



**Asia-Pacific
Economic Cooperation**

2011/ATCWG/WKSP/012

Agricultural Statistics and Food Security

Submitted by: United States



**Workshop to Assess and Improve
Agricultural Data Collection and
Dissemination by APEC Member
Economies
Manila, Philippines
27-28 October 2011**

Agricultural Statistics and Food Security

*APEC Data Workshop
Manila, Philippines
October 28, 2011*

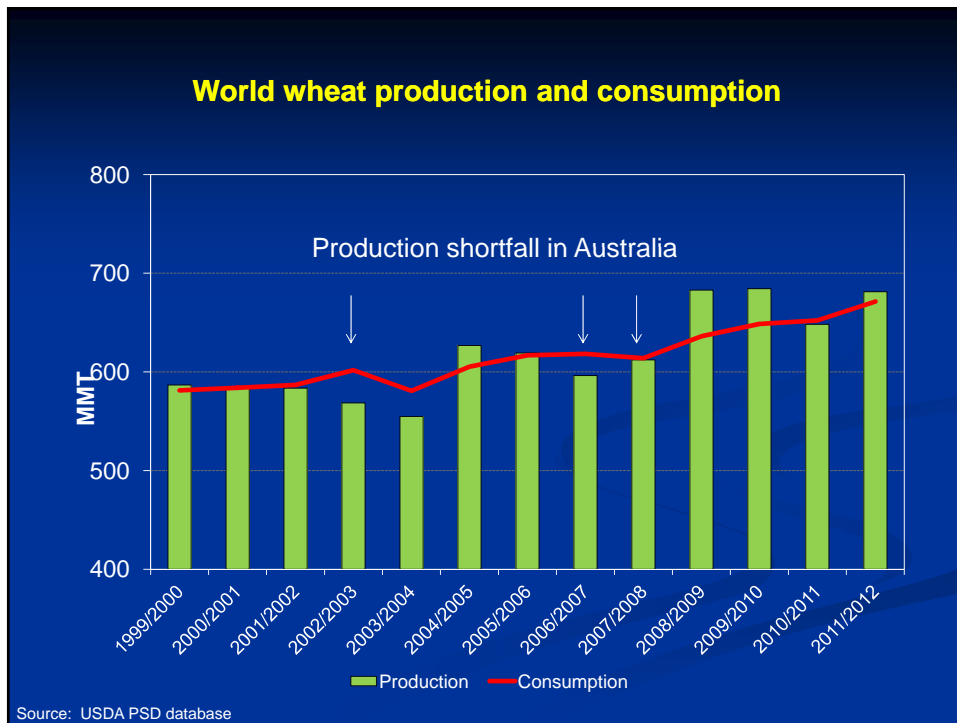
*Bill Verzani
Agricultural Attaché
Foreign Agricultural Service/USDA
U.S. Embassy, Manila*



Shocks to supply and distribution variables lead to price volatility and accessibility issues

$$\begin{aligned} &\text{Beginning stocks} + \text{Production} + \text{Imports} \\ &= \\ &\text{Exports} + \text{Consumption} + \text{Ending stocks} \end{aligned}$$

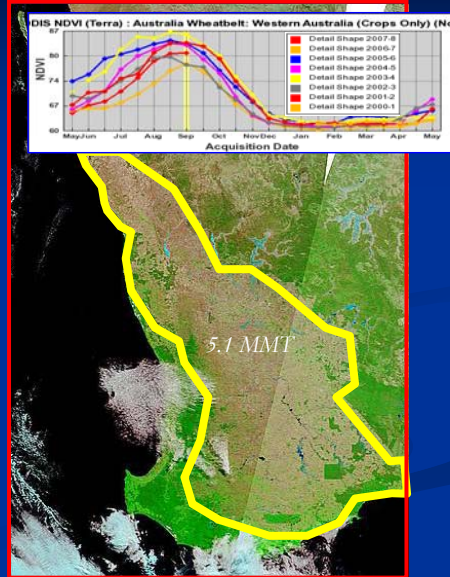
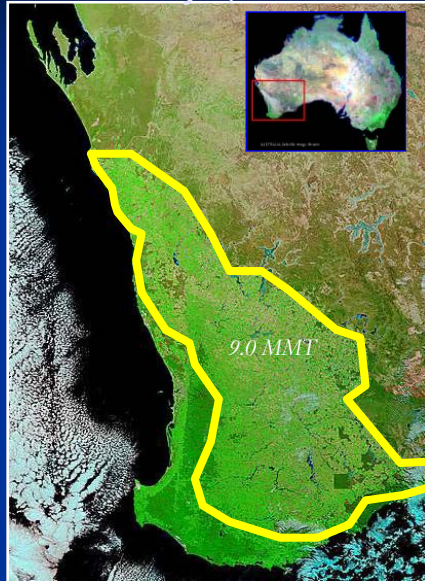
Production:
Early detection of shortfall is key



