Global joint field trials and data sharing

Daniel Kunkel
Action Items #4 Pilot Projects

- Explore the concept of a simultaneous JMPR and national review to facilitate the establishment of Codex MRLs prior to national MRLs
  - Continue Ongoing global joint reviews

- Investigate reasons for differences in national and Codex MRLs for specific pesticide/crop combination

- Create a crop specific database for a limited number of crops that contains a listing of use authorizations and residue trials

- Compare residues between regions to support the concept of global zoning
  - Global Residue Study
Objective:

- Address grower pest control needs with safe effective products in a matter that does not affect trade markets.
- To provide simultaneous submissions to both regulatory agencies (EPA and PMRA)
- Submissions reviewed and registrations approved in both countries at approximately the same time with harmonized tolerances/MRLs
Background:

- Canadian Horticultural Council/PMRA began joint field trials with IR-4 in 1996
- From 2003 to 2007, a total of 79 projects with 235 Canadian residue field trials and 549 US residue field trials were conducted by AAFC and IR-4
- Data including residue, efficacy and tolerance have been collected
- For 2008, 19 studies conducted jointly. IR-4 provided 137 field trials and Canada provided 47 residue trials and 62 efficacy trials.
- Makes up about 20% of IR-4 residue program
Progress Report:
  – Joint Review program to date
    • 18 submissions/Petitions completed
    • Currently 5 in review
    • 7 more submissions will be sent in 2009
  – Minor Use Joint Reviews results
    • Resulted in more than 62 new uses
    • Reduced timeframe
  – Other submissions/petitions will be submitted as “work share”
• IR-4 2009 JMPR reviews
  – IR-4 Submitted
    – Indoxacarb – stone fruit, cucurbits, Southern pea, mint, cranberry
    – Methoxyfenozide – citrus, root veggies, peas and beans, cucurbits, bushberry, cranberry, strawberry, peanut, tropical fruits
    – Buprofezin – Grape, fruiting veggies, pomefruit, stonefruit, berries, tropical fruits, bean, olive, almond, cucurbits
  – MFG Submitted
    – Spirodiclofen
    – fenbuconazole
Three Keys to Global Data sharing

• MRL Calculator
  – NAFTA, JMPR

• Proportionality Project
  – “Is the Resulting Residue Proportional to Application Rate?”

• Global Zoning
  – OECD Paper, EPA data mining, Global residue study
Comparable climates, Weeds
OBJECTIVE: The objective of this study is to test the influence of various geographic locations on the ultimate pesticide residues in field grown tomato when subjected to standardized application parameters.

- 22 Countries with 27 field trials
### 3. TRIAL ID/SITE DIRECTORS (Research Cooperators)

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<th>ID</th>
<th>Country</th>
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<tr>
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<td>CD-7</td>
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<td>Geoff Riddle</td>
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GLOBAL RESIDUE STUDY
11. APPLICATION TREATMENTS AND TIMING:
Make a single application of REVUS and ENDIGO when there are multiple full size tomato fruit on the plants. The tomatoes do not have to be red in color; they may be at the mature green stage. Do not apply if rainfall is imminent.

12. RESIDUE SAMPLE COLLECTION:
Residue samples will be collect at four times.
• Four Untreated samples from the untreated plot prior to pesticide application to the treated plot
• Four 0 day samples from treated plot within 1 hour of completion of the spraying.
• Four 24 hour samples from treated plot within 24 (+/- 2) hours of completion of spraying
• Four 72 hour samples from treated plot within 72 (+/- 2) hours of completion of spraying
• Link to protocol
• Link to video