Pulse Growers' Perspective on MRLs—2016 International Year of Pulses

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2016 ACS

UN International Year of Pulses and MRLs

- Background to IYP - Global Pulse Confederation Progress
- Pulse Crops, Market Access and MRLs
- MRL Plan
- Call to Action

Unique features

- Global Pulse Confederation—international group, including representation from food-insecure nations
- Combination of specialty and bulk-handled pulse crops
- 50-60 million tonnes annual global production, export to 150+ countries
- Staple crops contributing to food security
- Includes blended commodities with long supply chains

IYP2016

The 68th UN General Assembly declared 2016 the International Year of Pulses

IYP Signature Events

Thematic Areas

World's Greatest Pulse Dishes (300+ recipes)

Pulse Feast
36 countries | 141 Events
Reach of 21 million people

OBJECTIVES

- **Raise awareness** on the role of pulses in **sustainable food production** and **healthy diets** and their contribution to **food security and nutrition**;
- Promote the **value and utilization of pulses** throughout the food system
- Encourage connections throughout the food chain to **further global production** of pulses, **foster enhanced research**, better utilize **crop rotations** and address the **challenges in the trade of pulses**

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IYP 2016 - *Signature Events*

International Conference on Pulses in Dryland Areas
April 18 – 20, 2016 | Marrakesh, Morocco

World Pulses Convention (GPC)
May 19 – 22, 2016 | Izmir, Turkey

View the map online
iyp2016.org/events

INRA Meeting on Grain Legumes (Francophone)
May 31 – June 1, 2016 | Dijon, France

Australian Pulse Conference
September 12-14, 2016 | Tamsworth, Australia

Second conference for the International Legumes Society
October 12-14, 2016 | Troia, Portugal

International Conference on Pulses for Nutritional Security and Agricultural Sustainability
November 12 – 14, 2016 | New Delhi, India

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East Coast Launch New York City

- https://www.youtube.com/watch?v=WROAxJjQKxg

Pulses by the Numbers

- **370 million** hashtags across all impressions
- **5.2 million** active engagements on social media
- **2.6 million** video views on facebook
- **334,057** visits to pulses.org
- **135,498** visits to iyp2016.org
- **1,310 IYP** related media articles
- **320 IYP** events already registered

Global Pulse Confederation (GPC) IYP Campaign – 4 Thematic Areas

- **Food & Nutrition**
  - Nutritional value of pulses
  - Pulse product innovation
  - Impact of pulses on food security
- **Creating Awareness**
  - Communications (media/social media)
  - School Programs
- **Productivity & Sustainability**
  - Pulses production & environmental impact
  - Pulse research needs
- **Market Access**
  - Improving access for developing countries
  - Facilitating trade

