

How MRLs Affect International Trade and Pest Management Options in the Field

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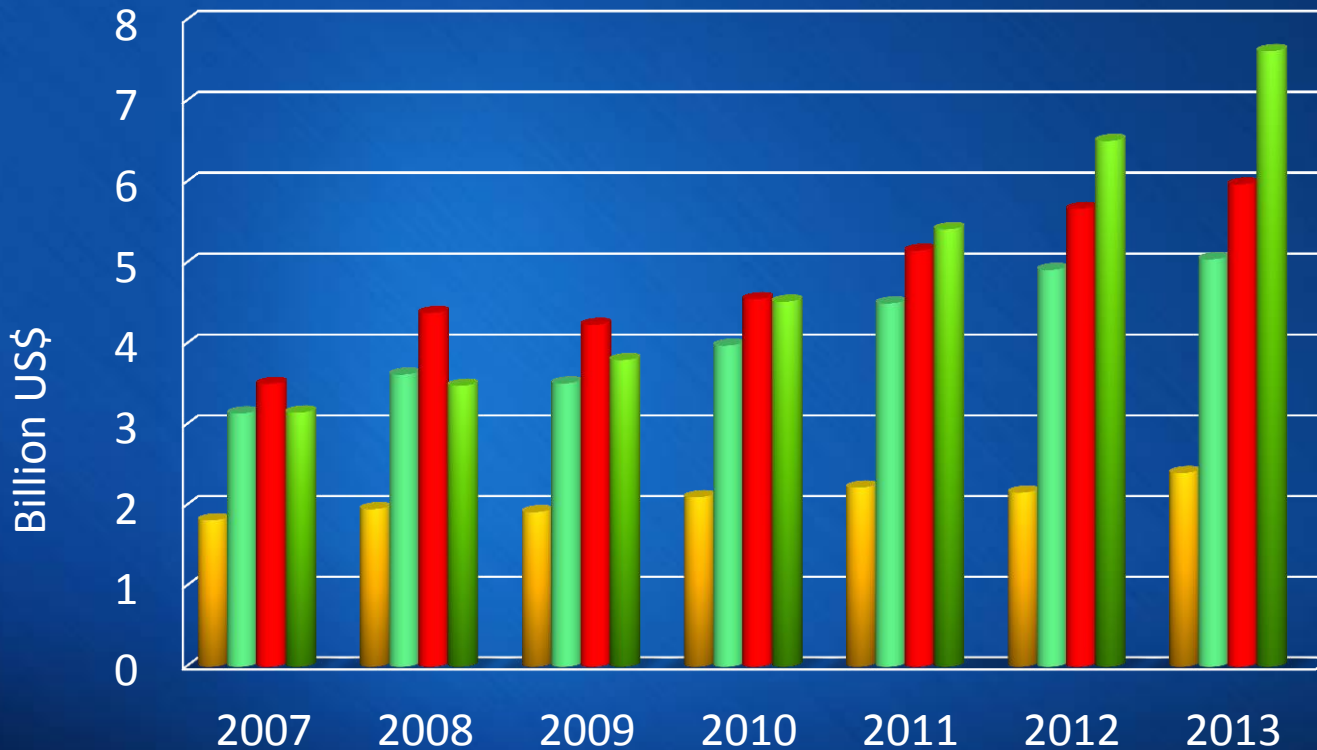
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Export Sales Value of US Specialty Crops

