

## FEIJOA EXPORT SPRAY PROGRAMME 2004-05

### REGISTERED MATERIALS

There are only a small number of registered insecticides and fungicides with an approved label claim for use on feijoas:

	<b>Rate/100ltr</b>	<b>To control</b>	<b>Withholding period For NZ Market</b>
<b>Insecticides</b>			
Diazinon 50% WP	100g	Greedy scale Leafroller Mealy bug	14 days
<b>Fungicides</b>			
Copper hydroxide products			
Agpro Cupric Hydroxide 350SC	200-280ml	Leaf Spot	Nil
Blue Shield DF	150-200g		
Champ DP	150-200g		
Headland Choice	200-280ml		
Kocide 2000DF	115-150g		
Kocide 2000LF	115-150ml		
Copper Oxychloride products			
Agpro Copper Oxychloride 800WP	300g	Leaf Spot	Nil
Copper Oxychloride 50%WP	300g		
Fruitfed Copper Oxychloride	300g		

Source: New Zealand Agrichemical Manual 2004.

Diazinon is not acceptable on export fruit and therefore can only be used from after harvest to the start of flowering. The 14 day withholding period on the label pertains to the New Zealand Market.

Insecticides used to protect fruit must therefore be used as off label usage. Off label use is not illegal but the responsibility not to exceed maximum residue limits (MRLs) is that of the user. In the case of Bt products for leafroller control and all purpose spraying oil for control of sucking insects which have a nil withholding period, there is no residue risk.

## SUGGESTED SPRAY PROGRAMME FOR EXPORT FEIJOAS

Time	Material	Rate/100ltr	Purpose
Pre-blossom	Diazinon 50%WP	100g	General pest clean up. Add 1% of an all purpose spraying oil for improved control of scale insects and mealy bug.
Blossom	Bt product*	Label rate	Leafroller.
Post-blossom	Bt product	Label rate	Leafroller and repeat as necessary.
	All purpose spraying Oil**	1ltr	Scale insects, mealy bugs, thrips and repeat as necessary
	Copper hydroxide or Copper oxychloride	Label rate	Leaf spot if necessary.

\* Bt products with label claims for leafroller on other crops, and recommended rate per 100ltr:

Agree WDG	100g
Delfin WG	50g
Dipel DF	25-50g
Hortcare Bactur 48LC	150ml
Hortcare Bactur	50g

\*\* All purpose spraying oil products with label claims for use on other orchard crops and recommended rate per 100ltr:

		Crop(s) with label recommendations
BP Crop Oil	1ltr	Citrus
Caltex DC-Tron NR	1ltr	Citrus, kiwifruit
DC-Tron Plus	1ltr	Citrus, kiwifruit
Excel Oil	1ltr	Kiwifruit
JMS Stylet-Oil	2ltr	Grapes
Sunspray	1ltr	Apples, pears, stonefruit, citrus, grapes

Source: New Zealand Agrichemical Manual 2004

### Oil Sprays

Oils kill by smothering pests and blocking breathing apertures so good coverage is essential.

Oils should be applied under good drying conditions with plenty of time to dry before nightfall. There is a risk of causing fruit blushing, particularly in the final 6-8 weeks with using oil sprays. Oil should not be applied under hot (above 28<sup>0</sup>C) or dry soil conditions as this increases the risk.

### Pest Monitoring

Best results with Bts and all purpose spraying oils are obtained when good coverage is achieved and timing is optimal. Optimum timing is best achieved by routine applications of Bts for leafroller control before the end of the flowering season and again 2-3 weeks later and thereafter in conjunction with regular pest monitoring.

Details of pests and diseases of feijoas are described in "Feijoas – Origins, Cultivation and Uses" by Grant Thorp and Rod Bieleski available through bookshops.

In order not to incur residue problems on export fruit do not use products other than those on this programme between fruit set and harvest.

Prepared for the New Zealand Feijoa Growers Association by PR Sale, August 2004.

**Disclaimer**

“This programme has been designed after full consideration of the information available on pest and disease control and agrichemical residues. However, no assurance can be given that produce treated with materials in the above programme will be acceptable to all countries to which it may be exported.”