Factors contributing to the sharp rise, and then fall, in food commodity prices: 2002-2009



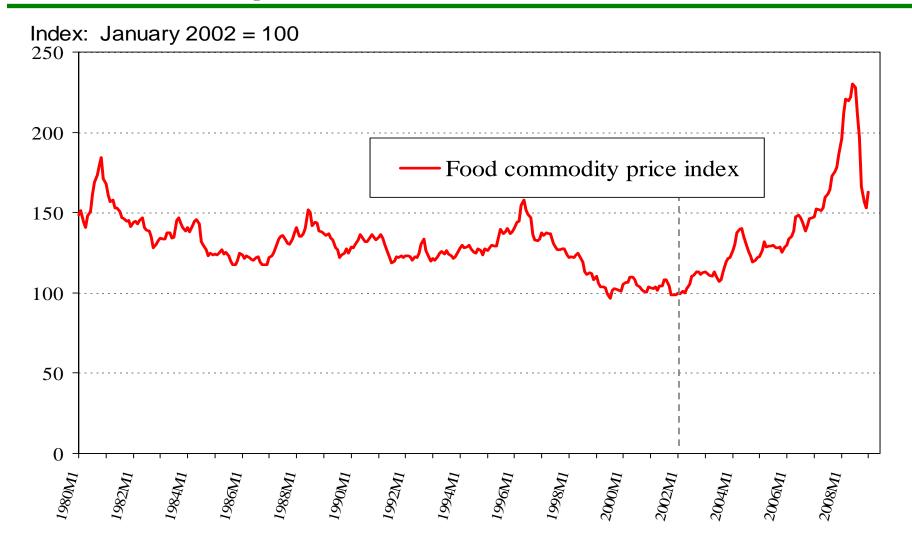


Factors contributing to the sharp rise, and then fall, in food commodity prices: 2002-2009



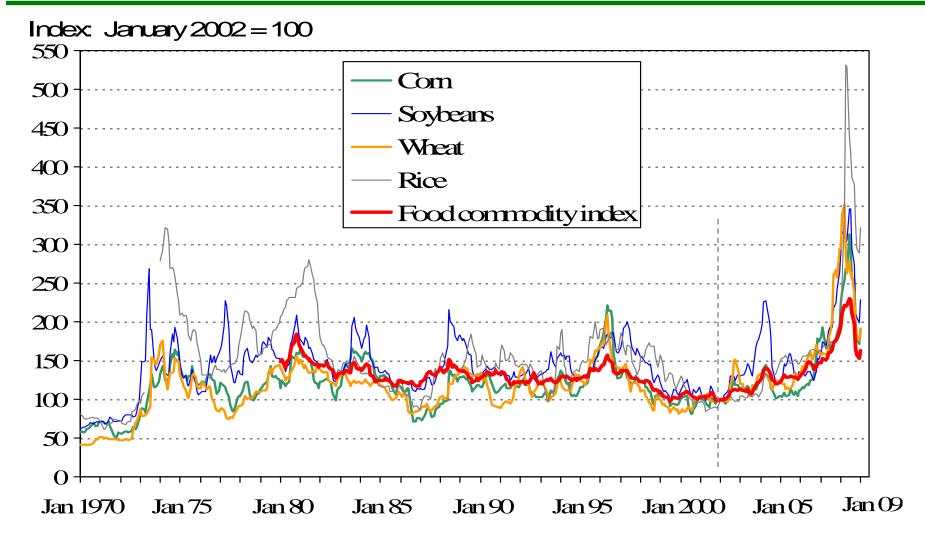


Food commodity prices since January 2002: Up 130 %, then down 1/3





Food commodity prices: Indices for selected crops and total food





Nominal price increases since January 2002 and declines since the peak

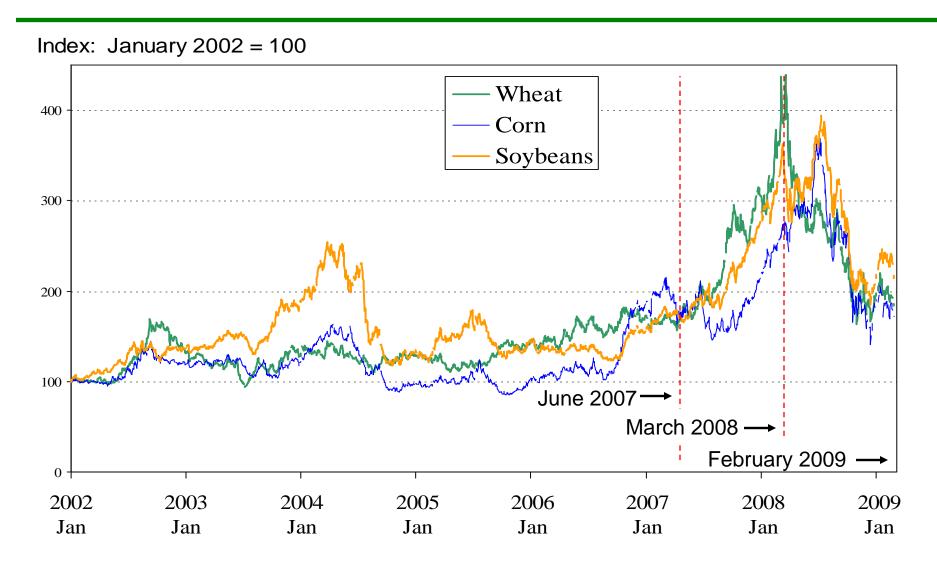
Commodity	<u>Up</u>	Down ¹	Since peak in
Wheat	337 %	62 %	Mid March, 2008
Corn	268 %	62 %	End of June, 2008
Soybeans	295 %	53 %	Early July, 2008
Rice	> 400 %	36 %	Late Sept, 2008
Index of food	130 %	34 %	June, 2008
commodities			

¹Lowest price since peak, as of February 23, 2009.

