

# ORGANIC JMS Stylet-Oil®

## Giving Growers A Clear Choice

- ✓ Organic or Conventional
- ✓ Insects and Disease
- ✓ Highest purity

Powdery Mildew      Mites  
Botrytis              Scale  
Erinose Mites        Thrips  
Mealy bug            Aphids



OMRI  
Listed



### Benefits:

- ✓ Powerful powdery mildew control in all temperatures- within seconds
- ✓ Excellent Erinose efficacy
- ✓ Soft on beneficials
- ✓ Proven crop safety - 6 years NZ vineyard use
- ✓ Easy to use and apply
- ✓ A "well oiled" sprayer!

### FEATURES

- Superior refined oil - no hydrocarbons or aromatic compounds
- Greater than 99% PURE "food grade quality" white mineral oil
- BioGro NZ (restricted use) certified
- Multi mode of action - fungicide and insecticide
- Superior durability & rainfastness to wettable sulphur
- Not temperature dependent - works 24 hours a day
- Potent powdery mildew control for up to 14 days - both protectant and eradicant
- Nil withholding period - vineyard use all season
- Organic JMS breaks down to CO<sub>2</sub> and water

### MODE OF ACTION

- As a fungicide
  - Destroys cell walls
  - Interferes with attachment of the organism to the host
  - Prevents sporulation\*
- As an insecticide
  - Smothers, blocking insect spiracles
  - Disrupts insect feeding and egg laying behaviour



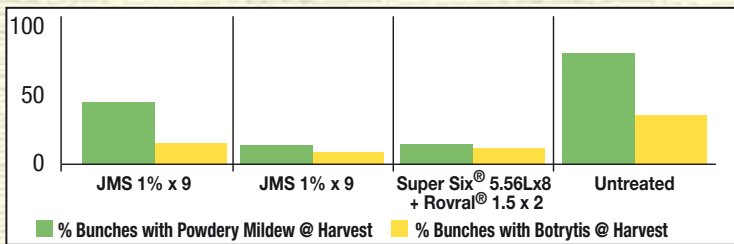
\*The anti-sporulant activity prevents the sporulation of mildew spores and stops disease spread. With the first few early season grape sprays it stops any flag leaf infection from over wintering disease in the buds spreading to other foliage.

**'POWERFUL ON POWDERY...' JMS Stylet Oil is rated a '10' as a powdery mildew eradicant verses a '4' for wettable sulphur sprays.** Dr Doug Gubler, U.C. Extension Plant Pathologist, U.C. Davis, California, USA.

**Etec**  
CROP SOLUTIONS

## Grape Powdery Mildew and Botrytis Control – Hawkes Bay

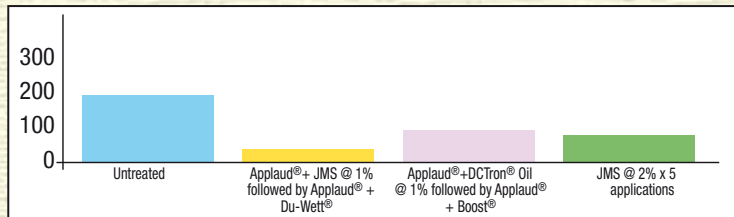
Geelen Research 1999 - 2000



## Grape Mealy Bug Control – Hawkes Bay

Number Mealy Bug per 50 Leaves

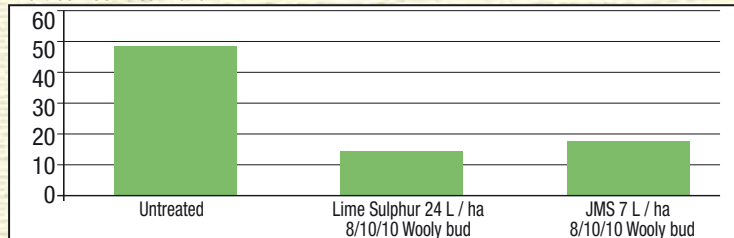
Geelen Research 2000 - 2001



## Erinose Mite Control – Nelson

Severity 25/11/10

Fruited Technical 2010

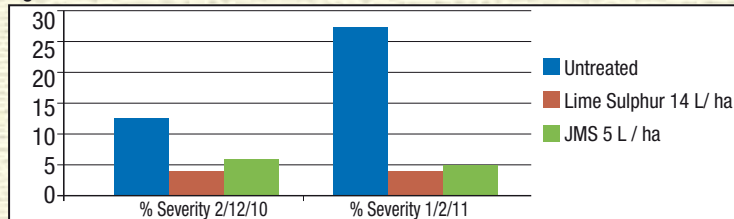


Note: Sulphur 4 – 5 kgs /ha was also applied twice (27/10 & 10/11) by grower over the trial area.

## Erinose Mite Control – Marlborough

Severity

Agrivet Services 2010



Note: JMS 5 L /ha treatment comprised of 2 applications (14/10 & 28/10) and also a Sulphur 4 kgs /ha applied (10/11). Lime Sulphur treatment was 1 application (13/10) and no further applications.