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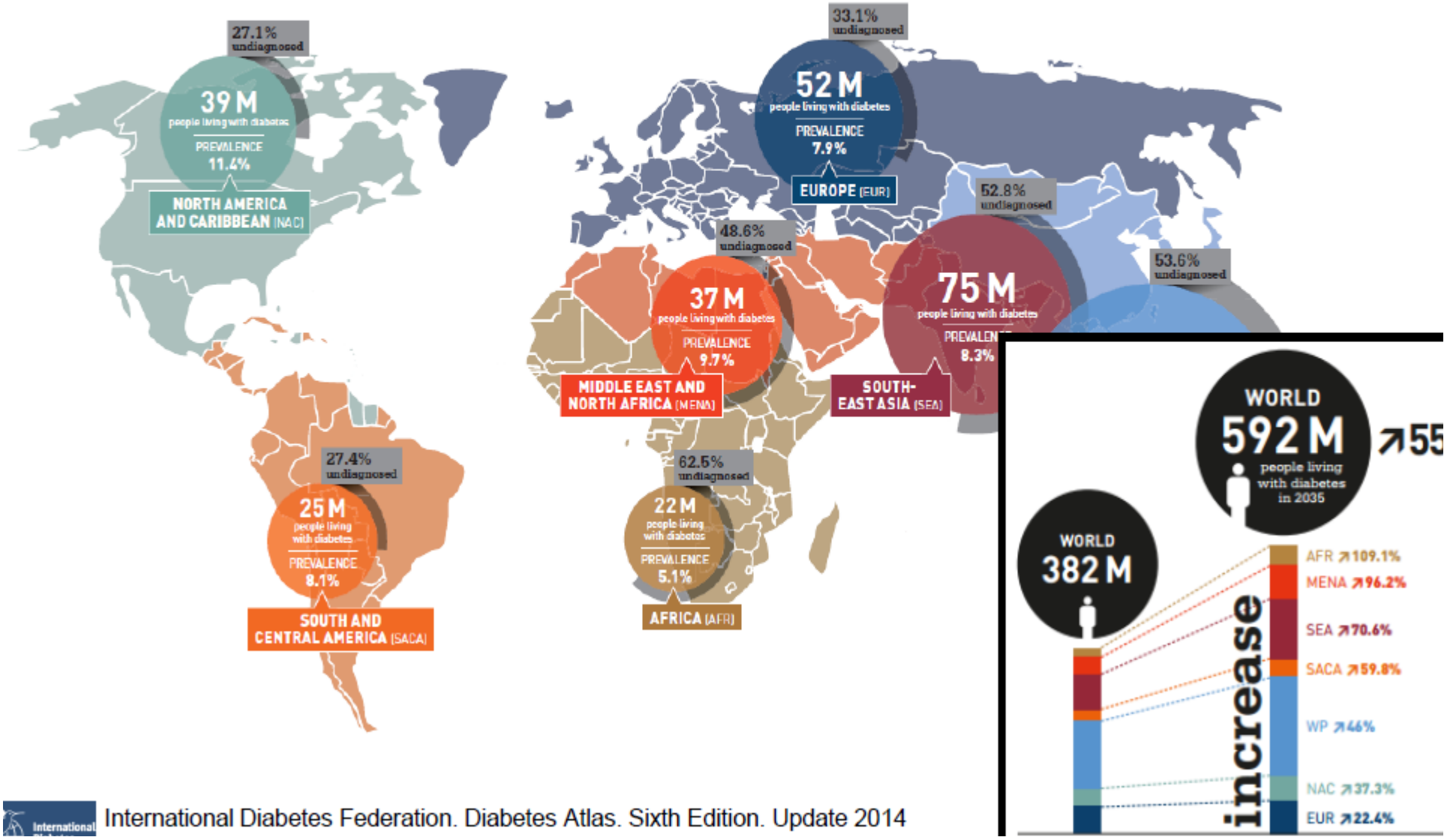
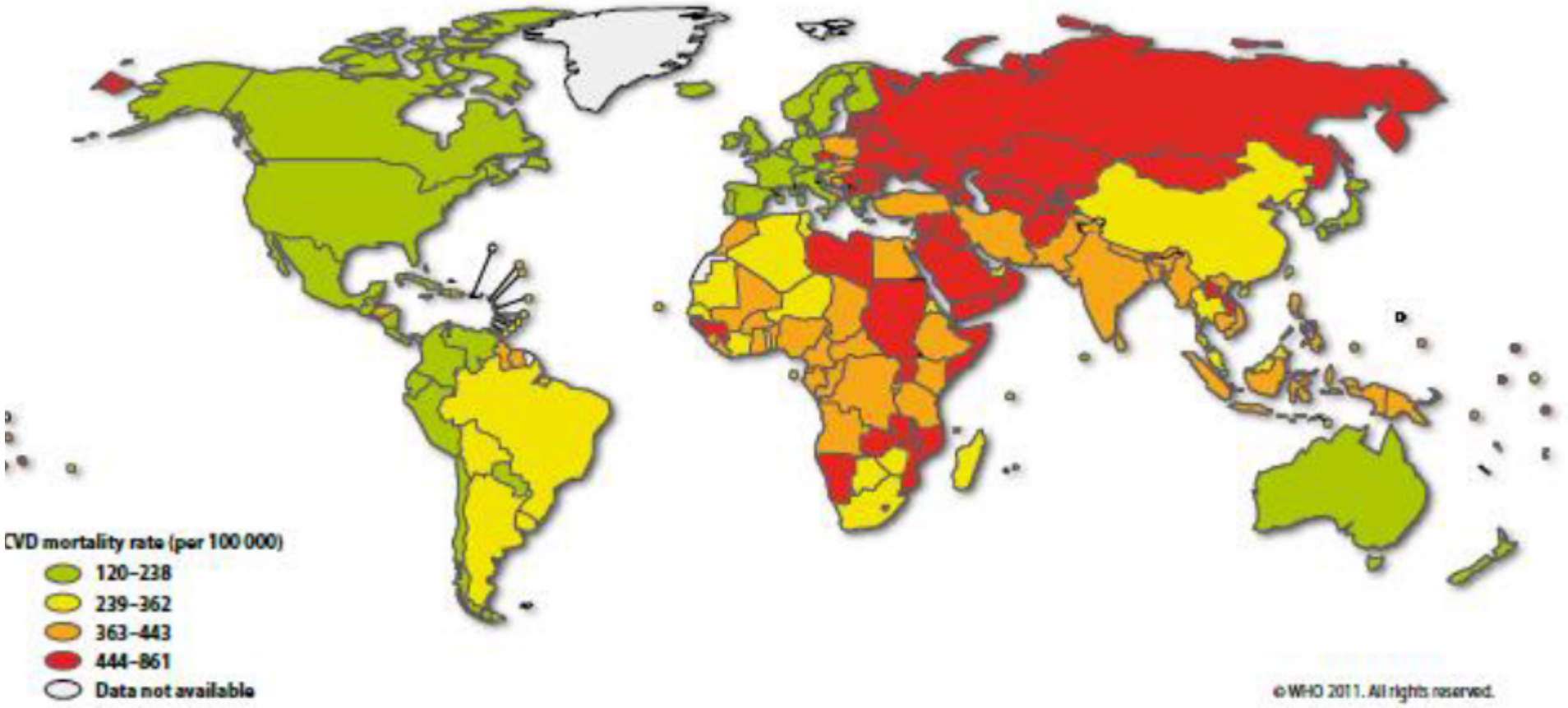
Diabetes: A Global Epidemic