Kansas City for wheat; Central Illinois for corn and soybeans. CBOT for rice

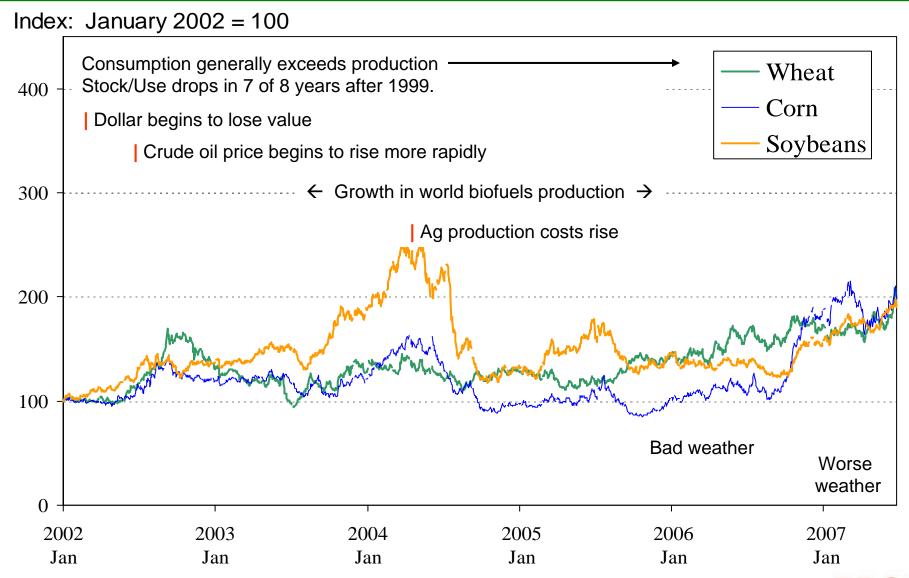


January 2002 - February 2009: Three periods of price changes





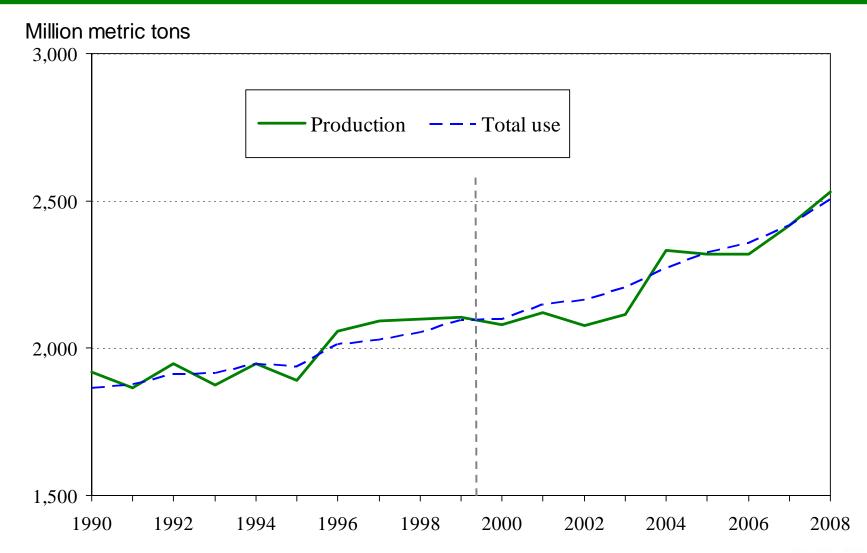
January 2002 – July 2007





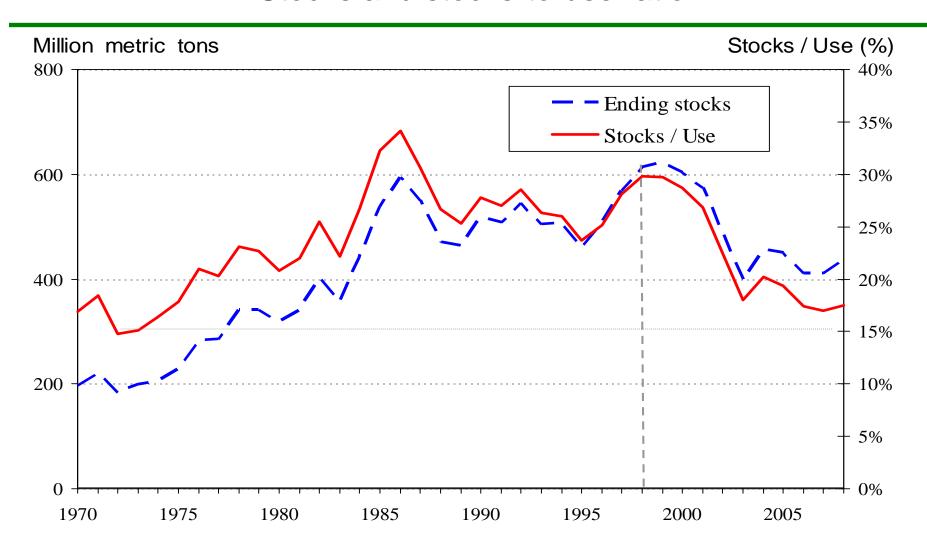
World grain & oilseeds

Total production and use



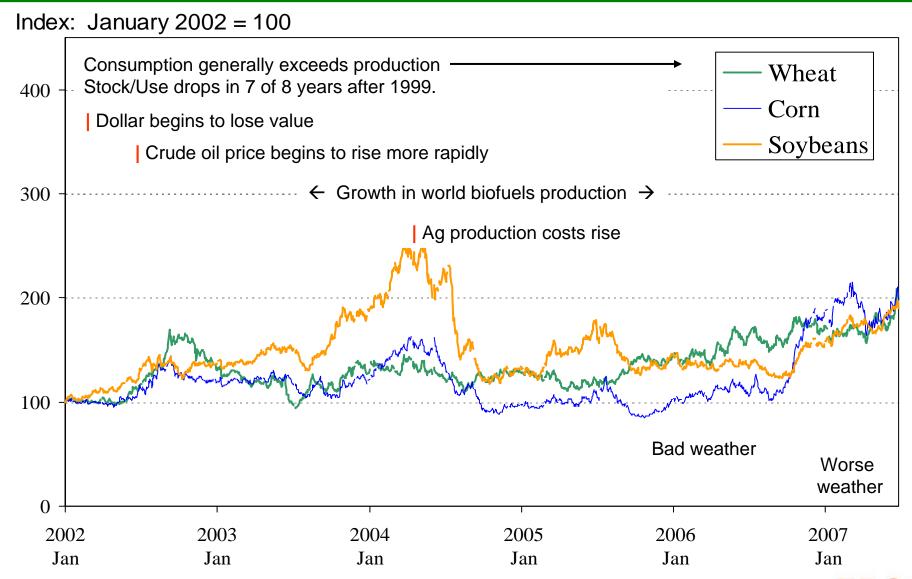
