Field performance and product recommendations

Ewald Kappes and Fritz Huggenberger
Syngenta Crop Protection, Basel, CH
Efficacy against foliar blight
REVUS 150 g/ha vs. MZ 1600 g/ha
REVUS 150 g/ha vs. DMM + MZ 180+1200 g/ha
REVUS 150 g/ha vs. CMX + MZ 90+1300 g/ha
Development Trial – CH 2006

% Foliar infection (severity)

Days after first treatment

Untreated

Mangozeb 1500

Cymoxanil+MZ 120+1395

Benthiavalicarb+MZ 25+1400

Zoxamid+MZ 149.4+1200

Cyazofamid 80+adj

Fluopicolide+Propamocarb 100+1000

Dimethomorph+MZ 180+1200

REVUS
Rainfastness (Indonesia)

% Efficacy

Potatoes

Tomatoes

Rain (mm)

300-350 mm rainfall between 1st treatment and last evaluation

Rainfastness (Indonesia)

% Efficacy

Potatoes

Tomatoes

Rain (mm)

300-350 mm rainfall between 1st treatment and last evaluation
Sporulating Disease (Upper surface inoculated)
FREDON/SRPV Nord Pas-de-Calais

% Sporulating Disease

<table>
<thead>
<tr>
<th></th>
<th>3DAA</th>
<th>5DAA</th>
<th>7DAA</th>
<th>3DAA</th>
<th>5DAA</th>
<th>7DAA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No irrigation</td>
<td><img src="chart1.png" alt="Bar Chart" /></td>
<td><img src="chart2.png" alt="Bar Chart" /></td>
<td><img src="chart3.png" alt="Bar Chart" /></td>
<td><img src="chart4.png" alt="Bar Chart" /></td>
<td><img src="chart5.png" alt="Bar Chart" /></td>
<td><img src="chart6.png" alt="Bar Chart" /></td>
</tr>
<tr>
<td>80 mm</td>
<td><img src="chart7.png" alt="Bar Chart" /></td>
<td><img src="chart8.png" alt="Bar Chart" /></td>
<td><img src="chart9.png" alt="Bar Chart" /></td>
<td><img src="chart10.png" alt="Bar Chart" /></td>
<td><img src="chart11.png" alt="Bar Chart" /></td>
<td><img src="chart12.png" alt="Bar Chart" /></td>
</tr>
</tbody>
</table>

* 48 mm natural precipitation 4DAA

Legend:
- Check
- MZ
- DMM+MZ
- CZF+Adj.
- ZXM+MZ
- MPD
Sporulating Disease (Lower surface inoculated)
FREDON/SRPV Nord Pas-de-Calais

![Graph showing % Sporulating Disease over time and irrigation levels]

- **Check**
- **MZ**
- **DMM+MZ**
- **CZF+Adj.**
- **ZXM+MZ**
- **MPD**

<table>
<thead>
<tr>
<th>Time</th>
<th>No irrigation</th>
<th>80 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>3DAA</td>
<td>48 mm natural precipitation 4DAA</td>
<td></td>
</tr>
<tr>
<td>5DAA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7DAA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Stem Blight
Control of Late Blight on Stems
Germany 2002-2004 – n=6

% Efficacy

- Mandipropamid 150 g/ha
- Dimethomorph + MZ 180 + 1200 g/ha
Yield and Tuber Blight
Foliar blight control, marketable yield and tuber infection in replicated large plot trials

Switzerland 2003-2006, n=5, 60m² plots

- Mandipropamid 150 g a.i./ha
- Cyazofamid 80 g a.i./ha+adj.
- Mancozeb 1500 g a.i./ha
Use Recommendations

Revus is used at 0.6 l/ha (150 g/ha mandipropamid)
Max. 6 applications per season
7 d spray interval
3 day preharvest interval
Best performance when Revus is used preventively
Revus can be used in tankmixture with all common potato fungicides, insecticides, wetters and mineral oils
Positioning

Rapid New Growth  Foliage & Early Tubers  Tuber Blight
Conclusions

Revus is a highly active potato blight product

Revus is extremely rainfast

Revus gives a long lasting protection of the potato crop

Revus shows a very robust performance

Revus gives excellent control foliar, stem and tuber blight, resulting in good yield increases