



Organic cup trap for the Spotted Wing Drosophila

Drosophila suzukii



Organic cup trap for *Drosophila suzukii*

The RIGA cup traps were developed specifically for monitoring and mass trapping of the Spotted Wing *Drosophila* (*Drosophila suzukii*).

The cup trap consists of a disposable plastic cup filled with an attractant fluid combined with a range of accessories required for simple and effective installation and rapid exchange of used cups. The disposable nature of the cups guarantees the consistent and high quality of the attractant. **The traps can be used both in conventional and organic fruit production.**

Attractant

Riga AG was supported in the development of an attractant with a proven appeal for *D.suzukii* by the Swiss agricultural research centre Agroscope, who performed various field tests on effectiveness of the attractant and best implementation practice for the traps. More information on www.drosophilasuzukii.agroscope.ch

Accessories for installation and use

Cup cover:	protects the attractant from dilution through rain
Support wire 20 cm:	used to position traps next to low level crops (e.g strawberries)
Support wire 90 cm:	used to position traps next to mid-level crops (e.g raspberries)
Suspension wire:	used to suspend the traps from guide wires or branches
Hole puncher with belt-clip:	used for clean & efficient perforation of the cup lid The resulting holes are adapted to the size of the fly.

All accessories are re-useable and have been developed for repeated use over several years.

Successful monitoring

The first cup traps should be placed in the vicinity of the fruit crop before the invasion has taken place. As soon as the first flies are observed in the traps or are reported in the region, and at the latest before the fruit starts changing colour, monitoring must be extended according to the installation plan.

Installation plan for the cup traps

Cup traps are placed around the perimeter of the crop to be protected in approximately the same height as the crop. Initially, a trap with cover should be placed every 2 metres. After 3 weeks, new traps should be placed between existing traps. The traps retain their effectiveness until all the liquid in the cup has dried up. The cup containers in installed traps should only be replaced once this has occurred.

Leading berry producers in Switzerland and the UK have used the cup traps as described above. In combination with careful crop hygiene, the traps were highly effective at preventing damage to their crop caused by *D.suzukii*.

Calculating initial cup trap requirements

1 ha = 100 m x 100 m = 400 perimeter
Cup traps required: 200
Approx. set-up time required: 3 hrs

4 ha = 100 x 400 m = 1000 perimeter
Cup traps required: 500
Approx. set-up time required: 8 hrs

Disposal

The used cup containers can safely be disposed of in waste incineration units.

Ordering

Price list and order form are available at www.becherfalle.ch