

## Scanning report [Andreas Naef, WBF]

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**Country:**

**NUTS 3 region(s)<sup>1</sup>:**

**WP no. and title:** 3 – Reduction in pesticides residues - stonefruits

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### Source materials and methodology

#### Quality guidelines for farmers

See scan report for pomefruits.

#### Decision support systems

Every second year, Agroscope, the Swiss centre for agricultural research, publishes recommendations for plant protection in commercial fruit production. Yearly, this booklet is supplemented by an updated list of plant protection products. These documents contain information about damage thresholds and effect of chemicals on beneficials and are widely used in practice and education. In addition, Agroscope and regional advisory services distribute up-to-date recommendations for plant protection by e-Mail, fax and mailing. Agroscope published factsheets with recommendations for control of *Drosophila suzukii* in stonefruits.

Agroscope provides several webpages with disease and pest modelling and monitoring information. Monitoring is mainly done by research farms and advisory services but rarely by producers.

[www.agrometeo.ch](http://www.agrometeo.ch) (apple scab forecasting, weather data, pest monitoring data, crop stage data)

[www.sopra.ch](http://www.sopra.ch) (pest forecasting)

[www.feuerbrand.ch](http://www.feuerbrand.ch) (fire blight forecasting)

[www.drosophilasuzukii.agroscope.ch](http://www.drosophilasuzukii.agroscope.ch) (D. suzukii monitoring, factsheets)

Sources:

Kuske S., Naef A., Holliger E., Kuster T., Perren S., Werthmüller J., Linder C., Dubuis P.-H., Kehrli P., Bohren C. 2016: Flugschrift Nr. 122 - Pflanzenschutzempfehlungen für den Erwerbsobstbau 2016/2017. Ed. Agroscope, 68 p.

Kuske S., Naef A., Holliger E., Kuster T., Perren S., Werthmüller J., Linder C., Dubuis P.-H., Kehrli P., Bohren C. 2016: Flugschrift Nr. 122 (Aktualisierte Beilage): Empfohlene Pflanzenschutzmittel für den Erwerbsobstbau 2016. Ed. Agroscope, 23 p.

#### Bio-control:

Agroscope tested an 'attract and kill' approach with protein bait Combi-protec to control spotted wing drosophila on large cherry trees for industrial fruits and on plum trees. The control was not satisfying yet.

Source: Personal communication S. Kuske

#### Physical Barriers:

Agroscope started trials with exclusion netting on cherries mainly to replace the withdrawn insecticide dimethoate used to control the cherry fruit fly. Despite of promising results, this method was rarely implemented by producers because of higher costs. But, the recent invasion of spotted wing drosophila and the limited possibilities of chemical control, has changed the mind of producers. Exclusion netting in combination with monitoring by traps and spinosad treatments is used by many table cherry producers now.

<sup>1</sup> Please see [ec.europa.eu/eurostat/ramon/nomenclatures/](http://ec.europa.eu/eurostat/ramon/nomenclatures/) for details on NUTS regions, level 3

However, a reduction of residues is questionable, because additional treatments against the new pest may result into additional residues.

Sources:

Kuske S., Kaiser L., Razavi E., Fataar S., Schwizer T., Mühlentz I., Mazzi D. 2015: Netze gegen die Kirschessigfliege. Obstbau. 4, 238-242.

### **Best practice findings**

D. suzukii: exclusion netting is widely used in table cherry production.

See also scan report for pomefruits.