

Chemical Control of Gill's Mealybug- Trial Results: Corcoran 2013

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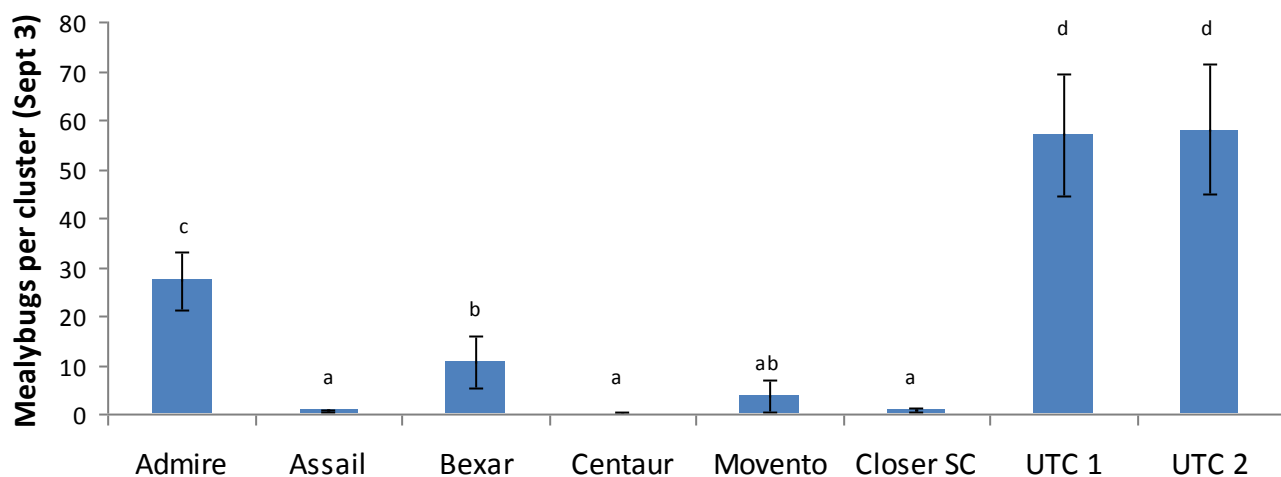
During 2013 we conducted a field trial in Corcoran, Tulare County, to evaluate registered and non-registered insecticides for their effects on Gill's mealybug in pistachios. The trial was located in a commercial pistachio orchard with an average of 1 mealybug per 10 clusters on 15 May 2013. Pesticide applications were made in May or early June. This newsletter shows the effects of those treatments on mealybug density approximately two weeks prior to harvest on 3 Sept 2013.

Treatment ¹	Chemical Class (IRAC Number)	Registered for Pistachios in 2013	Rate	Application Type	Application Date
Admire Pro	Neonicotinoid (4a)	Yes	14 fl oz	Soil	31 May
Assail 30SG	Neonicotinoid (4a)	Yes	8 oz	Foliar	7 Jun
Bexar	METI Inhibitor (21a)	No	27 fl oz	Foliar	7 Jun
Centaur	Chitin Inhibitor (16)	Yes	45 oz	Foliar	7 Jun
Closer SC	Sulfoxaflor (4c)	No	5.67 fl oz	Foliar	7 Jun
Movento 2SC	Tetronic Acid (23)	Yes	9 fl oz	Foliar	16 May

¹All foliar treatments were made using a water volume of 225 gal/acre with the addition of Dyne-Amic at 4 fl oz/100 gallons of water.

Results

- Assail, Centaur and Closer (not registered) applied in early June provided excellent control (0.2 to 0.7 mealybugs/cluster).
- Movento applied in mid May provided excellent control (3.8 mealybugs/cluster). The earlier timing was chosen to allow time for the active ingredient to become systemic before crawler hatch in early June.
- Bexar (not registered) provided approximately 80% control. This means that Bexar (whose primary use in pistachios is likely to be control of true bugs) can also help control mealybugs.
- Admire Pro reduced mealybugs by about 50%. While this level of control was not as high as other products, Admire Pro is the least expensive of the insecticides tested and there are no application costs (soil treatment).



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