

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™



**Terramera**

# RANGO™

## 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](http://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**

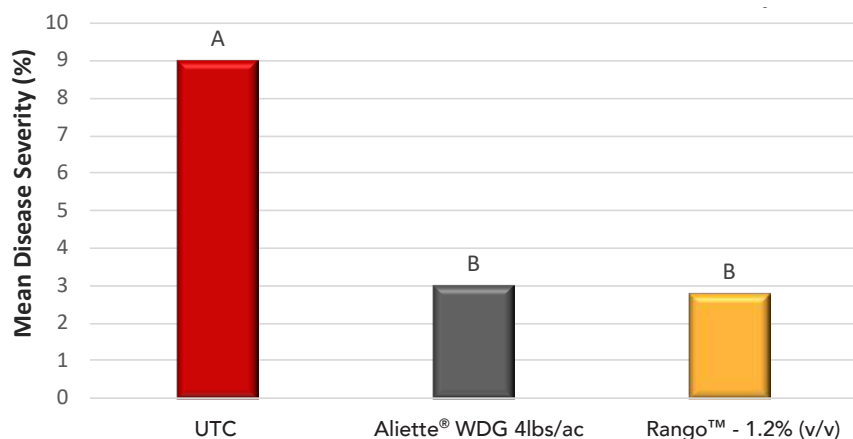
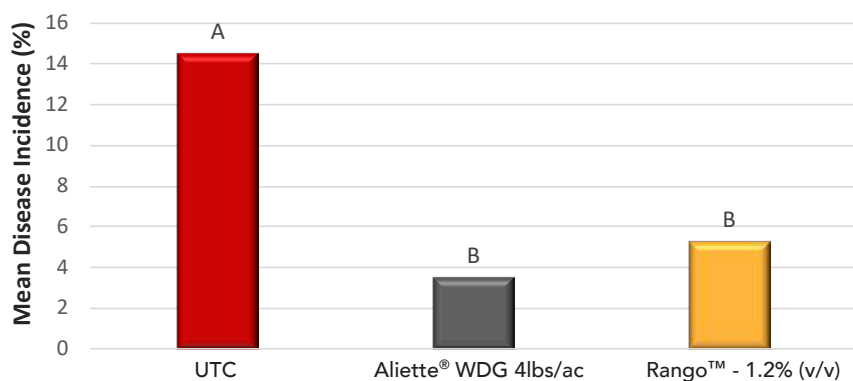


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# RANGO™ Field Data Results:



**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.

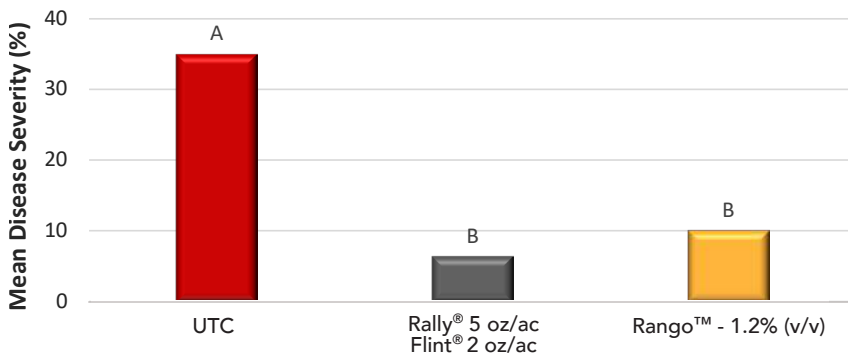


RANGO™ is a plant derived broad-spectrum biopesticide for the control of insects and diseases in organic and conventional vegetables, fruits, herbs, forage and row crops.

