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INTRODUCTION

The anilinopyrimidines (APs) are a group of fungicides highly active against a broad range of fungi. Commercialised APs include cyprodinil, pyrimethanil and mepanipyrim. The mode of action includes inhibition of methionine biosynthesis and secretion of hydrolytic enzymes. APs are cross-resistant, but show no cross-resistance with other fungicide groups.

The FRAC-AP group discusses the sensitivity situation and use guidelines for control of *Botrytis* and *Venturia*.

The use of APs for control of Black Sigatoka is included in the FRAC banana working group.

http://frac.info/frac/work/work_bana.htm

Update following the latest FRAC-AP meeting held on November 30th, 2007:

The current sensitivity status of *Botrytis* in vines and strawberries as well as the status of *Venturia* in apple was discussed.

Botrytis:

Vineyards:

Disease pressure in commercial vineyards in Europe was moderate whereas it was low in Australia and New Zealand in 2007.

Sensitivity monitoring was carried out in France, Spain, Portugal, Germany, New Zealand and Australia in commercial vineyards. Available data to date (2007), from France, Germany, New Zealand and Australia show that the frequency of resistant isolates continues to remain low. No resistant isolates were detected in Spain and Portugal

Strawberries:

Disease pressure in commercial sites in Europe during 2007 was variable, ranging from low to high depending on location.

Sensitivity monitoring was carried out in Germany, UK and Spain in commercial sites. Data from 2007 show that the frequency of resistant isolates is low to moderate.

Products, applied according to the FRAC-AP guidelines for both crops, maintained very good performance in the field after many years of commercial use.

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*.

Venturia:

Low to moderate disease pressure was present throughout the season in commercial orchards in Europe in 2007.

Sensitivity monitoring in commercial orchards was carried out in Europe. Resistant isolates were found at low to moderate frequency. Samples showing resistance were detected in Germany, France, Italy, Greece,

Portugal, UK, and Switzerland. No resistance was detected in Russia, Spain and Serbia Montenegro.

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 orchard reinforces the importance of strict adherence to the FRAC-AP guidelines to control *Venturia*.

In 2007, AP-containing spray programmes continued to show good performance in commercial orchards.

General Guidelines

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 were modified due to detection of resistance in an increased number of countries in Europe.

Guidelines for the use of AP containing products

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 the emergence of resistant pathogen populations.

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 guidelines were reviewed during the meeting on November 30th, 2007.

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.

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 scab fungicide.

Individual products should always be used at recommended dose rates and during the period when they are most effective.

Curative use is only recommended in conjunction with reliable scab warning systems.

Communication plan

- ☞ Recommended methods for AP fungicide sensitivity testing are available on the FRAC web site.
- ☞ 2008 meeting will be held Tuesday the 2nd of December.

Contact

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