Tracking Global Crop Production

July 8, 2005

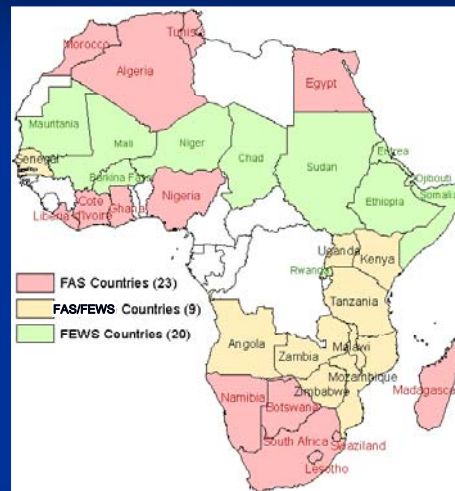
July 8, 2006



Source: USDA FAS

USDA's work in food deficit economies

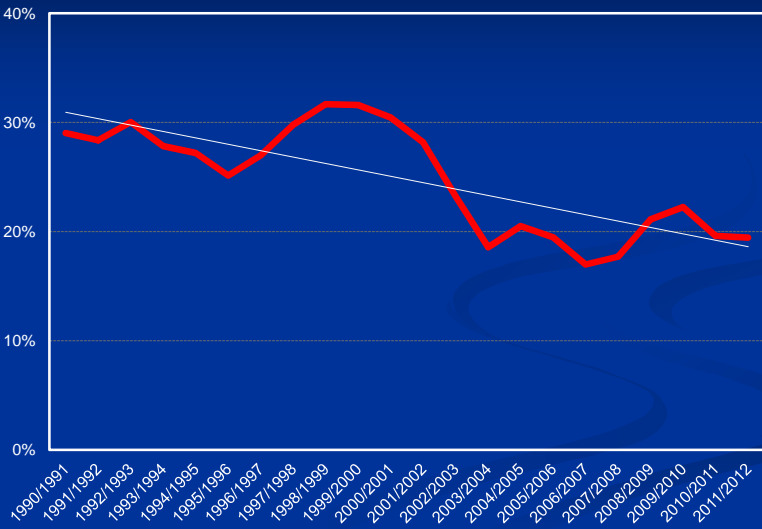
- USDA works with FEWSNET, regional intergovernmental org., and FAO to collect data in many food deficit economies.
- USDA may disagree with national governments and the UN.
 - Example: Zimbabwe, 2005



Source: USDA FAS

Stocks:
Importance of transparency of data

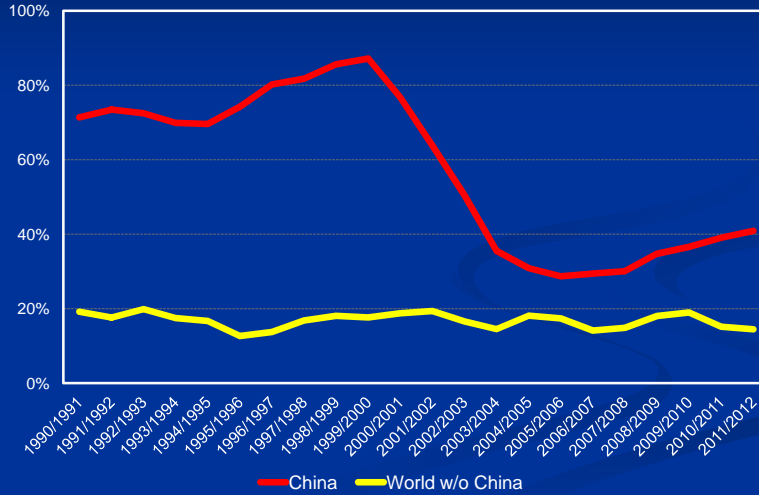
World grain stocks-to-use ratio declines in recent decades