Number of people with diabetes by IDF region, 2014



International Diabetes Federation. Diabetes Atlas. Sixth Edition. Update 2014

Cardiovascular disease:
A growing problem fueled by diabetes in the developing world



World Health Organization

WORLD HEART FEDERATION

World Stroke Organization

Pulses – Enhance Everyday Foods

Traditional Formulation:
100% Durum Semolina Pasta

Reformulated: Pulse Inclusion
25% Lentil, 75% Durum

- ✓ 25% lower carbon footprint
- ✓ 100% increase in fibre
- ✓ 25% increase in protein

Adapted from: Gan et al. 2011. Unpublished results, Agriculture and Agri-Food Canac
U.S. Department of Agriculture, Agricultural Research Service. 2010. USDA National Nutrient Database for Standard Referenc

Evidence from the field

"chickpea pea enables me to use my limited land efficiently- double crop harvest"

Rukiya Esssa-women farmer from Wachoebiso kebele- Hulbareg District 4/01/14

A female farmer harvesting chickpea for the first time at Halaba

MARKET ACCESS COMMITTEE

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Market Access Committee

issue

- **Access to international markets is critical**
  - **Open access to markets**
  - **Predictability of trade**

  Advocate that price stability and food security can be enhanced through International Trade

Why Pulses and MRLs

- Previous MRL challenges
- Current MRL project work
- Balance between trade noncompliance risk and access to technology

IMPORTANT INFORMATION FOR PULSE GROWERS

WHAT ARE THE CROP PROTECTION PRODUCTS TO PAY ATTENTION TO THIS SEASON?

