

### The Walnut Husk Fly

“Black Walnuts” have been the main problem for many walnut producers for several years. Next to the bacterial disease *Xanthomonas*, infestation by the walnut husk fly (*Rhagoletis completa* and *Rh. suavis*) leads to shriveled and darkened kernels, increased mold growth, and lower yields. The nut kernel is badly nourished and of poor quality. The **combi-protec®** technology provides a simple and effective method to reduce infestation. One liter of **combi-protec®** is combined with a very small amount of an insecticide and applied with 20 liters bait mixture per hectare in form of coarse droplets. The effectiveness is comparable to a common surface treatment by spraying at full insecticide application rate.

Application rates for 20 liters of baitspray mixed with 1l **combi-protec®**

Insecticides	Active Ingredient	Rate	combi-protec®
Spintor® SC (Succes®4/Tracer®/Laser®)	Spinosad 480 g/l	5 ml	1 Liter
Exirel® SE	Cyantraniliprole 100 g/l	15 ml	1 Liter
Mospilan® SG (Supreme®SG/Gazelle®SG)	Acetamiprid 200 g/kg	25 g	1 Liter
Calypso® SC	Thiacloprid 480 g/l	25 ml	1 Liter

#### Time of application

Begin applications as soon as monitoring traps indicate the presence of flies and before oviposition begins. Repeat bait applications at least every 7 – 10 days depending on population pressure. Heavy rain within a day or two after application may reduce the residual effect of the bait and will require a repeat application. The larger the area treated at the same time, the better the control achieved will be.



#### Application Directions

The application is recommended as a bait treatment with a spray droplet size of 1 - 5 mm in diameter. For ground application, use equipment that will deliver a thin, solid stream for spot- spraying or venturi air induction nozzles and air-supply with a sprayer. For this, 1 - 2 nozzles per sprayer side are recommended. The bait droplets should be applied at least to 2/3 of the height of the tree's canopy.

#### Nozzle Recommendation for Sprayers

- Lechler IDK 120-01/ Agrotop Airmix 110-01 with air supply
- Spot Spray with modified Albuz ATR 80 (0,6 mm distance between nozzle body and insert) with or without air supply (see picture on the left side)

For further information, please visit

[www.combi-protec.com](http://www.combi-protec.com)



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