

Anilinopyrimidines
Working Group

FRAC
FUNGICIDE RESISTANCE
ACTION COMMITTEE

Anilinopyrimidines (AP's) Working Group

Meeting on November 30, 2010, 8:30 am – 12:00 am

Protocol of the discussions and use recommendations of the AP Working Group of the Fungicide Resistance Action Committee (FRAC)

Participants

BASF	Randall Gold Gerd Stammler
Bayer CropScience	<u>Helene Lachaise</u> (via Telco) Lino Miguel Dias
KI Chemical	Makiichi Takagaki Satoshi Usami
Syngenta	Duncan McKenzie Helge Sierotzki

Venue:

Lindner Hotel & Residence Main Plaza, Frankfurt, Germany

1. Monitoring Results 2010 (FRAC members)

1.1 Botrytis results

Vineyards

(Bayer CropScience, Syngenta, BASF, KI Chemical)

Sensitivity monitoring was carried out in Australia, Austria, Italy, France, Spain and Germany in commercial vineyards. Available data to date (2010), show that the frequency of resistant isolates continues to remain low.

Products, applied according to the FRAC-AP guidelines in grape spray programs, maintained very good performance in the field.

Strawberries (Syngenta, BASF)

Sensitivity monitoring was carried out in Austria, Germany, Poland, Belgium, UK and Spain from commercial locations. Data from 2010 show that the frequency of resistant isolates is variable, fluctuating from field to field, ranging from zero to high.

Products, applied according to the FRAC-AP guidelines in strawberry spray programs, provided good control in most commercial situations.

Evidence from field and laboratory trials has shown that there is a medium resistance risk of *Botrytis* to APs. The fact that resistant isolates can be found in commercial sites, albeit at low levels, reinforces the importance of strict adherence to the FRAC-AP guidelines to control *Botrytis*.

1.2. Venturia results (BASF, Syngenta)

Monitoring carried out in Europe during 2010 did not show any further spread and increase in frequency of resistance detected compared to 2009.

Evidence from previous field and laboratory trials has shown that there is a medium resistance risk of *Venturia* to APs. The fact that resistant isolates can be found in commercial orchards reinforces the importance of strict adherence to the FRAC-AP guidelines to control *Venturia*.

In 2010, AP-containing spray programs continued to show good performance in commercial orchards.

2. Use Recommendations

The purpose of the use guidelines for AP containing products is to maintain the sensitivity in the target pathogens and to prevent crop losses due to resistant pathogen populations

2.1 General AP's Guidelines (all crops)

Where different AP-containing products are used in one season, the cumulative number of applications with cyprodinil-, pyrimethanil- or mepanipyrim-containing products must not exceed the maxima as mentioned below.

The use recommendations were reviewed during the meeting on November 30th, 2010.

The guidelines for the use of AP fungicides against *Botrytis* grey mould were not changed on account of the stable situation recorded in the monitoring studies.

The *Venturia* guidelines have not been changed.

2.2 Botrytis Guidelines

- Where two treatments are made per season, the number of applications of AP-containing products is limited to one.
 - In situations where up to six Botrytis treatments are made per crop and season, a maximum of two applications with AP-containing products are recommended.
 - In specific situations where seven or more Botrytis treatments are required per crop and season, a maximum of three applications with AP-containing products is recommended.
 - For specific crops and products, follow use recommendations of individual companies.
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2.3 Venturia Guidelines

- Apply a maximum of four AP-containing products per season.
 - In locations where resistance has been reported, use APs only in mixture with an effective non cross resistant scab fungicide.
 - Individual products should always be used at recommended dose rates and during the period when they are most effective.
 - Curative use only in conjunction with reliable scab warning systems.
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2.4. Communication plans

The above Web Pages will serve as the main communication vehicle for the group.

Next meeting: December 6th 2011
Venue: Frankfurt