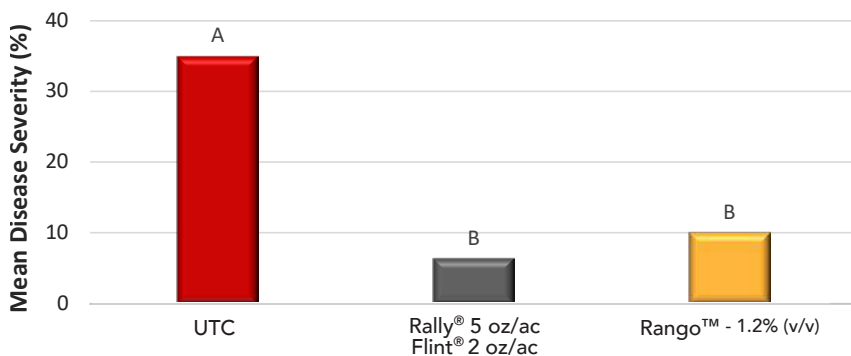


RANGO™ is a plant derived broad-spectrum biopesticide for the control of insects and diseases in organic and conventional vegetables, fruits, herbs, forage and row crops.

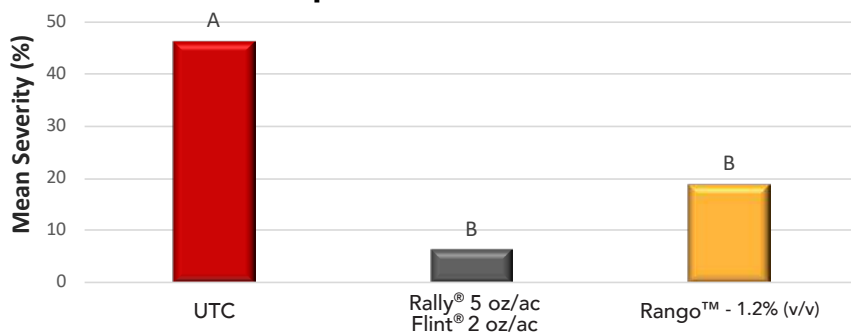


Rango™ is classified as a "NC" FRAC Code – No known resistance.

**Powdery Mildew Trial - Apples (*Gala* var)
Ephrata, WA - Jul 2018**



**Powdery Mildew Trial - Apples (*Braeburn* var)
Ephrata, WA - Jul 2018**



There were no statistical differences between RANGO™ and the program of Rally®/Flint®.

No crop phyto responses were observed in fruit or leaves from applications of RANGO™ in either variety.

6 applications: Apr 4, 13, 24, May 3, 14, 24.
Evaluation date: 60 days after last treatment. Equipment: Air blast conventional sprayer, 100 GPA.
Statistical Analysis JMP 14 Fisher LSD alpha=0.05

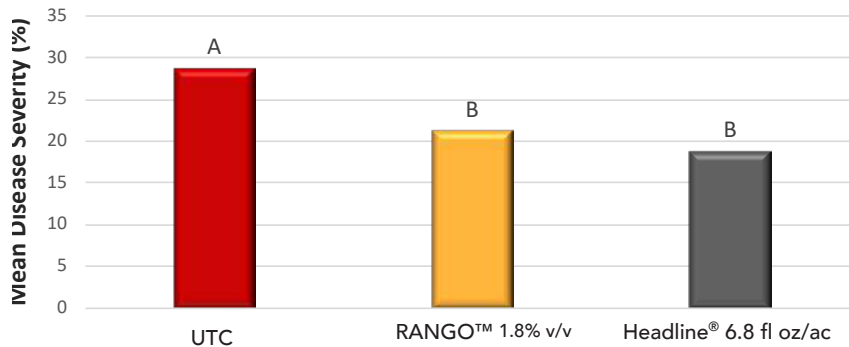


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RANGO™ Field Data Results:



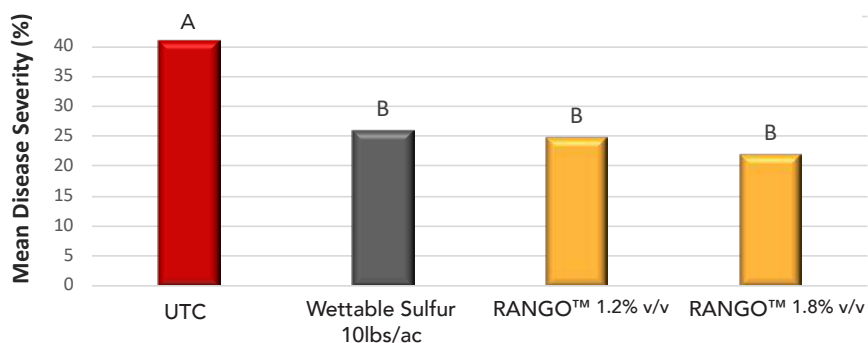
Septoria Leaf Blotch Trial - Wheat (Spring) PEI, Canada - Jul 2018



RANGO™ 2 applications: early head emergence & early flowering. Headline® 1 application: early head emergence.
Evaluation date: 14 days after early flowering application. Ground application at 21 GPA.
Statistical Analysis JMP 14 Fisher LSD alpha=0.05

There were no statistical differences in the mean disease severity (%) rating between RANGO™ and Headline®.

