

Montreal Protocol & Methyl Bromide: Status Report

2012 MRL Workshop
California Specialty Crop Council
June 6, 2012
San Francisco, California

Presentation Overview

- ◉ Background Information
- ◉ Current Regulatory Situation
 - Montreal Protocol
 - US Clean Air Act
- ◉ 2014 CUE Nominations
- ◉ QPS Situation
- ◉ Future ???

Background Information

● Montreal Protocol

- Initial Listing of Methyl Bromide – 2003
- Amendments and Modification of Regulatory Status and Process 1997 – Critical Use Exemptions and Quarantine and Pre-harvest Sanitary Treatment Exemptions
- Annual Reviews, Recommendations and Approvals of CUE Starting in 2004 Meeting of the Parties -- A-5 nations
- CUE's for non –A 5 Nations -- 2015

Background Information

● US Clean Air Act

- Stratospheric Atmosphere Protection
 - Ozone Depletion
 - Climate Change
- Petition to list Methyl Bromide 1991
 - Category 1 Ozone Depleter – ODP 0.7
 - Requires Ban on US Production and Consumption
- 1997 Amendments to US Clean Air Act
 - Authorized EPA Administrator to Follow Montreal Protocol Decisions on Timelines and Exemptions
- CUE Process Developed Under CAA Authority -- First effective in 2003
 - Two Year Process
 - Drives CAA Annual Allocation Rule to allow US “production and Consumption” of Methyl Bromide

Process

- Critical Use Exemption Prepared For Industry Segment
- Submitted to US EPA Office of Air
- US Government Review and Compilation
 - USDA, EPA OPP, EPA OAR, & US State Department
- US Government Submits Critical Use Nomination to Ozone Secretariat, United Nations Environmental Programme
- Methyl Bromide Technical Options Committee Review
- MBTOC Review and Recommendations Submitted to TEAP
- TEAP Presents Report at UNEP Open-ended Working Group
- Recommendations Discussed and Refined for Consideration by Meeting of the Parties to the Montreal Protocol
- Decision Taken at Meeting of the Parties – One Year in Advance of Use
- US EPA Office of Air -- Allocation Rule Authorizing the Specific Quantities of Methyl Bromide that can be Produced and Imported to Meet CUE Needs
- US Control Period – January 1 through December 31.

Current Status

- ◉ Ninth Year of Process
- ◉ Significant Reduction of CUN Quantities and Industry Segments Included
- ◉ Increasing Complexity of Information Requested

Methyl Bromide Critical Use Exemptions

Source of CUE Material (metric tonnes)

Control Period	Production & Consumption	Existing Stocks	Total CUE Approved
2005	7,659.000	1,893.879	9,552.879
2006	6,823.707	1,258.046	8,081.753
2007	4,316.055	1,914.600	6,230.655
2008	4,595.040	760.309	5,355.349
2009	2,275.715	1,919.193	4,194.608
2010	1,955.775	1,028.108	2,983.883
2011	1,855.200	200.000	2,055.200
2012	699.683	60.061	759.744
2013	562.325		

Methyl Bromide Critical Use Exemptions

Sources of CUE Material (% 1991 baseline)

Control Period	Production & Consumption	Existing Stocks	Total CUE Approved
2005	30.00	7.42	37.42
2006	26.73	4.93	31.66
2007	16.90	7.50	24.40
2008	18.00	2.98	20.98
2009	8.90	7.50	16.40
2010	7.66	4.02	11.68
2011	7.25	0.79	8.04
2012	2.74	0.23	2.97
2013	2.20		2.20

2014 Critical Use Nomination

● Four Sectors

- California Strawberry Fruit
- Mills and Structures
- Commodities
- Dried Pork Products

● Total Quantities Requested

• California Strawberries	--	415.067 mt
• Commodities	--	0.740 mt
• Mills and Structures	--	22.800 mt
• Dried Pork Products	--	<u>3.730 mt</u>
Total		442.337 mt

● 2014 Request = 1.73 % 1991 Baseline

UNEP Review

● TEAP Progress Report:

http://ozone.unep.org/Assessment_Panels/TEAP/Reports/TEAP_Reports/TEAP_Progress_Report_May_Vol-1.pdf

● US Nomination:

● California Strawberries	--	415.067 mt
● Commodities	--	0.487 mt
● Mills and Structures	--	22.800 mt
● Dried Pork Products	--	<u>[uaa]</u>
Total		437.244 mt