For pulse crop production in Western Canada, these products include diquat (Reglone), glyphosate (Roundup), saflufenacil (Heat), glufosinate (MPower Good Harvest), flumioxazin (Valtera), carfentrazone (Aim, Clean Start), benzovindiflupyr (Solatenol, Elatus), chlorantraniliprole (Coragen, Voliam Xpress), and Chlorpyrifos (Lorsban and other trade names).

WHAT ARE THE RISKS OF USING THESE PRODUCTS?

There is no need for caution if applied early in the season, but very late applications of fungicides, insecticides or desiccants, and harvest management tools may result in residue levels found in the seed. As a result, growers must ensure that they take appropriate risk mitigation steps to assure product residue remains below MRLs set by regulatory agencies.

WHAT DEVELOPMENTS HAVE THERE BEEN ON THESE ISSUES SINCE LAST YEAR?

The Canadian pulse industry is working hard to eliminate market access risks. For the crop protection products referenced in this document, growers are advised to be aware of international regulations in order to make the best crop management decisions.

WHAT CAN YOU DO TO MITIGATE RISK?

Ensure product residues remain at trace levels or levels well below accepted maximums by following these simple steps:

1. **Do not exceed the product's labelled rate**
   Regulations for individual pesticides are set to allow growers to properly use the product without fear of violating domestic MRLs. However, these guidelines assume that the labelled rate is not exceeded. If you exceed the labelled rate, you risk surpassing recognized MRLs and this can have serious consequences in terms of both domestic pesticide laws, and international acceptance of the crop.
2. **Time the application according to the label**
   Labels are very specific in terms of crop staging. Follow label instructions and apply crop protection products only at the recommended crop stage, so that you do not risk exceeding the maximum residue limits making your crop difficult to market.
3. **Consult with your exporter/processor about which crop protection products are acceptable in international markets**
   Exporters/processors have a good sense of which markets may be sensitive to specific products. They will likely ask you what was used in your crop and possibly for more information.
4. **Consult the chart on the following page indicating market considerations and statuses for specific products or visit www.keepingitclean.ca.**

ALBERTA PULSE GROWERS · Saskatchewan Pulse Growers · Manitoba Pulse & Soybean Growers

MARKET CONSIDERATIONS FOR USE OF PULSE CROP PROTECTION PRODUCTS - May 2016 Update

Crop Protection Products	Peas	Lentils	Chick-peas	Beans	Faba Beans	Comments
A. Desiccant/Harvest Management Tools						
Glyphosate *(e.g. Roundup)*	✓	✓	!	!	!	Consult with your exporter/processor before usi for certain crops/destinations. MRLs are establis markets, however MRLs are set at low levels (2 p for dry beans in the EU and JPN, as well as for ch beans at CODEX.
Diquat *(e.g. Reglone)*	!	!	!	!	!	Consult with your exporter/processor on pulse cr the US. MRLs are established in key markets but M been established in the US.
Saflufenacil *(e.g. Heat)*	✓	!	NR	✓	NR	Consult your exporter/processor before using the product for the EU. MRLs are established in key markets, but the E to set at a low level and is in the process of being increased registered on red lentils but not on other lentil types. The p unregistered for pre-harvest use on chickpeas, but a regist stages. Consult www.keepingitclean.ca to confirm that the place before applying the product on chickpeas.
Glufosinate *(e.g. MPower Good Harvest)*	NR	!	NR	NR	NR	Consult with your exporter/processor before usin MRLs are established in the EU and JPN, but not CODEX.
Carfentrazone *(e.g. Clean start, Aim)*	!	NR	!	!	!	Consult with your exporter/processor before usin MRLs are established in the EU, US and JPN, but
Flumioxazin *(e.g. Valtera)*	NR	NR	NR	!	NR	Consult with your exporter/processor before usin MRLs are established in the EU, US and JPN, but
B. Other Crop Protection Products						
Chlorantraniliprole *Insecticide (e.g. Coragen, Voliam Xpress)*	✓/!	✓/!	✓/!	✓/!	✓/!	If applied according to label rates early in the crop vegetative stage or during flowering, there is no ri In cases of later-season application during pod de seed fill to maturity (e.g. for late season grasshopp consult with your exporter/processor.
Chlorpyrifos *Insecticide (e.g. Lorsban, other trade names)*	NR	✓/!	NR	NR	NR	If applied according to label rates early in the crop vegetative stage or during flowering, there is no ri In cases of later-season application during pod de seed fill to maturity (e.g. for late season grasshopp consult with your exporter/processor.
Benzovindiflupyr *Fungicide (e.g. Elatus, Solatenol)*	✓/!	✓/!	✓/!	✓/!	✓/!	If applied according to label rates early in the crop application at 0-20% flowering), there is no need t cases of later-season application, consult with you processor before using the product.