Powdery Mildew Trial - Tomato (Processing) San Joaquin County, CA - Sept 2018



5 applications: July 16, 26, Aug 6, 16, & 27.
Evaluation date: 25 days after last application. CO2 sprayer 3 nozzles, 35 GPA.
Statistical Analysis JMP 14 Fisher LSD alpha=0.05

There were no statistical differences in the mean disease severity rating between RANGO™ and wettable sulfur 25 days following the last application.

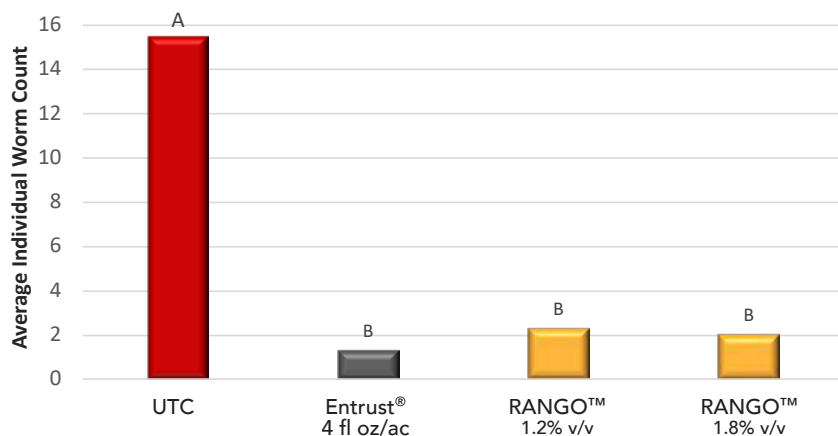
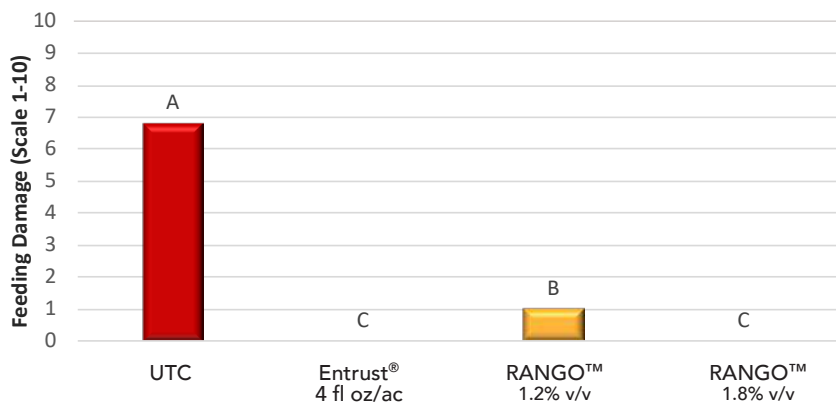


RANGO™ can be used in a single entity program or as a rotational partner with either organic or conventional fungicides to prevent resistance.



RANGO™ is OMRI approved and EPA-Registered.

**Insect (worms) Trial - Broccoli
San Joaquin County, CA - Oct 2018**



5 applications: Sept 18, 25, Oct 1, 9, & 16 - CO2 Sprayer, 3 nozzle 40 GPA.
Overall Feeding Damage Evaluation made 23 days after last application.
Average count all worms per plot made 10 days after final application.
Pest spectrum: cabbage looper, beet armyworm, diamondback moth, imported cabbage worm
Statistical Analysis JMP 14 Fisher LSD alpha=0.05

There were no statistical differences in feeding damage (%) between RANGO™ at 1.8% v/v and Entrust®

RANGO™ is the perfect rotational partner with Entrust® or Success® to prevent insecticide resistance.

RANGO™ also controls key insects including aphids, thrips and whiteflies.

Refer to the product label for list of crops, pests, and application information. Always read and follow label directions and precautions. RANGO™ is a registered trademark of Terramera, Inc. EPA Reg. No. 88760-10. All other brands are registered trademarks of their respective owners: Entrust® SC, Rally® 40WSP and Success® are registered trademarks of Dow AgroSciences LLC., Aliette® WDG and Flint® are registered trademarks of Bayer, Headline® is a registered trademark of BASF SE. The information in this sheet is not binding. Changes could be made without prior notice.

Terramera

RANGOTM
Broad Range Control



Superior Stability



Competitor 1

Clarified Hydrophobic
Extracted Neem Oil 70%



Competitor 2

Azadirachtin 3%



RANGOTM



Competitor 3

Azadirachtin 4.5%



Competitor 4

Margosa Oil 65.8%
Azadirachtin 0.7%

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