● 2014 Request = 1.70 % 1991 Baseline

MBTOC Reductions

● Commodities:

- Reduced Dried Plums to 1 kg – Alternatives Available
 - Dried Pork – Unable to Assess – Restrictions on Use on Dried Pork in India Regulations Due to Fat Content, Need for More Information
-
- Will be Discussed and Further Refined at Open Ended Working Group Meeting in Bangkok, Thailand, July 23 – 27, 2012

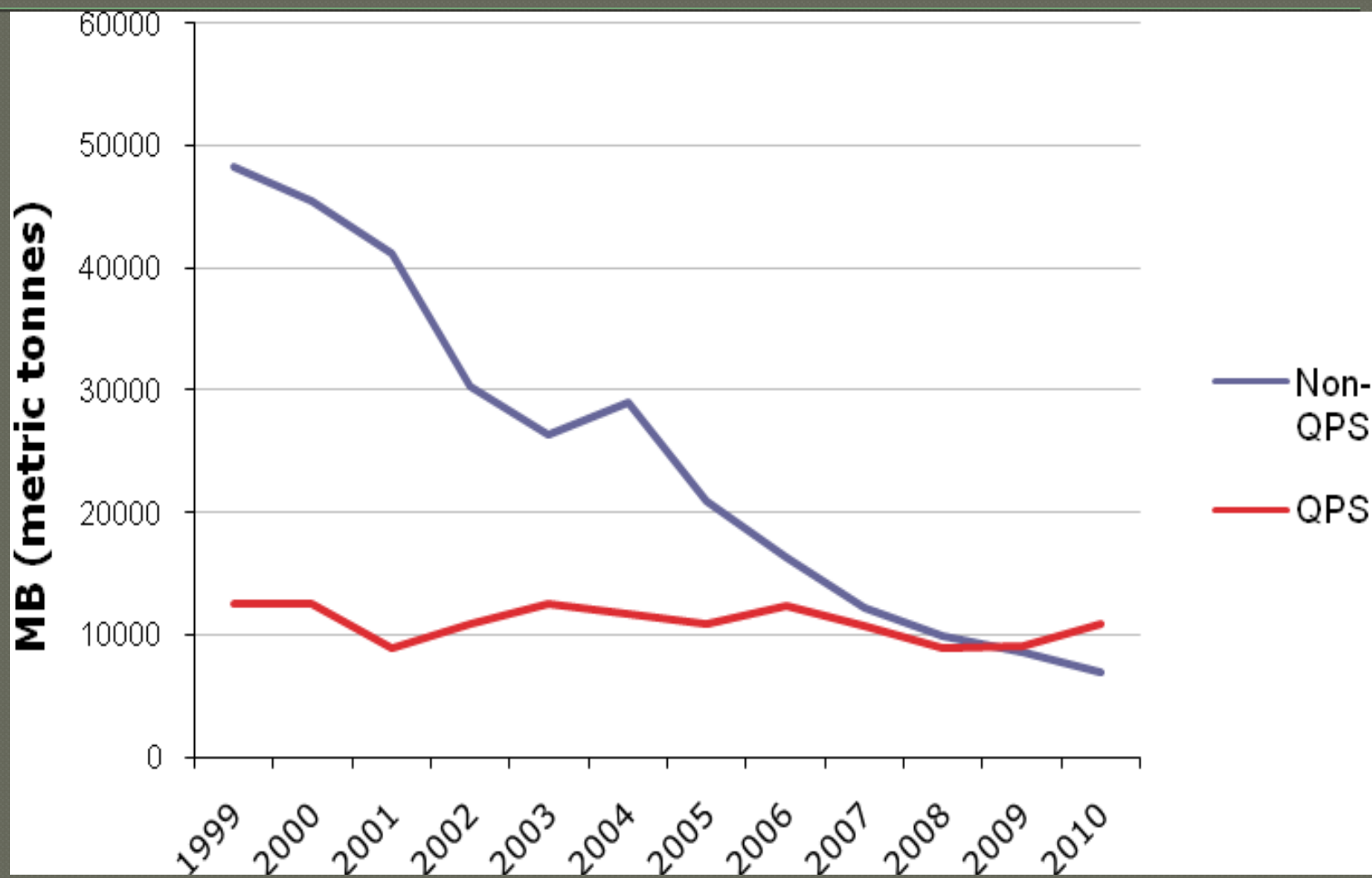
Quarantine and Pre-shipment Exemptions

- Continued Concerns Raised at OEWG and MOP – Mainly European Commission
- Potential for Increases Due to Wood Packaging Materials from Asia as exports increase – IPPC Standard Requires Either Heat or Methyl Bromide