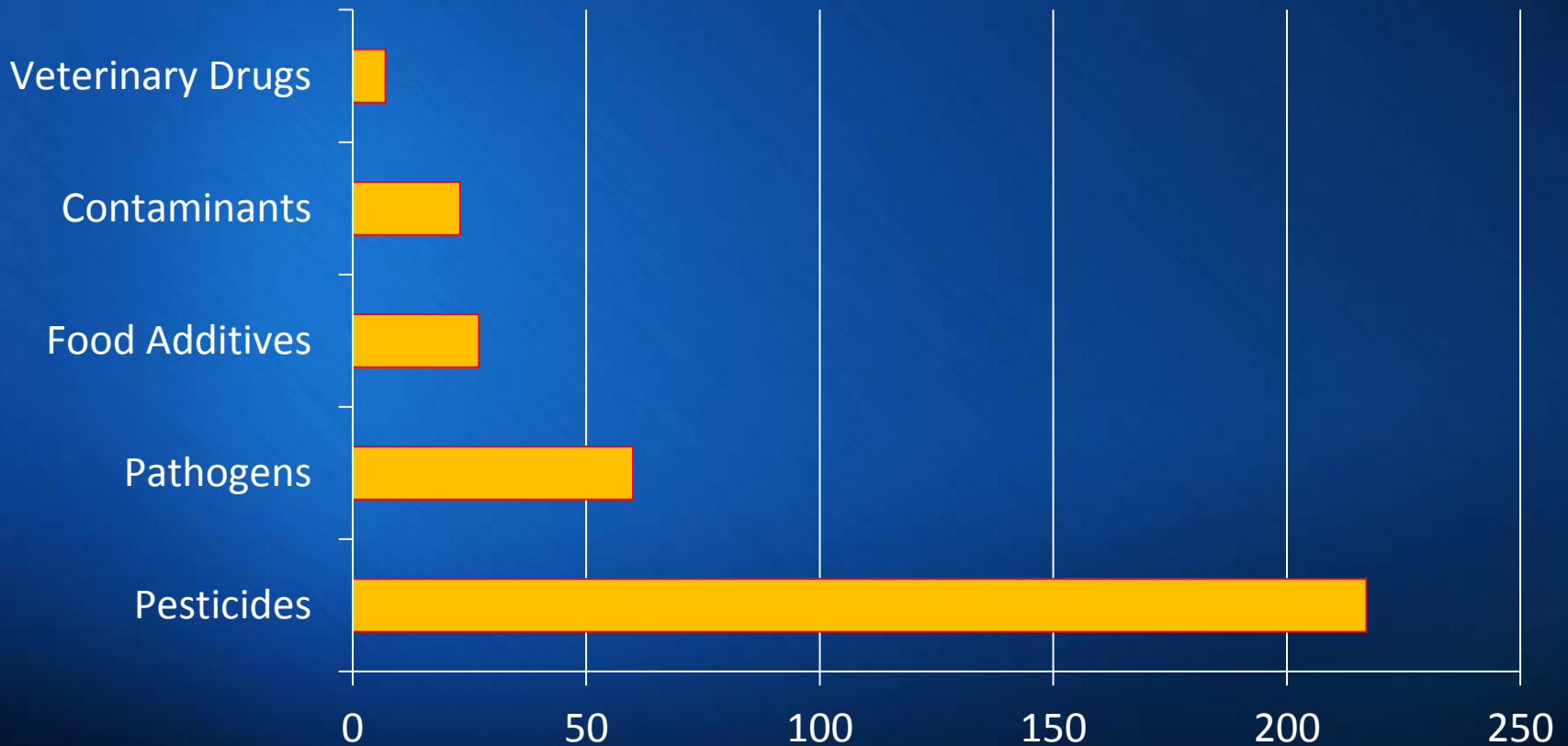
Export Sales Value



■ Vegetables ■ Fruit ■ Processed Product ■ Tree Nuts

U.S. Responses to MRL-Related WTO Notifications

MRL Concerns by Type



MRL Violations

- MRL violations can trigger sanctions imposed on an entire industry; potential losses can be significant
 - **Japan/Blueberries:**
 - 1st = Compliance plan (grower and US industry)
Grower subjected to 100% hold and test
Heightened testing for all USA blueberries (~2-3% to ~30%)
 - 2nd = All USA blueberries on “hold and test”
60 “clean” samples needed to remove “hold and test”
 - 3rd = All USA blueberries on “hold and test”
300 “clean” samples needed to remove “hold and test”
- Expect more violations in the future
 - Developing countries becoming more sophisticated
- **Need for identifying and prioritizing alternatives to conventional pesticides that pose MRL and trade risks**