Source: USDA PSD database

...but relatively stable outside China

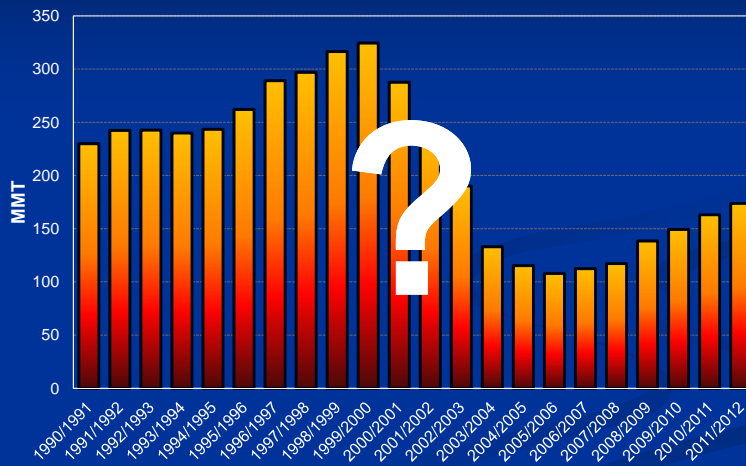
Grain stocks-to-use ratio



Source: USDA PSD database

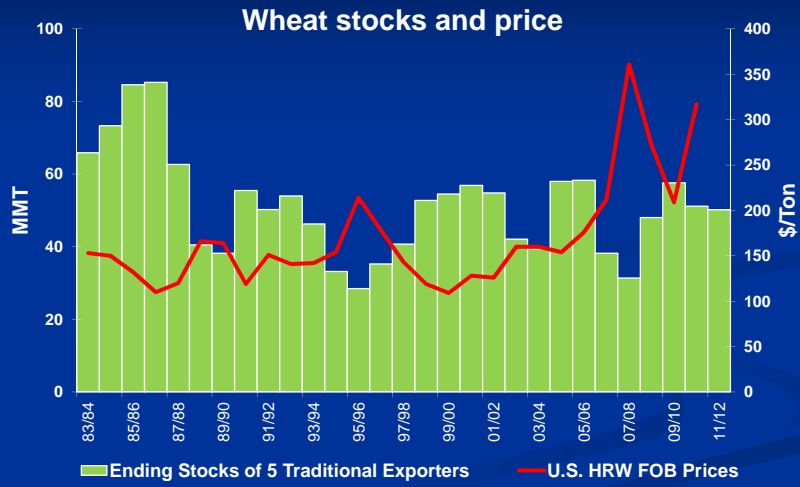
Opaque Chinese Stocks Data

China Grain Stocks



Source: USDA PSD database

World price responds to major exporters' stocks

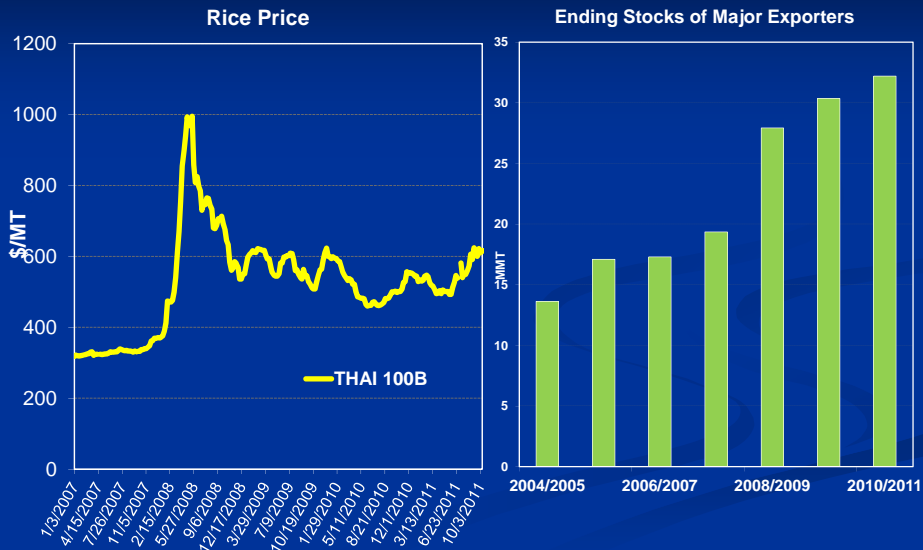


Source: USDA PSD database; International Grains Council