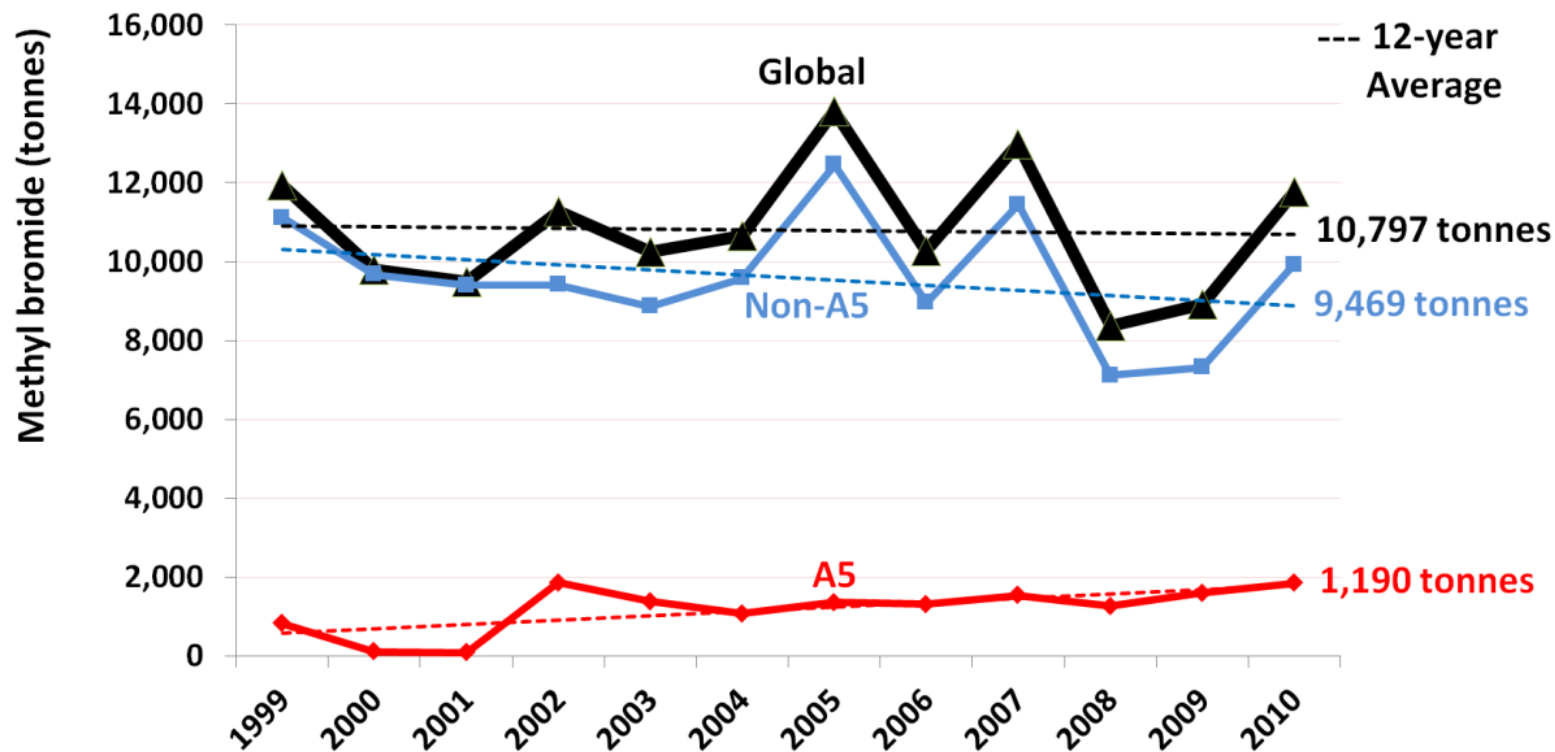
TEAP/MBTOC Review and Recommendations

- Continuous Requests for More Refined Information
- 2012 TEAP Assessment Report
 - Comparison of Information Collection Required at the Party Level
 - Increased Attention from Many Parties – Trade Implications
 - Definitional Changes -- IPPC