Total world grain & oilseeds

Stocks and stocks-to-use ratio



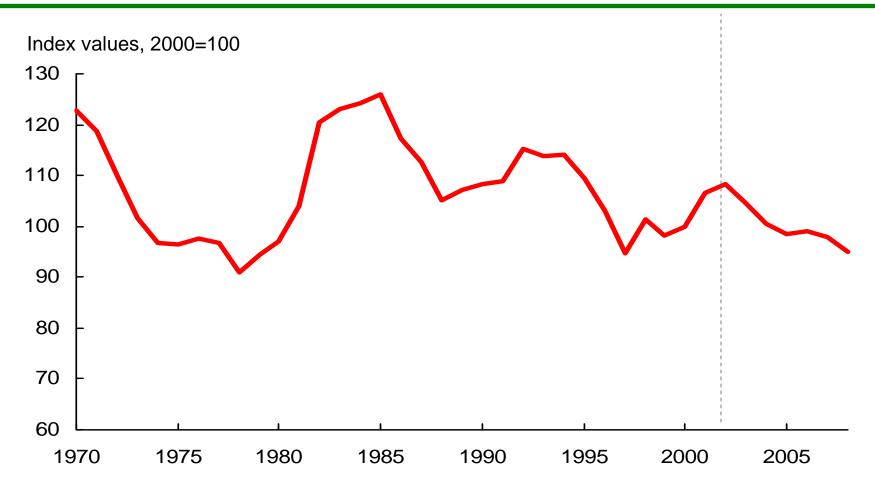


January 2002 - July 2007





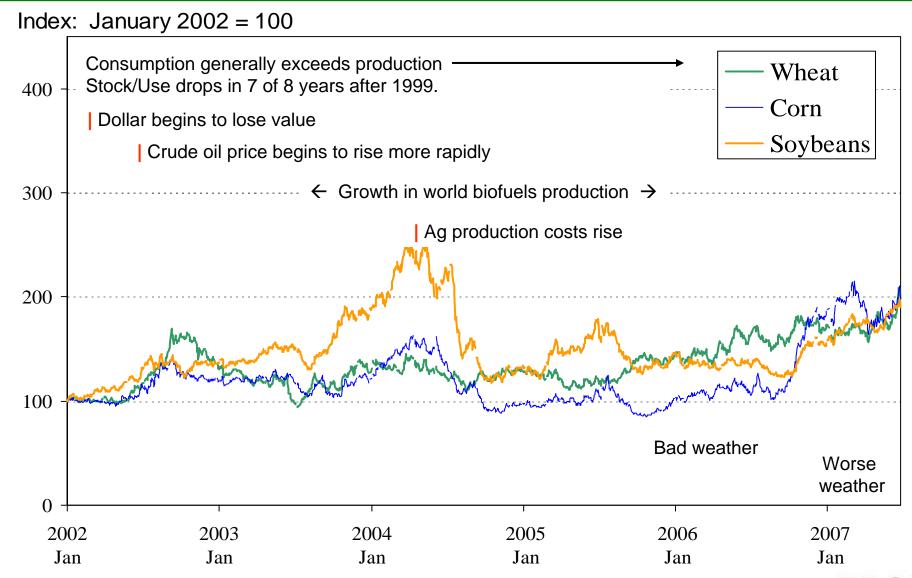
Value of U.S. dollar declines after 2002 1/



1/ Real U.S. agricultural trade-weighted dollar exchange rate, using U.S. agricultural export weights, based on 192 countries.



