



# Food security and Trade

WTO/ESCAP/UP Regional Workshop in Agriculture  
and Agricultural Negotiations in Asia and the Pacific



UP School of Economics  
R Clarete  
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# Purpose of the Session

- Participants improve their understanding of food security, and the role that food trade plays in attaining it.
- Participants appreciate the relationship between tradability and food price volatility of cereals.
- Participants understand why there is only thin trade in rice.
- Participants explore possible ways out of a food insecurity trap in rice.

# Dimensions of Food Security

- World Food Summit 1974: food availability
- 1980s: focus veered towards food access
- 1990s: safe utilization of food
- 2001 Food Insecurity Report: vulnerability
  - “**all people, at all times, have physical, social and economic access to sufficient, safe and nutritious** food that meets their dietary needs and food preferences for an active and healthy life”
- Dimensions: availability, access, and safe utilization of food

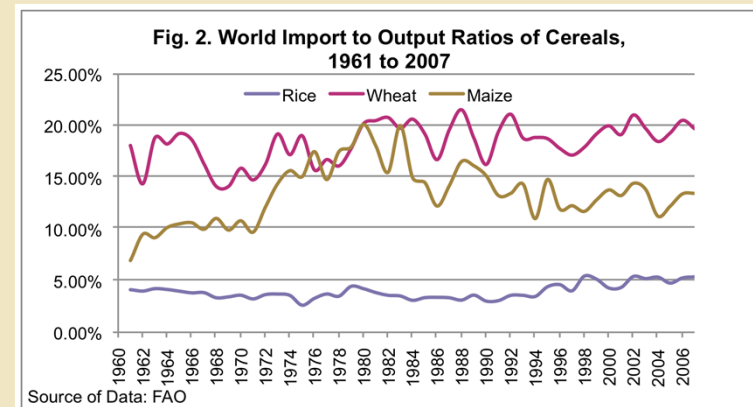
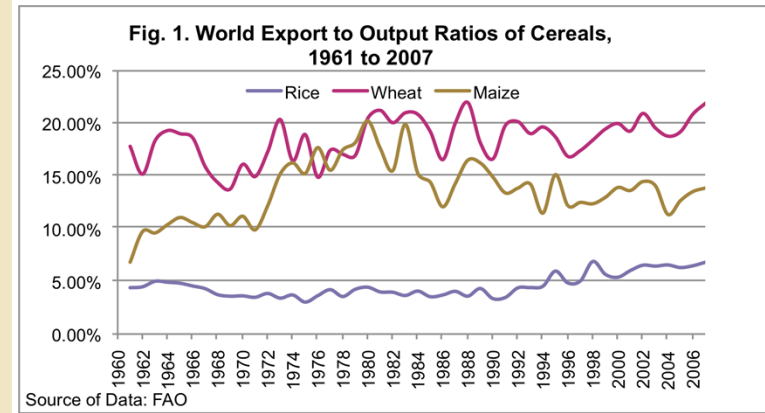
# How Tradable Are Cereals?

# How Tradable Are Cereals

- Covered cereals in this presentation: Rice, maize and wheat, but the focus of it is on rice
- Indicators: Imports to production (MOR) and exports to production ratios (XOR)
- Annual indicators from 1961 to 2007
- Data comes from FAOstat

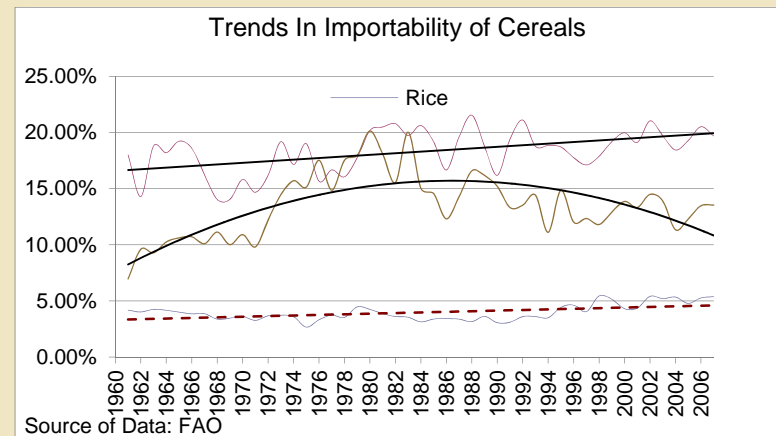
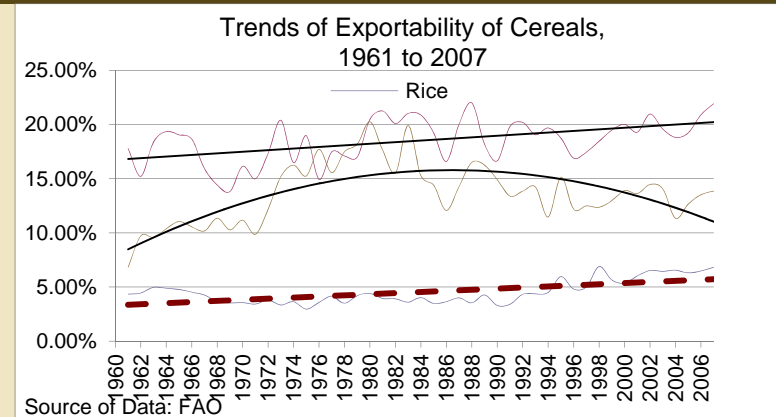
# Relative Tradability of Cereals

- Wheat is most tradable (average export to output ratio or XOR= 18.51 %; to output ratio or MOR=18.3 %)
- Maize is next (XOR=13.64 %; MOR = 12.35 %)
- Rice turned out to be the least tradable (XOR= 3.98 %; MOR=.3.97 %)



# Rising Tradability of Cereals

- Tradability of wheat and rice has been rising
- Trend is pronounced in case of wheat, less so with rice
- Tradability of maize has risen until the 70s, then it declined



# Volatility of Tradability of Cereals

Among cereals, rice's importability, i.e. tradability, is the most unstable (volatility index for rice is 74.03 % compared to 62 % for wheat and 68 % for maize).

Accordingly, the volatility indices of XORs are 73.83 % and 69.03 % for rice and wheat, respectively.

They are likely to be more unstable than MORs.

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_7402](https://www.yunbaogao.cn/report/index/report?reportId=5_7402)