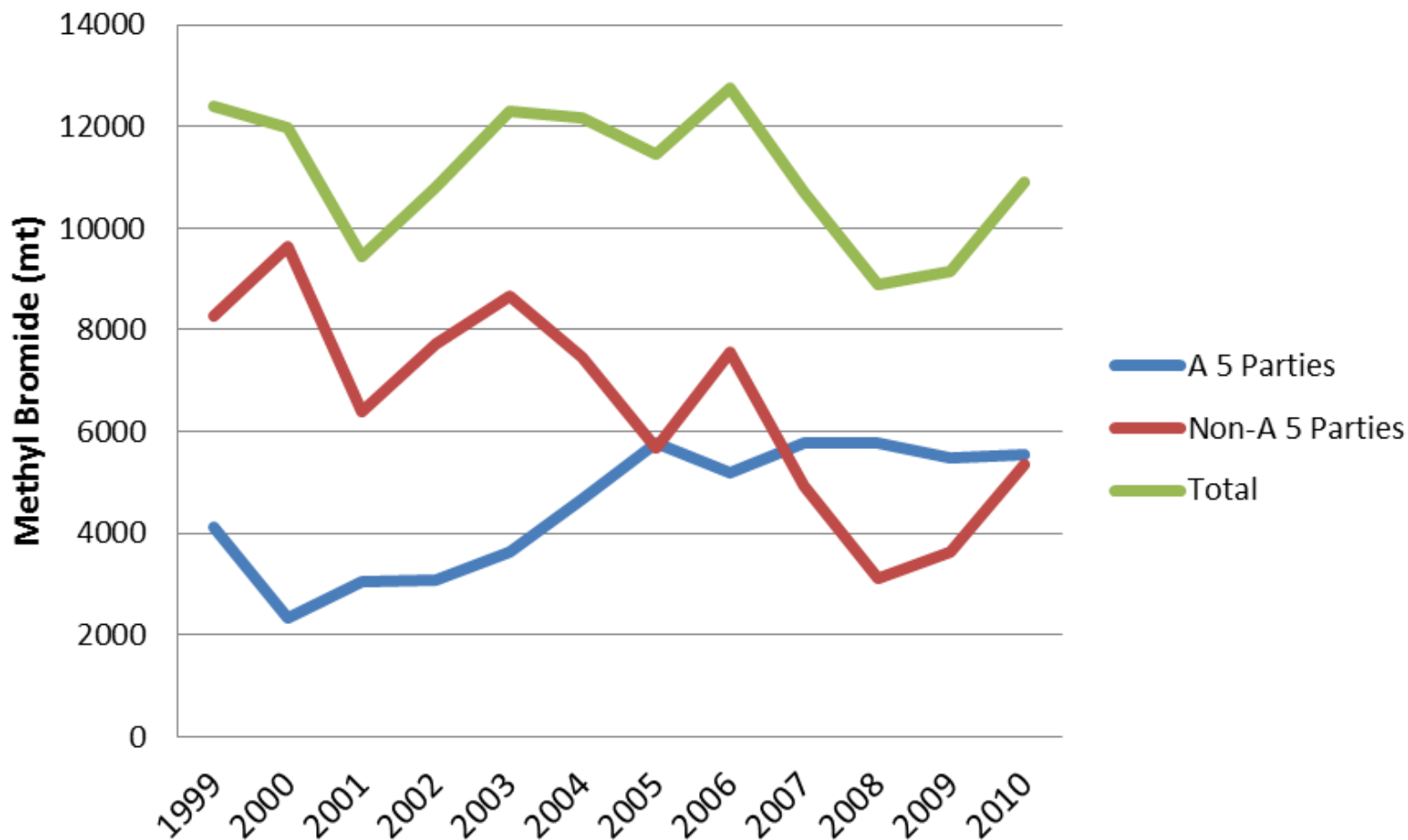
Comparison of Non-QPS and QPS Global Consumption from 1999 to 2010