## Recommendations

Crop	Pest/Disease	Rate	Remarks
Grapes	Powdery mildew	2 L / 100 L	Apply on a 7 – 10 day schedule as required to maintain adequate control of powdery mildew. Use a minimum of 6 litres /ha with low water rates early season. For eradication of powdery mildew infection, apply as a high volume spray to run-off. A second application from the opposite direction within a few days maybe necessary with bunch infection. Repeat on a 7 – 10 day schedule as required to maintain adequate control of powdery mildew.
	Botrytis		Where disease conditions are high, or during periods of high risk (wet, humid weather) use a specific botrytis fungicide.
	Mealy Bug & Mites		Under low botrytis conditions through the season use Organic JMS Stylet Oil at 2 litres to 100 litres of water. Do not mix with captan, chlorothalonil, Euparen <sup>®</sup> or Euparen Multi <sup>®</sup> or fluazinam products
Apples, Pears & Stonefruit	San Jose Scale, European Red Mites & Aphids	Green tip to tight cluster: 1.5 - 2 L / 100 L of water Summer Application: 1 L / 100 L of water	To control high pest populations, apply with oil compatible insecticides. Do not apply to russet sensitive varieties later than early green tip. Do not apply to crops under stress from drought or frost. Monitor the advancement of green tip, especially on early varieties. On apples and pears any summer applications of Organic JMS Stylet Oil need to be applied after 21 days has passed since any previous Captan application. Captan applied after an Organic JMS Stylet Oil also requires a 21 day interval. Complete coverage is essential.
Avocados	Armoured Scale, Greenhouse Thrips, and Six-Spotted Mite.	1 L / 100 L of water.	Make two applications from late January to February, one month apart. If pest pressure is high, apply three sprays from January to April. May be applied pre-flowering; one or two applications in September to October. Do not apply to plants under stress.
Citrus	Scale insects, Aphids, Citrus Red Mite and Thrips	1 L / 100 L of water. Apply during spring and summer	Do not apply in temperatures over 32°C or to trees in hot dry weather when trees are suffering moisture stress. May be mixed with oil compatible insecticides to control high pest populations and mealy bug. Complete coverage is essential.
Kiwifruit	Greedy, Latania and Oleander scales.	1 L / 100 L of water.	<b>HAYWARD</b> – Use 1 litre per 100 litres of water (1%). <b>DO NOT</b> apply from 14 days after fruit set to 35 days after fruit set. The application of oil sprays after March increases the risk of fruit drop, and care is essential. Apply when conditions favour rapid drying on the plant. <b>ZESPRI™ GOLD [Hort10a]</b> – Use 1 litre per 100 litres of water (1%). Apply only up to 21 days after fruit set. <b>Notes:</b> Any applications of spraying oils should be in response to a demonstrated need and be in accordance with the Crop Protection Programmes for export kiwifruit. <b>Water Rates:</b> Refer to your local advisor. Do not exceed 1% dilution if concentrate spraying unless trials indicate good crop safety. Apply when conditions favour rapid drying on the plant. <b>NOTE:</b> DO NOT MIX with Success <sup>®</sup> , Entrust <sup>®</sup> or foliar feeds on Zespri Gold.
General use as an Organic Wetting Agent	All labeled crops	50 mls / 100 L	Organic JMS is an effective wetting agent for use with plant protection products used in Organic growing. Because of the diversity of products used in Organic growing, it is not possible to test all combinations that may be used. Test a small amount of new mixtures before general use.

# Getting the best out of

# ORGANIC JMS Stylet-Oil<sup>®</sup>

• **ORGANIC JMS STYLET-OIL** is a protectant and curative contact material. It is not systemic therefore requires thorough coverage. Apply in sufficient water volumes to ensure good coverage.

• The use of the oil spreading adjuvant Oilmate<sup>®</sup> can help to enhance coverage.



### Compatible chemicals

The following chemicals have been shown to be tank mix compatible with Stylet-Oil. *For all other mixtures it is advisable to test compatibility on a few plants first before committing to spraying the entire crop.*

Actara<sup>®</sup>, Applaud<sup>®</sup>, Bacillus thuringiensis, Confidor<sup>®</sup>, Copper, Diatomaceous earth, Diazinon, Du-Wett<sup>®</sup>, Flint<sup>®</sup>, Folicur<sup>®</sup>, Gemini<sup>®</sup>, Lannate<sup>®</sup>, Lorsban<sup>®</sup>, Malathion, Mancozeb, Mizar<sup>®</sup>, Orthene<sup>®</sup>, Pristine<sup>®</sup>, Pyganic<sup>®</sup>, Quintec<sup>®</sup>, Ridomil<sup>®</sup>, Rovral<sup>®</sup>, Rubigan<sup>®</sup>, Success<sup>®</sup>, Thiram, Tokuthion<sup>®</sup>.

### Incompatible chemicals

The following chemicals are incompatible with **ORGANIC JMS STYLET-OIL** and should not be sprayed within 14 days either side of **ORGANIC JMS STYLET-OIL**;

Bond<sup>®</sup> Xtra, captan, carbaryl, chlorothalonil, Euparen<sup>®</sup> multi, Filmstar<sup>®</sup>, Gem<sup>®</sup>, Kelthane, Nando<sup>®</sup>, Nu-Film-17<sup>®</sup>, Omite<sup>®</sup>, Pinnacle<sup>®</sup>, Rubigan<sup>®</sup>, conventional organosilicone surfactant spreader stickers, soaps / detergents and organic tin compound.

DO NOT apply SULPHUR sprays within 10 days either side of **ORGANIC JMS STYLET-OIL**.



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HSNO Approval Code HSR00710

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