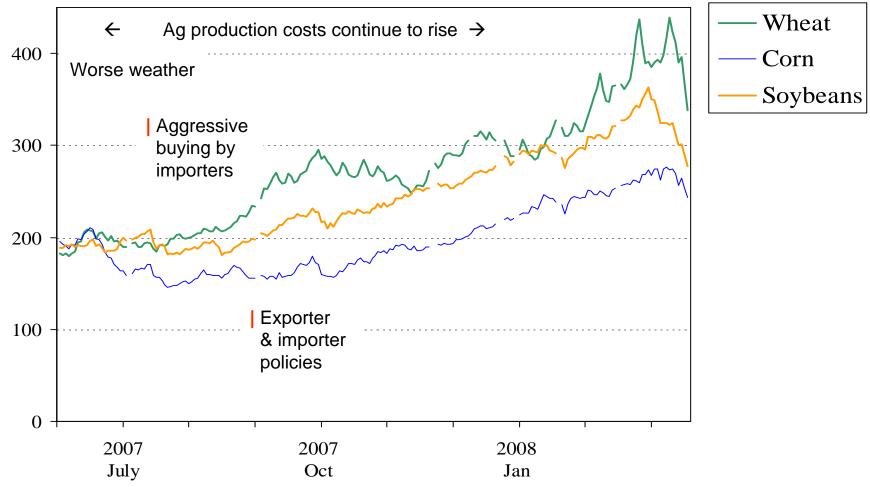
January 2002 - July 2007





July 2007 – March 2008

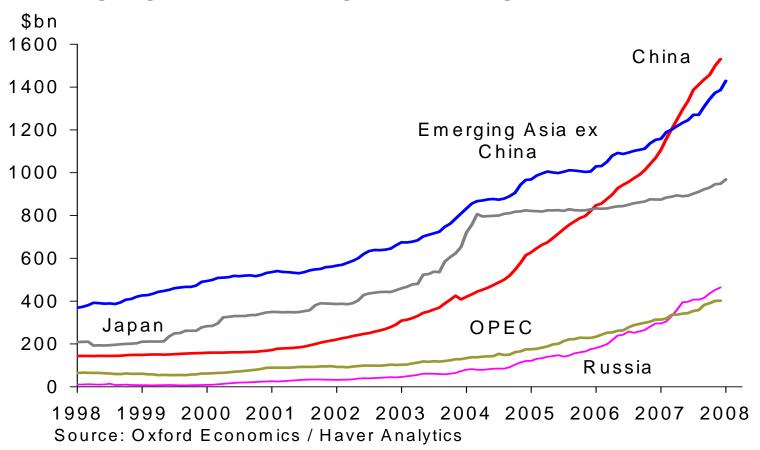






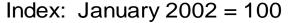
Foreign Exchange Reserves

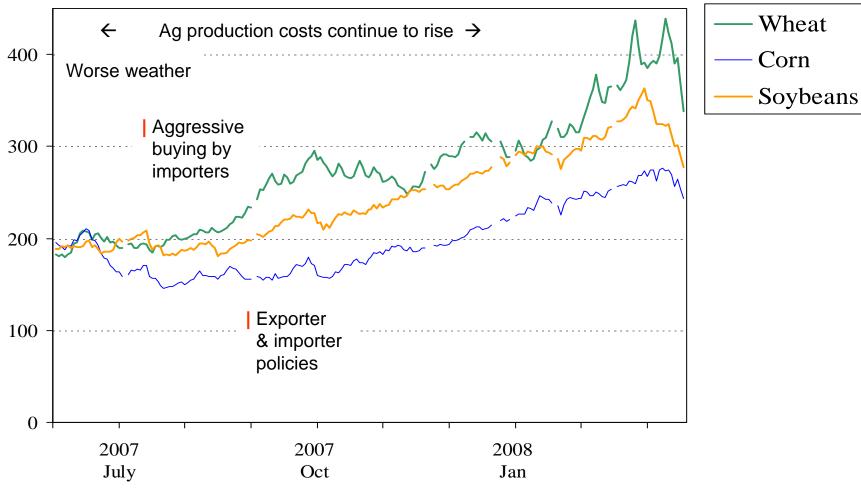
Emerging Asia: Foreign exchange reserves





July 2007 – March 2008







Policy responses to rising prices by selected countries - <u>Exporters</u>

Country	Raised	Export	Export
	export	volume	bans
	taxes	restrictions	
Argentina	X	X	
Cambodia			X
Egypt			X
Kazakhstan		X	
Russia	X		
Ukraine			X
Vietnam	X		X
China	X	X	
India	X	X	X
Indonesia	X		
Malaysia	X		
Serbia			Х



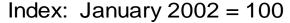
Policy responses to rising prices by selected countries – <u>Importers</u> 1/

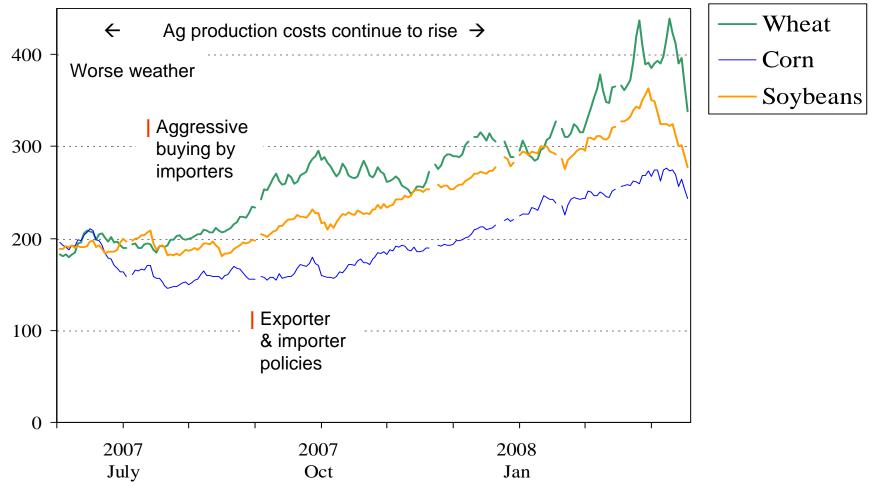
Country	Reduced import tariffs	Increased consumer subsidies	Imposed price caps
Bangladesh	Х	Х	X
EU	X		
Mexico	X		
Morocco	X		
Mongolia		X	
Philippines		X	
Thailand	X		
China		X	X
India	X	×	
Indonesia	X	X	
Malaysia			X
Serbia	X		

