Herbicides Resistance Action Committee
EUROPEAN GROUP

Update Activities

EPPO Resistance Panel Meeting
Rothamstead, UK. 16/17 2015
EHRAC list of members

Adama
BASF
Bayer Crop Science
Cheminova
Dow
DuPont
Gowan
Monsanto
Nufarm
Syngenta

Heap. Web site:
http://www.weedscience.com

<table>
<thead>
<tr>
<th>Weeds</th>
<th>Herbicide</th>
<th>HRAC Group</th>
<th>Country</th>
<th>Mechanism</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAPRH</td>
<td>Metsulfuron &amp; florasulam</td>
<td>B/2</td>
<td>Belgium, Poland</td>
<td>TSR</td>
<td>2014</td>
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<tr>
<td>MATCH, MATIN</td>
<td>Tribenuron</td>
<td>B/2</td>
<td>Poland</td>
<td>unknown</td>
<td>2014</td>
</tr>
<tr>
<td>ALOMY</td>
<td>flupyrsulfuron, mesosulfuron, pyroxulam</td>
<td>B/2</td>
<td>Sweden</td>
<td>NTSR</td>
<td>2014</td>
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<tr>
<td>SORHA</td>
<td>nicosulfuron</td>
<td>B/2</td>
<td>Spain</td>
<td>TSR</td>
<td>2015</td>
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</tbody>
</table>
**Baltics & Nordics**: (Syngenta). NOBARAG met at the end of February 2015: monitoring of ALS resistance in *Apera* and *Capsella*.

**Benelux**: (Syngenta). The group has not met yet. Next meeting planned by end of 2015.

**France**: (Adama). The ‘COLUMA’ group met in April. The new resistance database (France only) was discussed. The database provides maps of resistance occurrence e.g. ALS resistance in ALOMY. At the moment input to the database has been provided by 10 regional working groups but more groups are required in order for the database to cover all of France. EHRAC asked if a link to the database could be obtained and circulated. A draft field testing method has been prepared by the CEB. GD is under review.

**Spain**: (DuPont). The University of Lleida is carrying out monitoring of ALS resistance on *Sorghum halepense* in corn. Industry has agreed to participate in this by providing seed samples and rhizomes. Sample sites will include random selected sites as well as efficacy failures. Information from the study is not expected until the end of 2015 although resistance cases are expected as they have already occurred in Italy.

**UK**: (DOW). WRAG last met in March. The main topic was the preparation of the WRAG guidance re. glyphosate resistance.
PPP re-authorization under article 43

If there is no change to the GAP then no assessment of efficacy is required except regarding the possible development of resistance or cross-resistance. Therefore, all that is required is:

1) a new resistance risk analysis.

2) GAP table including all uses to be renewed.
HRAC Meeting

HRAC recognize that has to do more and to update the web site and the content, urgently.

HRAC looking for a coordinator to help on the organization of the group and a content generator.

Requirements from US-EPA:
1) Detection, Recommendation follow up with the farmer if the recommendation works
2) Education package
3) Survey with farmers/users the use of the herbicides:
4) Best practices recommendations
5) Reports

Working Groups:
1) HPPD
2) Auxin: auxin resistance factsheets:
   1) Kochia, wild radish, poppies, wild mustard, lambsquaters, waterhemp
Thanks for your attention