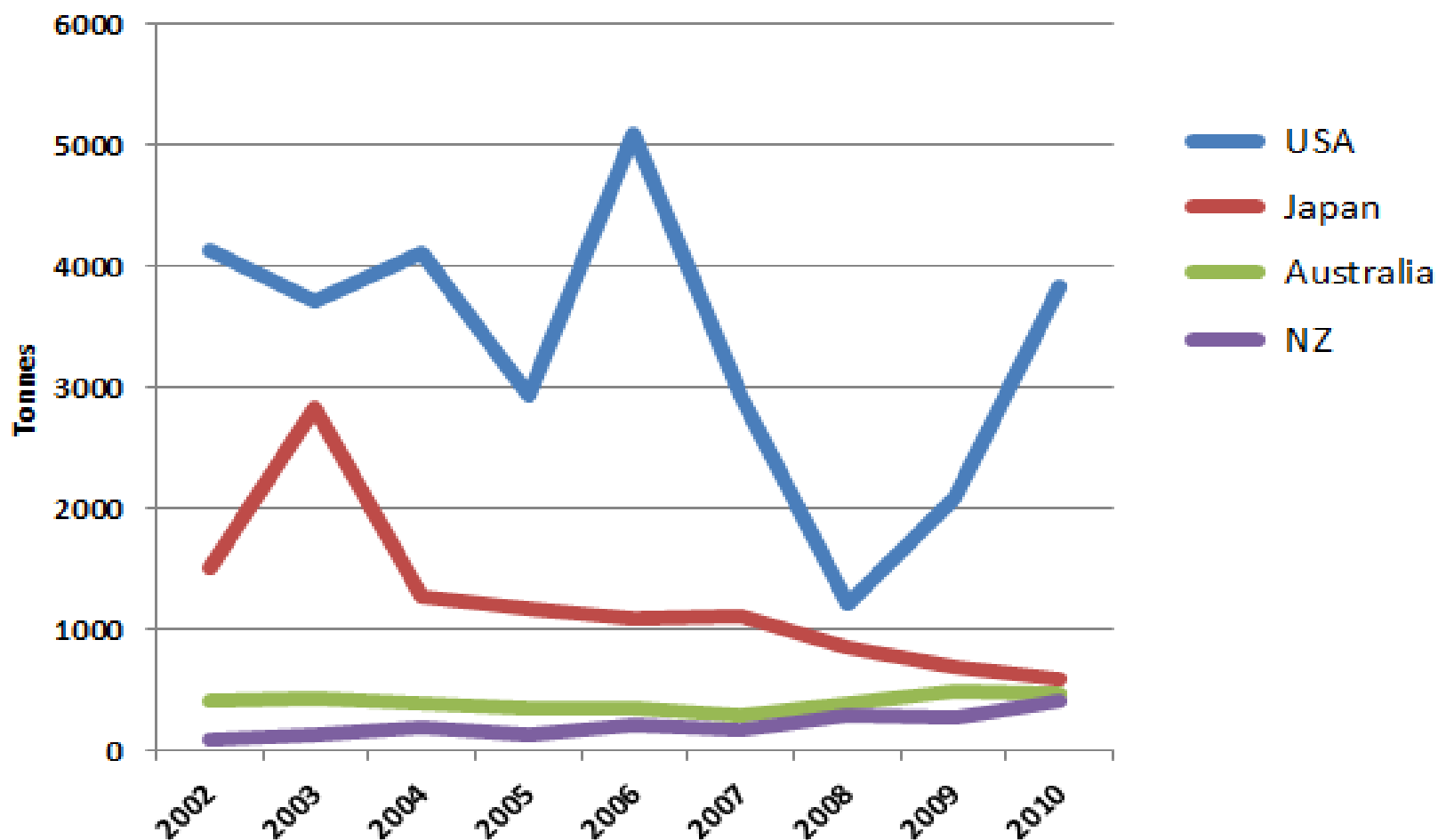
Global Production of Methyl Bromide for QPS uses 1999 – 2010