^{1/} Countries in red font employed both import and export policies



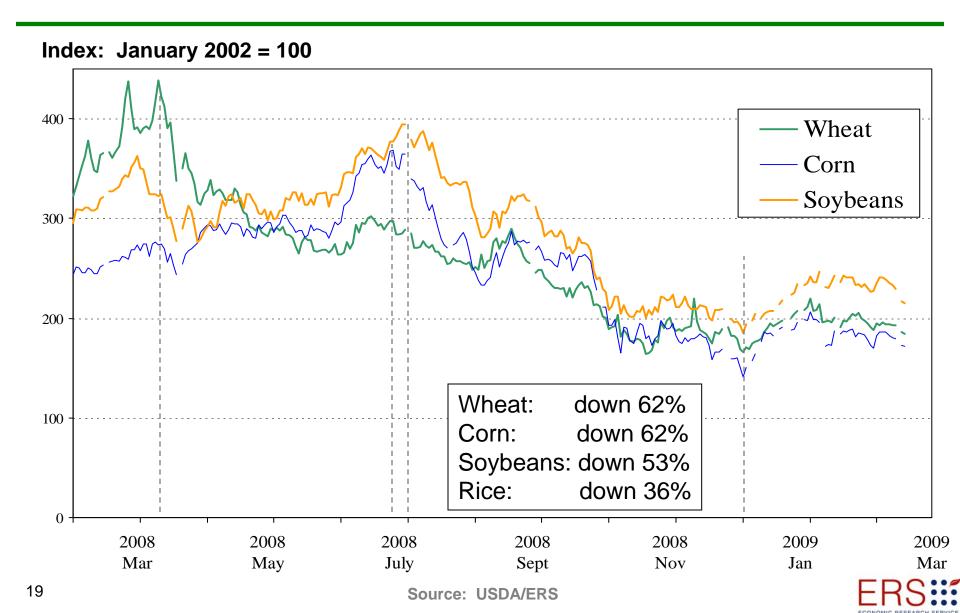
July 2007 – March 2008



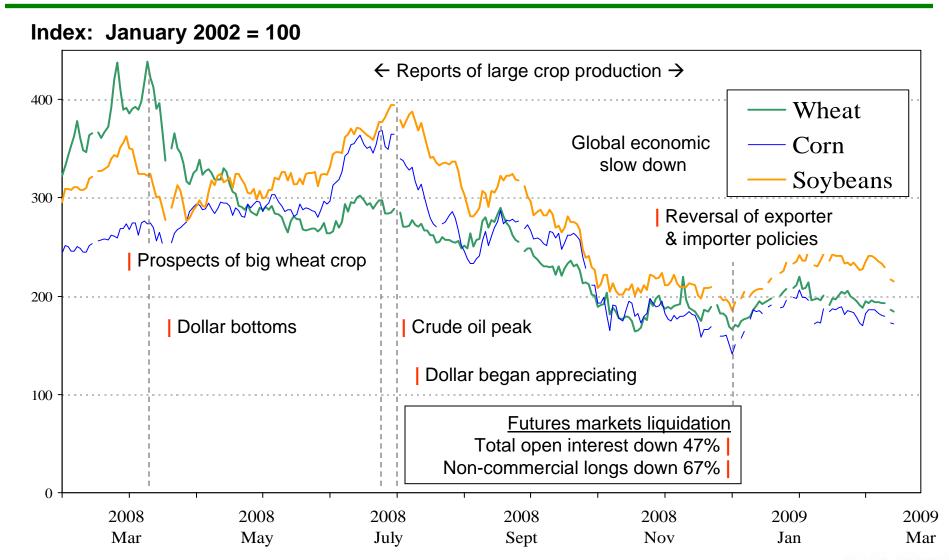




March 2008 - February 2008

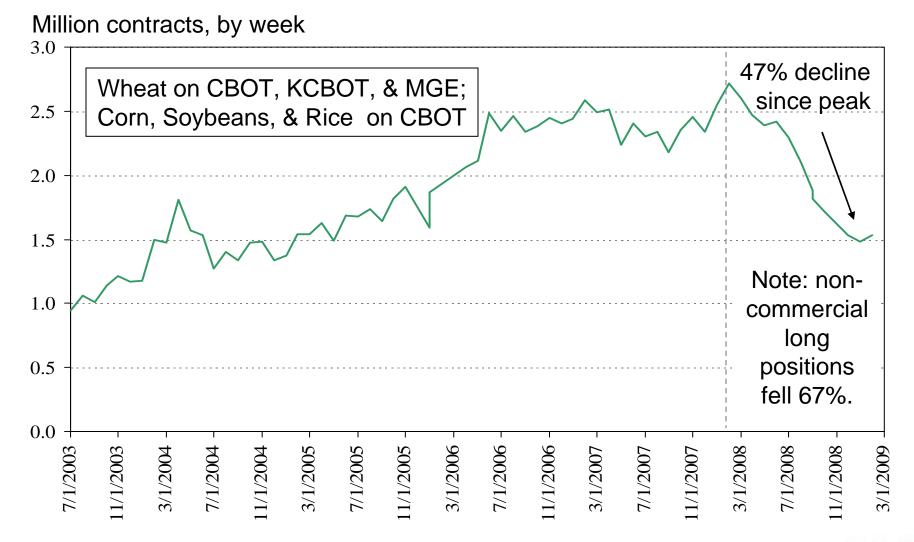


March 2008 - February 2009



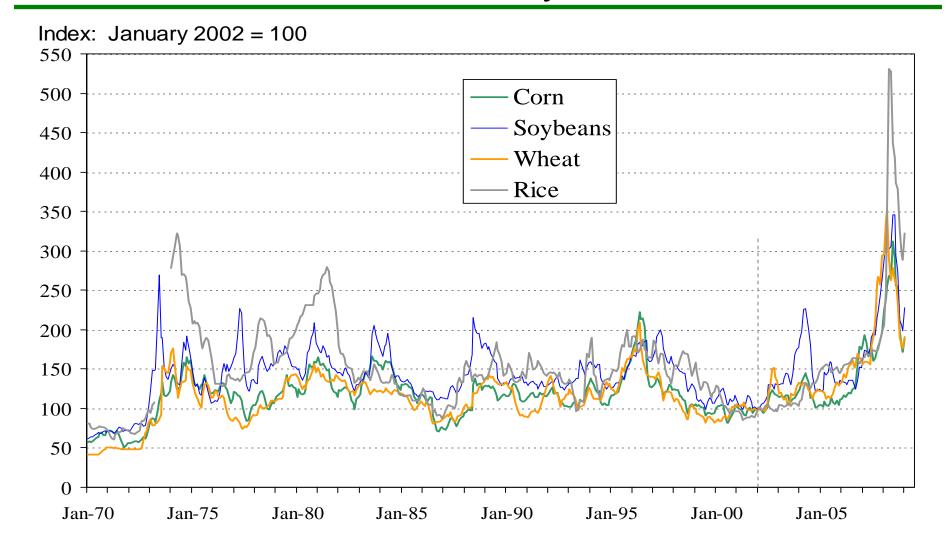


Total Open Interest: U.S. Futures Markets for Wheat, Corn, Soybeans, and Rice





Spikes in food commodity prices: Will this time be any different?





Factors contributing to changes in food commodity prices

Temporary factors:

- Adverse weather
- Trade policies by exporters and importers
- Aggressive buying by importers

Continuing upward pressure on prices Demand factors: Supply factors:

- Economic growth in many developing countries
- Population growth in developing countries
- Increasing per capita meat consumption
- Continued biofuels production

Relatively high energy prices

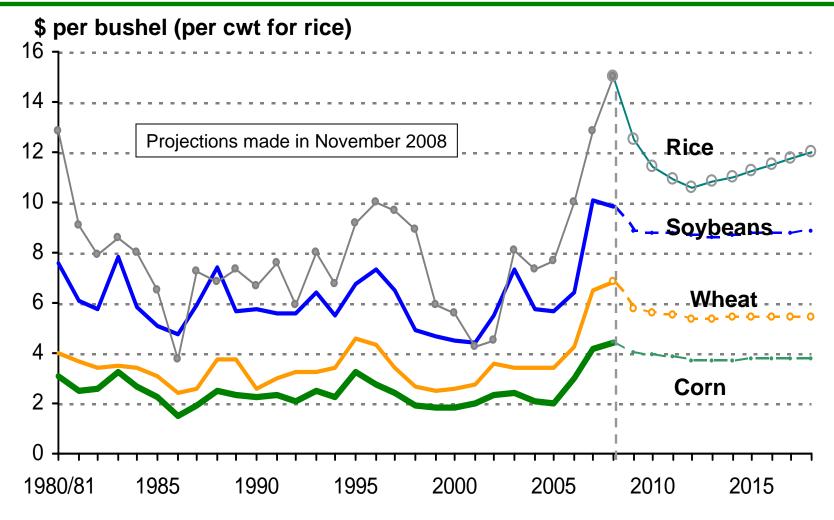
- Ag production costs
- Slowing growth in total crop production

Supply factors

Demand factors



U.S. commodity prices: soybeans, wheat, corn & rice History, current year, & projections





Global Agricultural Supply and Demand: Factors Contributing to the Recent Increase in Food Commodity Prices