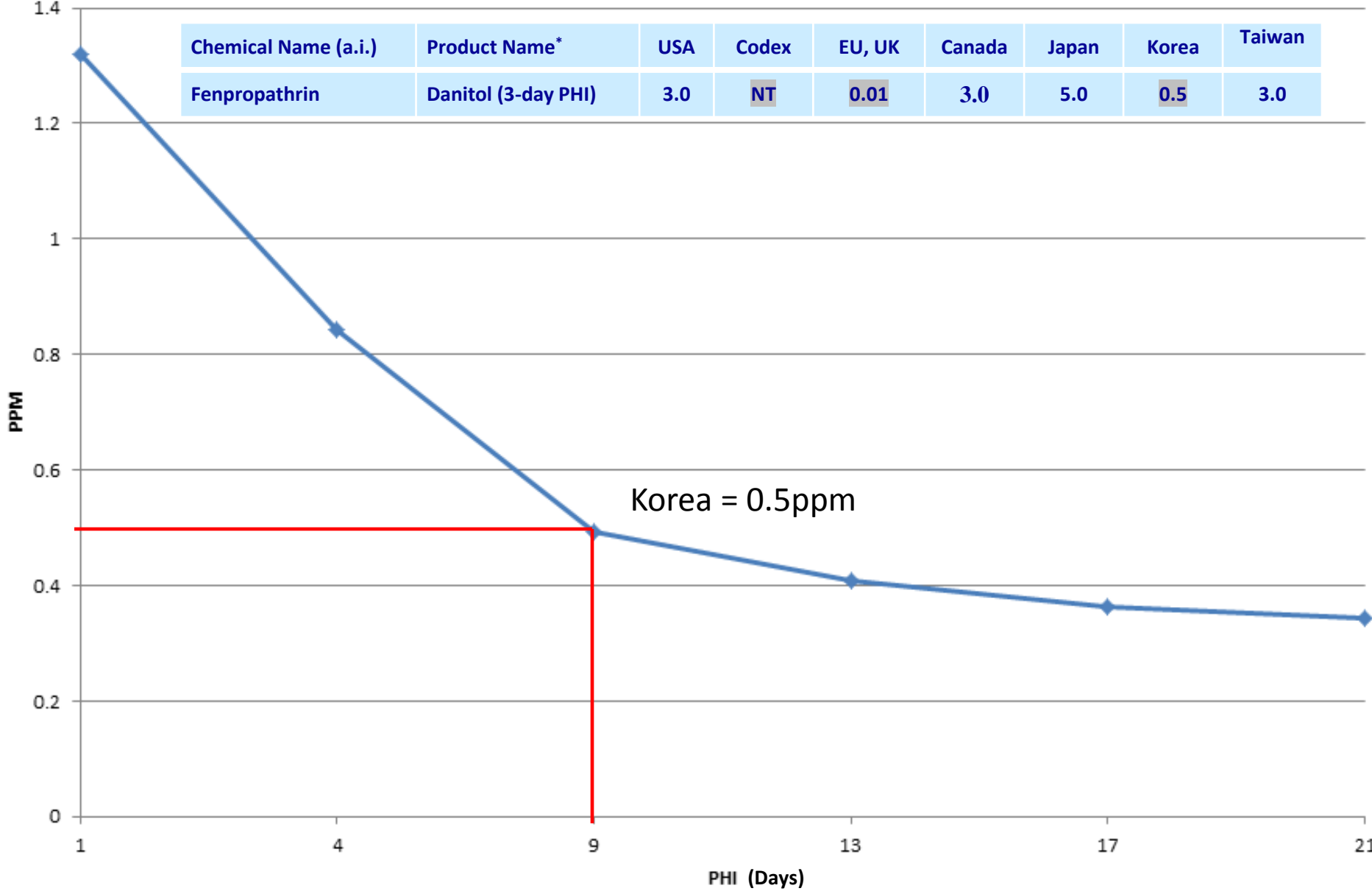
MRL Violations and Commercial Risks

- Caneberries: USA vs. EU
 - 82% of registered pesticides in USA caneberries have no MRL or lower MRL in the EU
- MRL compliance creates pest mgt challenges
- To meet international MRLs, growers need:
 - Pesticide degradation information
 - Alternatives to pesticides with long residual
 - Pesticides that don't contribute residues

Pesticide Degradation Information:

TRT 4 - Fenpropathrin

Chemical Name (a.i.)	Product Name*	USA	Codex	EU, UK	Canada	Japan	Korea	Taiwan
Fenpropathrin	Danitol (3-day PHI)	3.0	NT	0.01	3.0	5.0	0.5	3.0



What can be done?

Pest Management Options in the Field

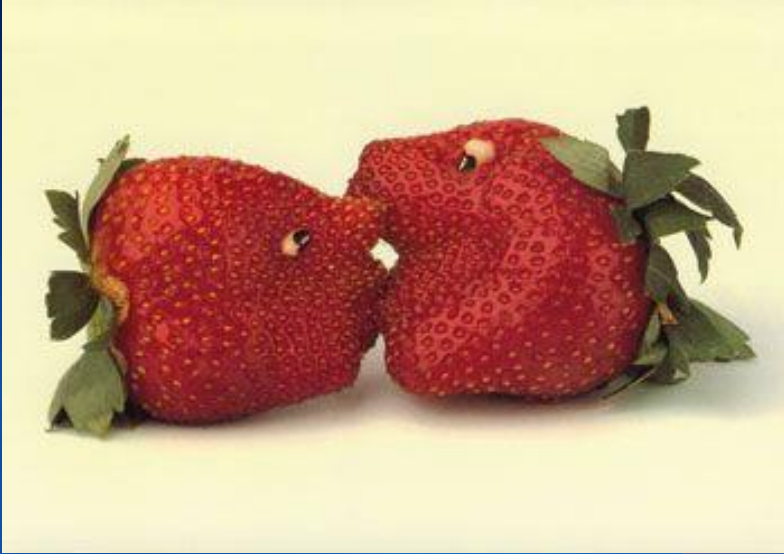
- Harvest using a longer PHI than that on the label
- Avoid pesticides with long residual
- Farm for specific markets
- Use pesticides that won't pose risk of MRL violation
 - Biopesticides

A Place for Biopesticides in Pest Management Residue Mitigation

- Close to harvest to avoid problematic residues
 - Clean-up spray prior to harvest (insect contaminants)
 - Insect/mite pest prior to, or between, harvests (SWD)
 - Storage rot fungicides needed just prior to harvest (Botrytis/shipment of fresh produce)
- Added application when max reached (Entrust/SWD)
- Conserve beneficials at times when they are active
- Export crops/residue mitigation (Request number 38)

Knowing your crop, your pest,
your production system and your needs:

Where might there be a fit
for a biopesticide?



Questions?



Questions?