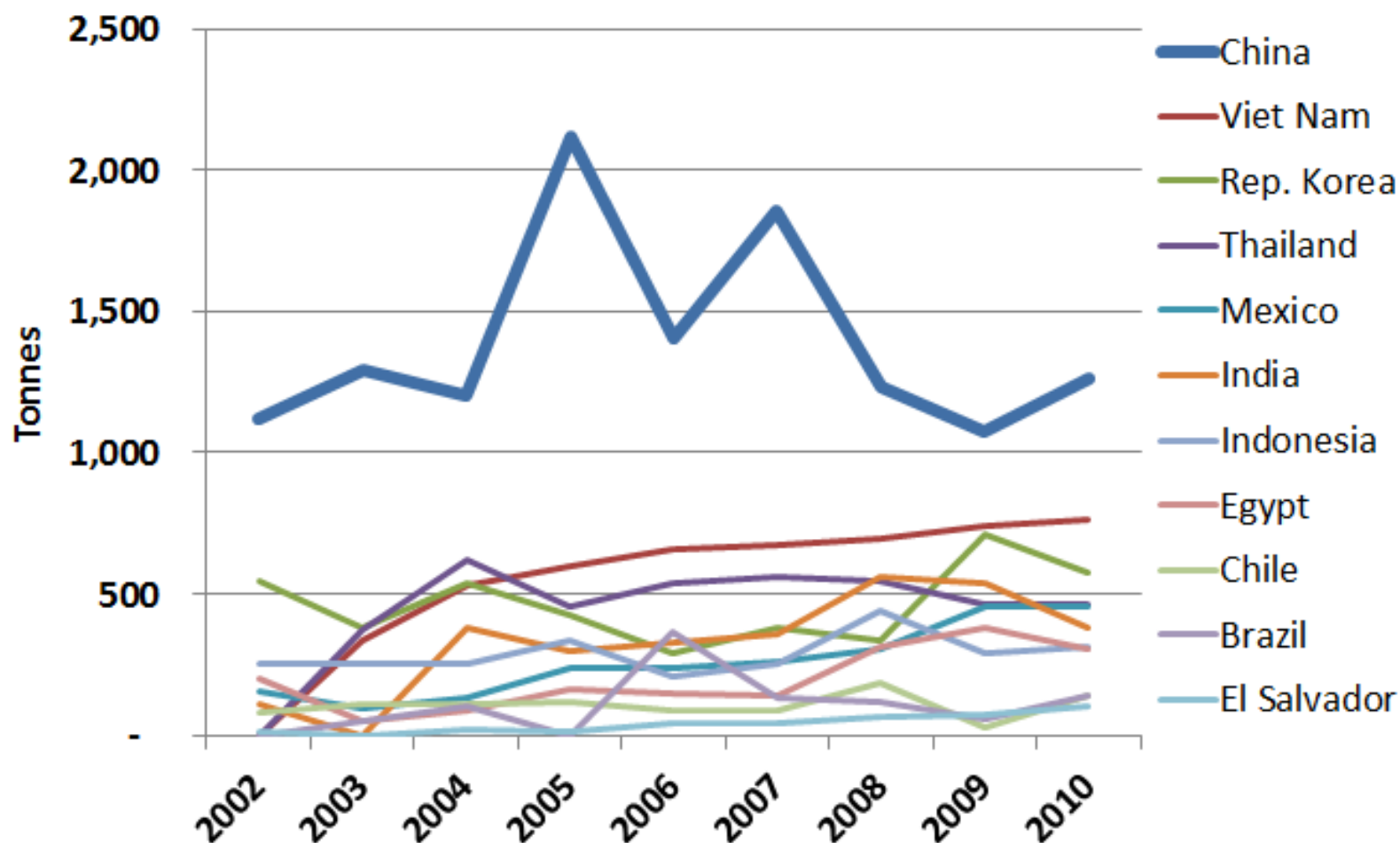
Global Consumption of Methyl Bromide for QPS Uses 1999 – 2010



Largest Consumers of MB for QPS Uses in 2010 by Non-Article 5 Parties (tonnes)



Largest Consumers of MB for QPS Uses in 2010 by Article 5 Parties (tonnes)



Decision at 23rd Meeting of the Parties, Bali Indonesia –November, 2011

● Report to 2012 OEWG

- Data Needs and Collection Methods
- Definitional Issues
 - interpretation of the concept of *—official control* and its application in practice for quarantine pests that are present in an area as well as for regulated non-quarantine pests, and the concept of *—present but not widely distributed and under official control* for quarantine pests.
 - IPPC ...*counter increasing public opposition to traditional pesticide-based means of dealing with pest outbreaks and to allow countries to meet their obligations under the Montreal Protocol. These have increased the costs faced by governments in ensuring an equivalent level of phytosanitary protection provided by traditional, but environmentally damaging, treatments.*
 - MB consumption for QPS in the Montreal Protocol is currently exempt from control. However, TEAP periodically provides information to the Parties that may result in their re-evaluation of this exemption.

Future ??

● Changes in Regulatory Status of Alternatives

- US – Iodomethane, sulfuryl fluoride
- EU – 1,3-Dichloropropene, chlortopicrin

● FIFRA Impacts

- Fumigant Label Changes – Reregistration
- Registration Review – Beginning in 2013

Grower and Commodity Group Involvement

- ◉ Engage at the National and International Level
 - CUE Process
 - QPS
- ◉ Potential Changes in US Statutory Requirements
- ◉ Work with Trading Partners

Thank You For Your Attention

Questions?