A report available at:

http://www.ers.usda.gov/publications/WRS0801.pdf

Ronald Trostle
Economic Research Service
U.S. Department of Agriculture
rtrostle@ers.usda.gov
202-694-5280

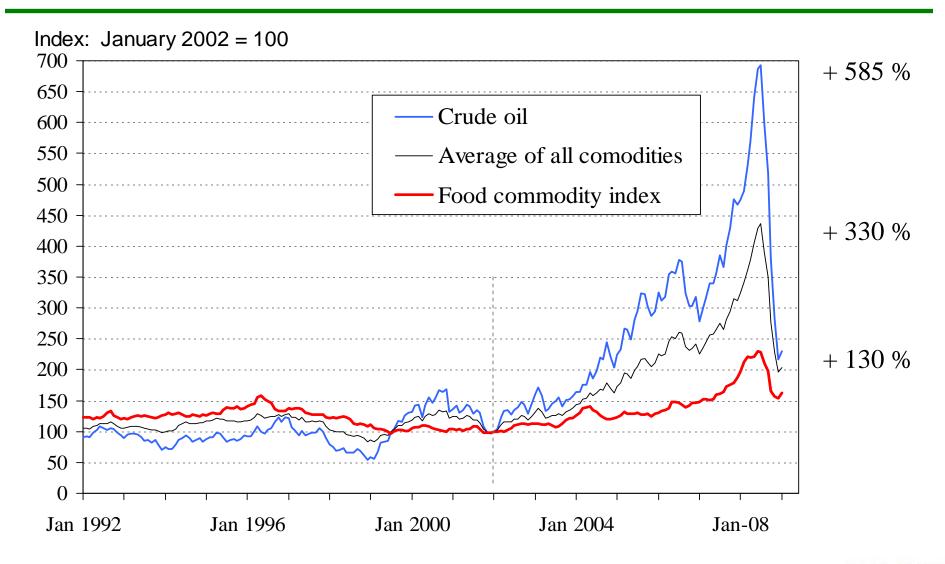


End of slides used in presentation

The following slides provide more detail on various aspect of the story.



Prices of many commodities rose even more

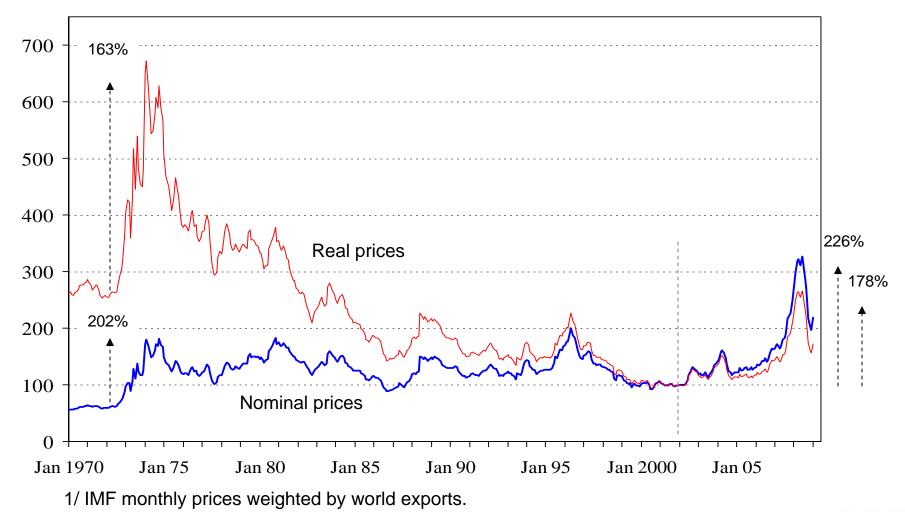




Crop price increases: real vs. nominal

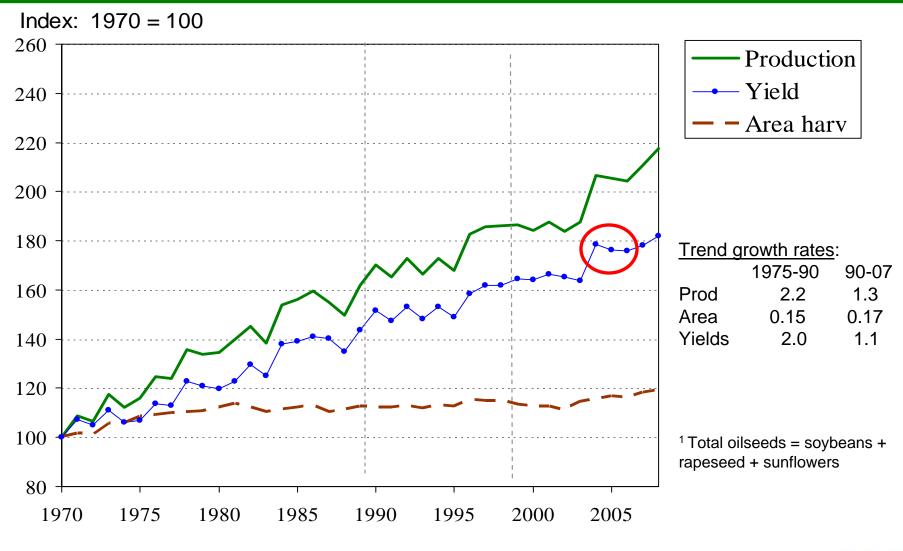
Weighted average of 4 crops (wheat, soybeans, corn & rice) 1/

Index: January 2002 = 100



Total world grain & oilseeds¹

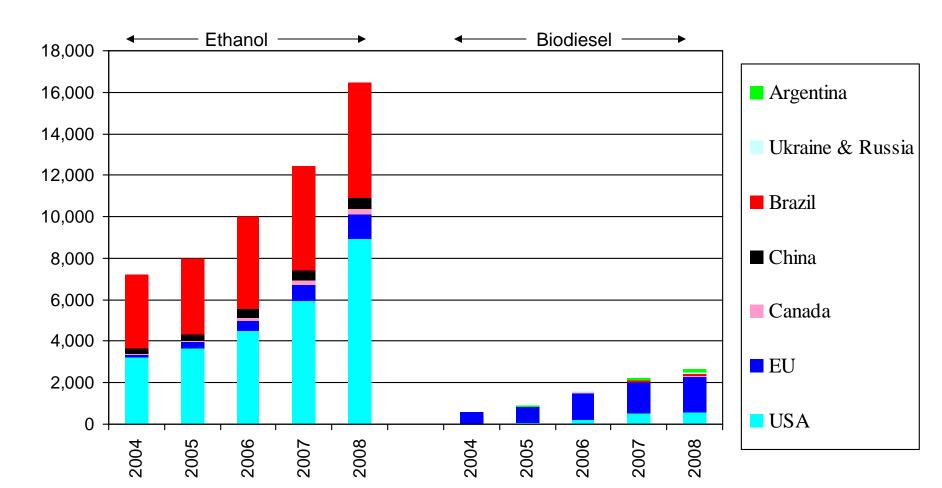
Production, yield, & area harvested





Biofuels production: Largest producers

Million Gallons







Adverse weather reduced production:

- > In 2006
 - Australia
 - Ukraine & Russia
- > and 2007
 - Europe: dry spring; harvest floods
 - SE Europe: drought
 - Ukraine & Russia: drought (2nd year)
 - USA: late spring freeze
 - Canada: hot and dry
 - Australia: 2nd year of severe drought
 - NW Africa: drought
 - Turkey: dry

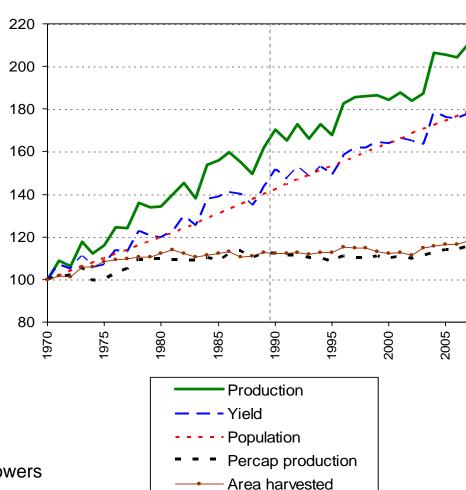


Total world grain & oilseeds¹

Production, yield, area harvested, population & percap production

Index: 1970 = 100

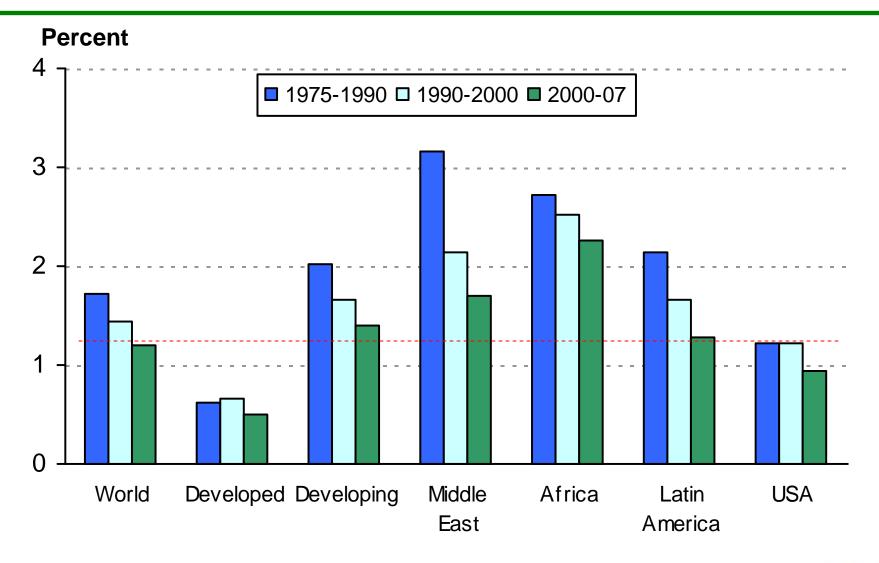
Exponential trend growth rates :			
Production Yields Area	1970-90 2.2 2.0 0.15	90-07 1.3 1.1 0.14	
Population Per capita production	1.7 0.56	0.11	



¹ Total oilseeds = soybeans + rapeseed + sunflowers

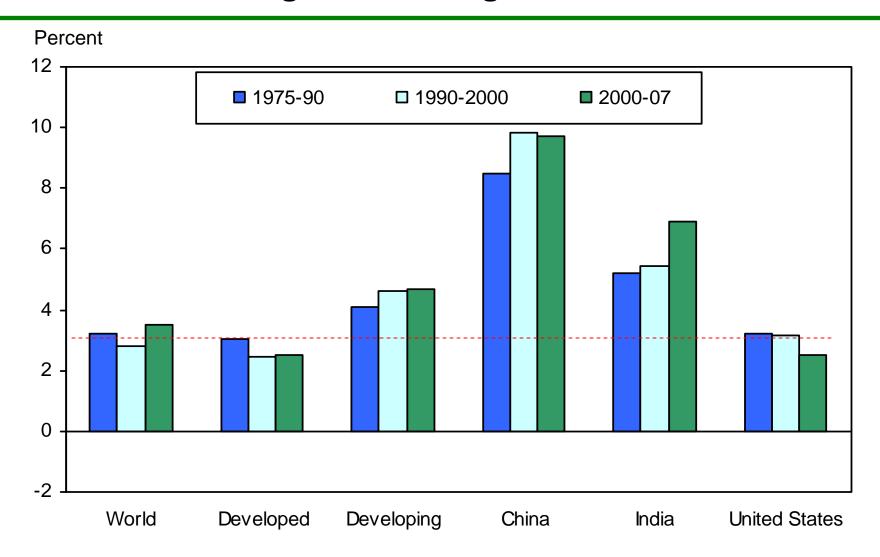


Population growth rates decline (Percent by period)





Strong economic growth **Average Real GDP growth rates**



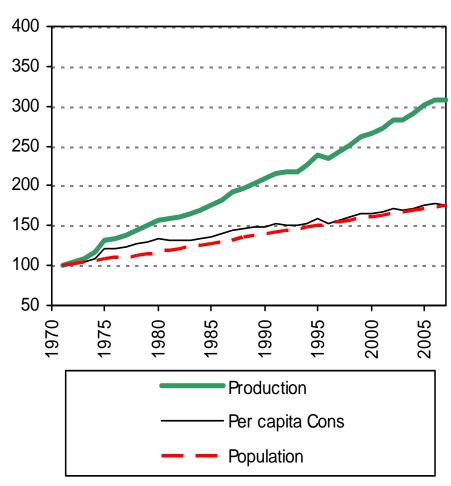


Global meat¹

Production, per capita consumption, and population

	1975-90	90-07
Production	3.1	2.5
Population	1.7	1.4
Per capita	1.4	(1.1)
consumptio	n	