✓ No marketing issues.

! Know your market. There is at least one market where MRLs are not established. Consult with your exporter/proc

✓/! No marketing issues associated with early application. If late application during pod development or seed fill to mat (e.g. for late season grasshopper control), consult with your exporter/processor.

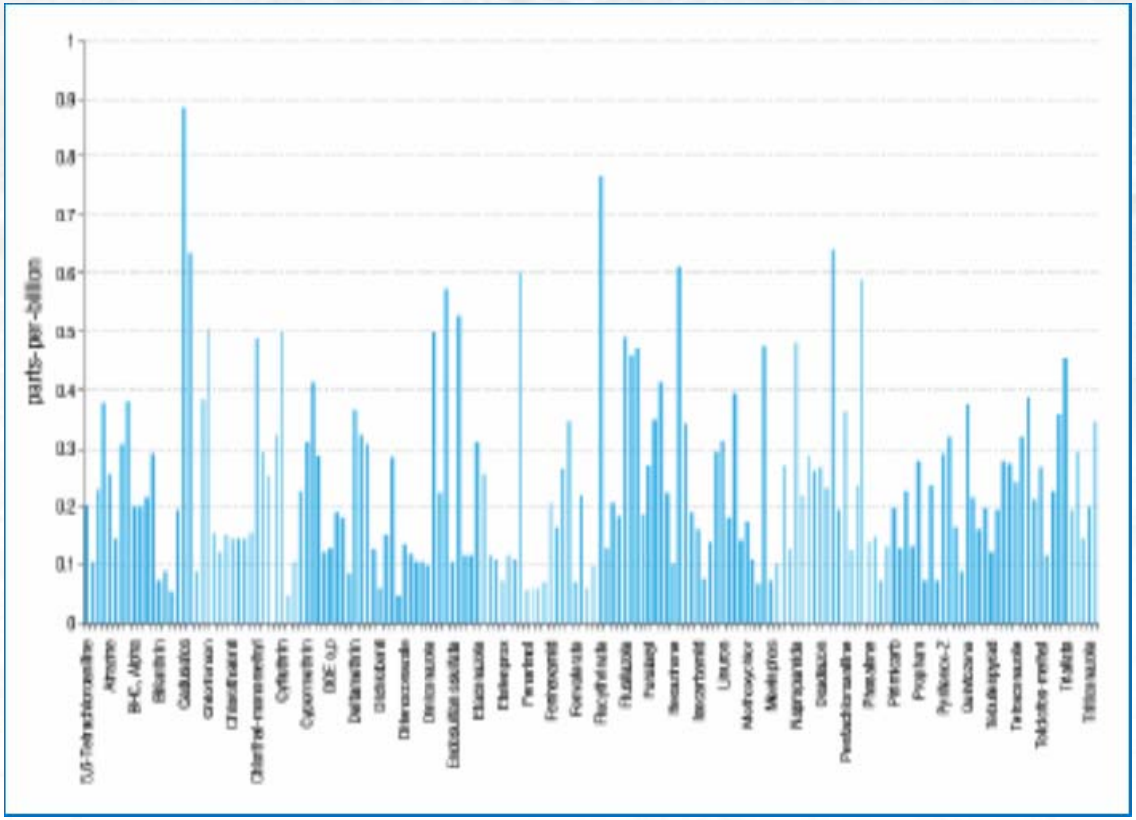
NR Not registered. Only use registered product.