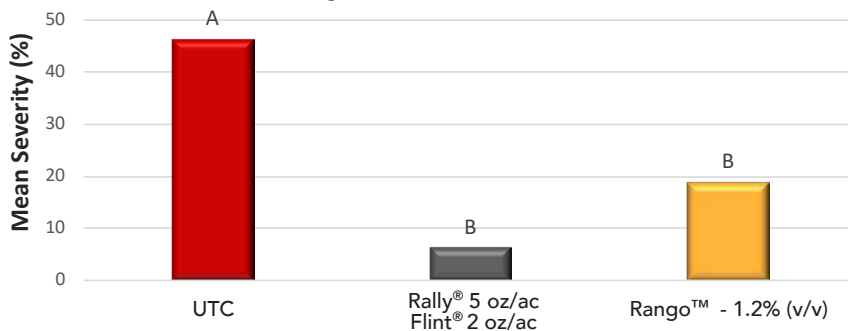


**Rango™ is classified as a "NC" FRAC Code – No known resistance.**

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



**Powdery Mildew Trial - Apples (*Braeburn var*)  
Ephra, 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

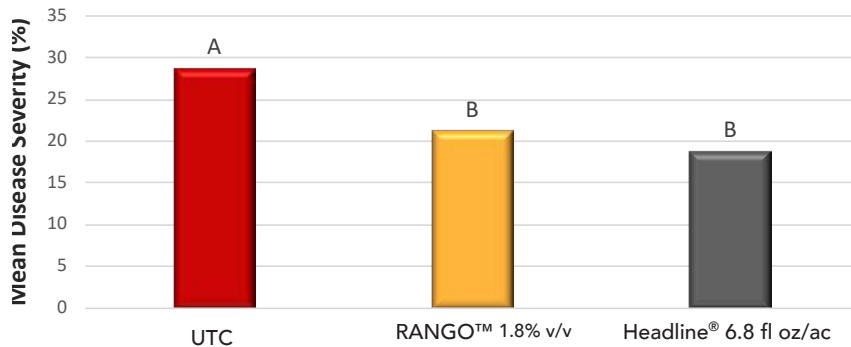


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# RANGO™ Field Data Results:



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



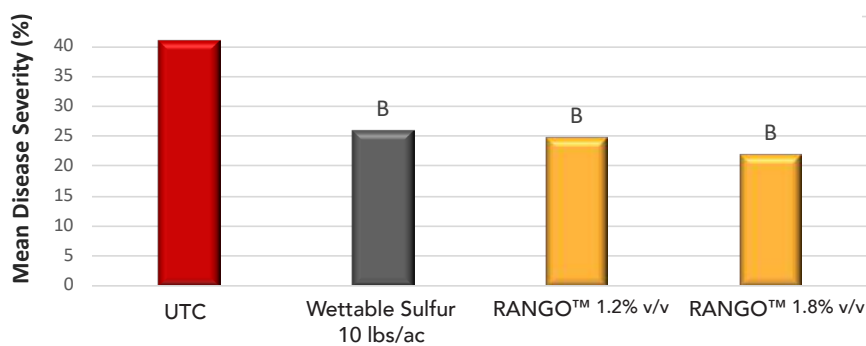
RANGO™ 2 applications: early head emergence & early flowering. Headline® 1 application: early head emergence.

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.

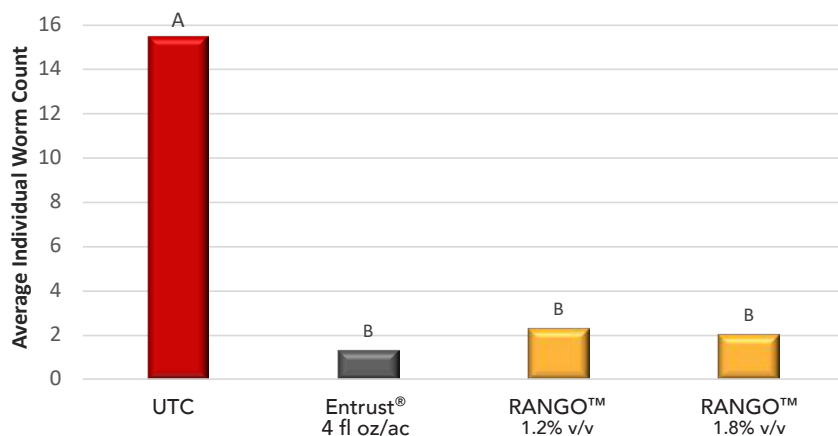
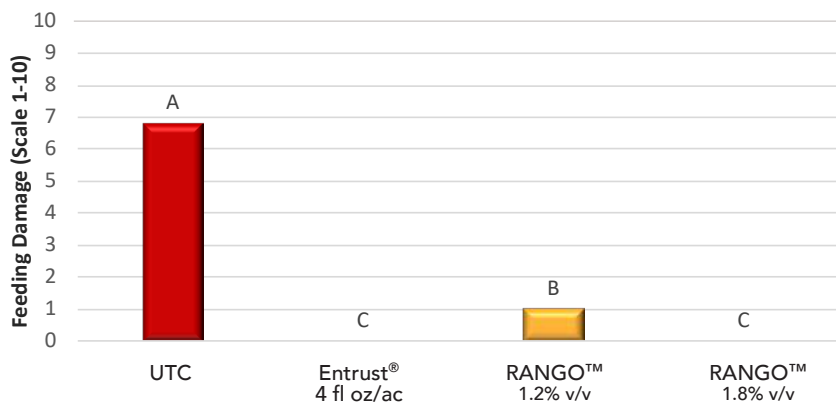


RANGO™ can be used in a single entity program or as a rotational partner with either organic or conventional fungicides to prevent resistance.



**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. The information in this sheet is not binding. Changes could be made without prior notice.

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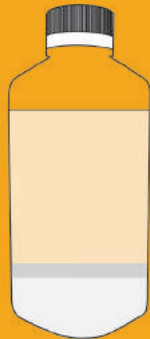
**RANGO**<sup>TM</sup>  
Broad Range Control

**= Superior Stability**



Competitor 1

Clarified Hydrophobic  
Extracted Neem Oil 70%



Competitor 2

Azadirachtin 3%



**RANGO**<sup>TM</sup>



Competitor 3

Azadirachtin 4.5%



Competitor 4

Margosa Oil 65.8%  
Azadirachtin 0.7%

## Contact Your Local Representative

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