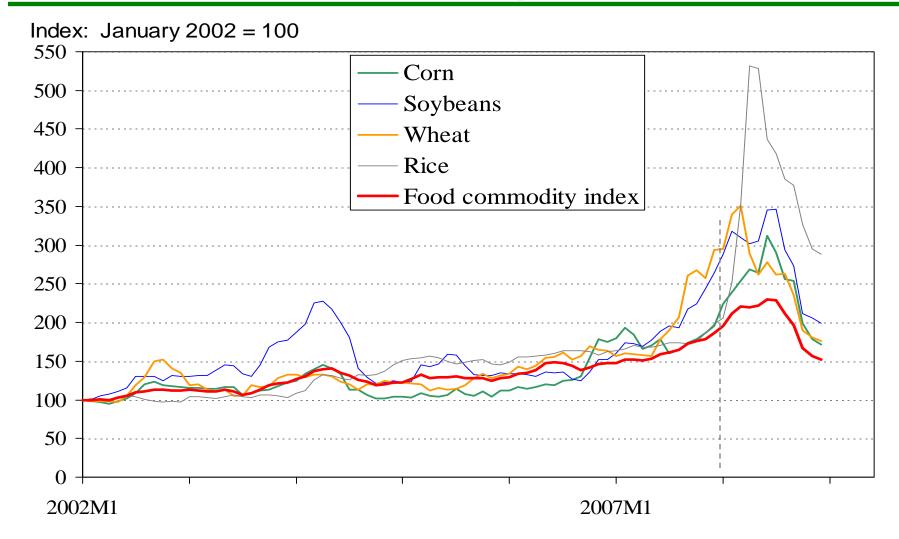






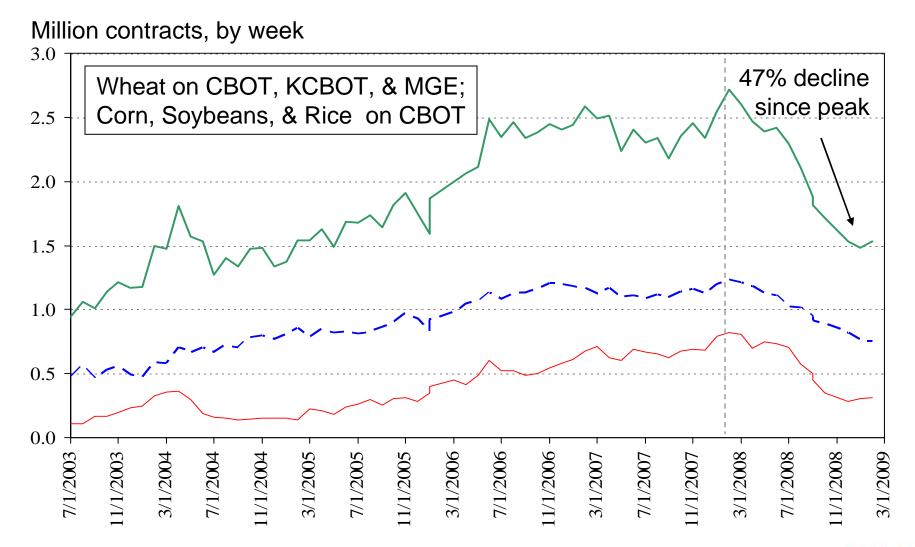
¹ Total meat = beef + pork + chickens & turkeys.

Food commodity prices: Indices for selected crops and total food





Total Open Interest: U.S. Futures Markets for Wheat, Corn, Soybeans, and Rice





Nominal price increases since January 2002 and declines since the peak

Commodity	<u>Up</u>	Down ¹	Since peak in 2008
Wheat	337 %	62 %	Mid March
Corn	268 %	62 %	End of June
Soybeans	295 %	53 %	Early July
Rice	> 400 %	36 %	Late September
4-crop average	247 %	40 %	April
Index of food	130 %	34 %	June
commodities			

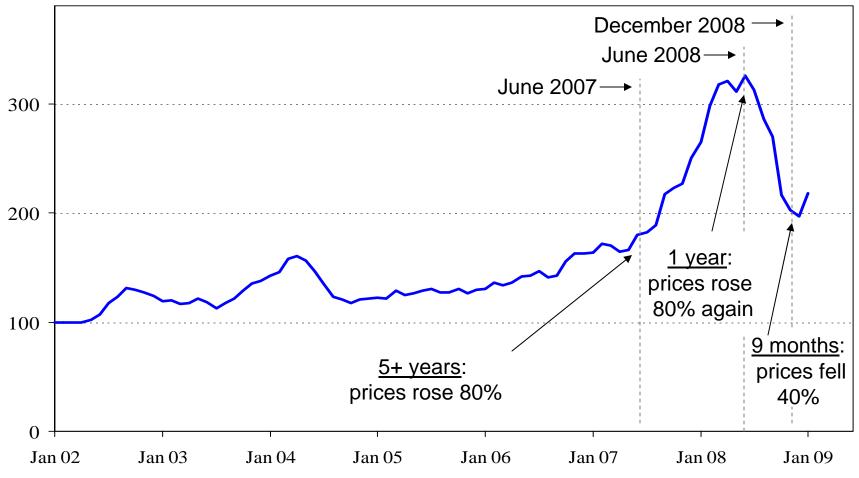
¹Lowest price since peak, as of January 29, 2009. Kansas City for wheat; Central Illinois for corn and soybeans.



Nominal Crop Price Index

Weighted average of 4 crops (wheat, soybeans, corn & rice) 1/

Index: January 2002 = 100



1/ IMF monthly prices weighted by world exports.



Conditions in the summer of 2007:

- Dollar was weak
- Oil price was record high
- Production costs were high
- Biofuels production had been expanding rapidly
- World consumption growing faster than production
- Low stock/use ratio

Also

- Foreign exchange reserves were large and growing
- Involvement of funds were increasing



Factors contributing to higher food commodity prices

1996 1998 2000 2002 2004 2006 2007 2008 Strong growth in demand, based on: Increasing population Strong economic growth + Rising per capita meat consumption Slowing growth in agricultural production Declining demand for stocks of food commodities Escalating crude oil price Rapid expansion of biofuels production Dollar devaluation Rising farm production costs Adverse weather Large foreign exchange reserves Demand factors in yellow Aggressive purchases by Supply factors in green importers **Exporter policies** Importer policies