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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 FRAC banana working group.

http://www.frac.info/WG_Bananas/bananas_wg.html

Update following the latest FRAC-AP meeting held on December 06th, 2004:

The current sensitivity status of *Botrytis* in vines and *Venturia* in apple was discussed.

***Botrytis*:**

Normal disease pressure was present at commercial vineyards in Europe and Australia in 2004.

Sensitivity monitoring in commercial vineyards was carried out in Europe and Australia. The frequency of less-sensitive isolates remains low in 2004.

Products, applied following the FRAC-AP guidelines, continue to show very good performance in the field, after more than 10 years of commercial use.

Nevertheless, evidence from previous field and laboratory trials has shown that there is a medium resistance risk of *Botrytis* to APs. The fact that less sensitive isolates

can be found in commercial vineyards, albeit at very low levels, reinforces the importance to adhere strictly to the AP FRAC guidelines to control *Botrytis*.

Venturia:

Moderate disease pressure was present especially during the early season at commercial orchards in Europe in 2004.

Sensitivity monitoring in commercial orchards was carried out in Europe. Resistant isolates were found at low frequency. The field performance of spray programmes at these locations was not affected.

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, albeit at very low levels, reinforces the importance to adhere strictly to the AP FRAC guidelines to control *Venturia*.

In 2004, 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 mold and *Venturia* apple scab were not changed on account of the stable situation recorded in the monitoring studies.

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.

The guidelines were reviewed during the meeting on December 06th, 2004 and no changes were considered to be necessary.

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 anilinopyrimidine-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 anilinopyrimidine containing products is recommended.

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

For specific crops and products, follow use recommendations of individual companies.

Venturia Guidelines

Against *Venturia*, AP solo products can be used to a maximum of four times per season.

Where spray programmes include AP-containing mixtures, the maximum is five treatments with AP-containing products per season. The mixture partner must be an effective scab fungicide.

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

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

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

Contact

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