Advances in testing

Example: Quick, Easy, Cheap, Effective, Rugged, and Safe (QuEChERS) technique followed by analysis with a Triple Quadrupole Gas Chromatograph coupled with a Tandem Mass Spectrometer (GC-MS/MS).

Can identify over 260 pesticide residues per crop at well below 1 ppb with a good level of selectivity.

Zero tolerances increasingly untenable



National MRL lists

- Trans Pacific Partnership: 11 out of 12 countries (but only 5 out of 12 with no deferral path)

Key export markets: India, China, Turkey, United Arab Emirates

Concerns on missing MRLs, less on unharmonized MRLs

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GPC Market Access Committee *workplan*

- **Improvements in trade rules**
  - Develop an **advocacy strategy to increase** Codex Maximum Residue Limits (MRLs)
  - **Build a coalition beyond pulse crops**
  - **Advocacy activities about Codex MRLs**
- **Address barriers to farmers access to market in developing countries**
  - Addressing **market information gaps**
  - **Advocacy** activities
- **Address value chain challenges**
  - moving product to market (sorting, transport, storage, processing, marketing)

Establishment of a coalition

- **IYP 2016 coalition calling for a commitment from the leadership of FAO, WHO and the Codex Alimentarius Commission to increasing the capacity of the JMPR**

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IYP Coalition recommendations

- **Increase the number of experts** on panels, with the support of member countries
- Ensure budget is available
- Leverage the availability of **electronic tools**
- Use **national reviews** and MRLs already established by national authorities
- **Maximise the use of crop groupings** and representative commodities
- Avoid re-work and delay through clear guidance on residue trial requirements
- **Ensure the consistency of application** and adherence to the policies adopted by JMPR, CCPR

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GPC Actions-Workplan

1. Improving human resources available to JMPR.
2. Improving financial Resources available to JMPR.
3. Addressing methodological issues of JMPR review.

- FAO
- WHO
- Growers/Registrants
- Codex Commission

Work plan-Implementation

1. Coordination of national outreach with members of the coalition.
2. Outreach at the international level to delegations of member states of WHO, Codex and FAO, as well as senior WHO and FAO staff.
3. Outreach to capital of selected countries.

- Building relationships with national delegations supporting reform plan
- Find pathways for reform of different aspects of capacity
- Find producers that are impacted by MRLs
- Build coalitions for additional sources of funding

Expected Outcomes

- Develop a work plan that can turn into a **self-sustainable coalition**, beyond pulses and beyond 2016, to work towards **common goals**
- Identify how to get **private sector funding to WHO and FAO**
- Raise awareness towards **work on mutual recognition or recognition of scientific standards (RSS)**
- **Involve developing countries** where the MRLs issues are creating obstacles for farmers

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Meetings

- **FAO Committee on Commodity Problems, Rome**
- **CCPR, Beijing 2015 and Chongqing 2016**
- **WTO Public Forum, Geneva**
- **International Grain Trade Coalition, April 2016 Canada, June 2016 London**
- **Crop Life America and RISE Spring Conference**
- **Codex Alimentarius Commission (CAC39)**
  Committee on Sanitary and Phytosanitary Measures (SPS)
- **Committee on Commodity Problems (CCP71)**
  October 3-5, Rome
- **WTO WORKSHOP ON MAXIMUM RESIDUE LEVELS (MRLS)**
  October 24-25, Geneva

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Call to Action

- Federal Agencies—Help find ways to support goals of coalition for reform
- Grower/Producers—We are building a coalition, other grower groups
- Registrants—help identify the products, prepare dossiers.
- All—looking for stories of impacts to trade to share with FAO, WHO and others

Thank you!

GPC IYP Market Access Committee