Trade:

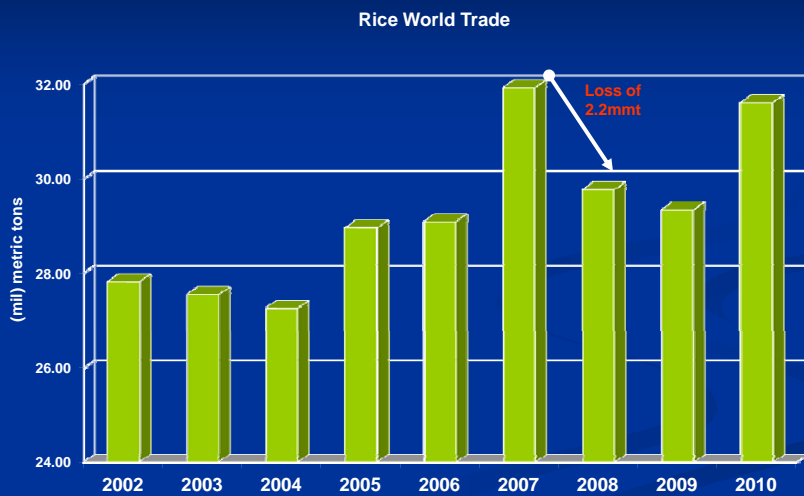
Shocks to imports and exports could be devastating to food security

Rice: Lessons from 2008



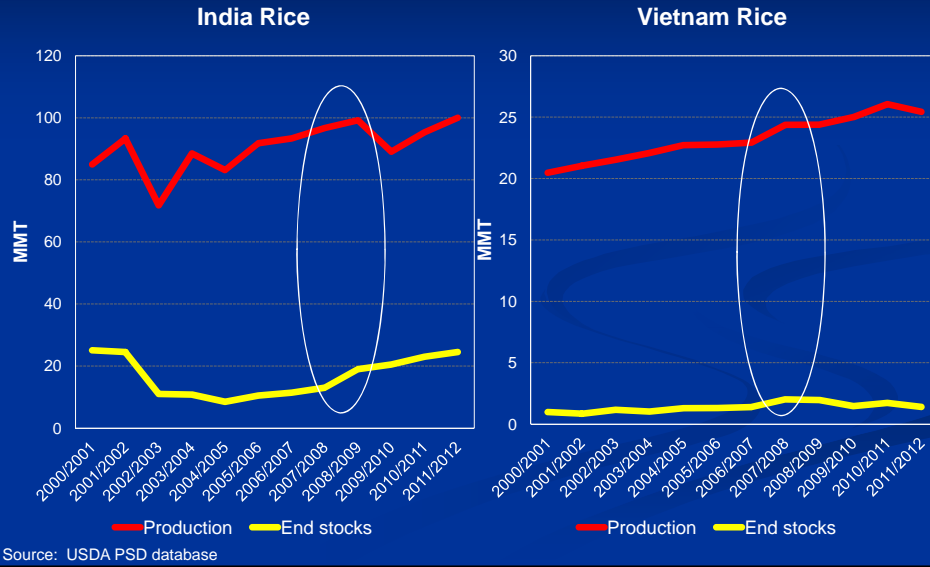
Source: USDA PSD database; International Grains Council

Export restrictions shocked the system



Source: USDA PSD database

Policy decisions ignored data



Thank You

<http://www.fas.usda.gov/>