



THE WORLD BANK



WORKSHOP

Growth and Inclusion: Theoretical and Applied Perspectives

Session I

Food Inflation: Drivers and Policy Implications

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January 12, 2012

The Claridges Hotel
12 Aurangzeb Road
New Delhi, India



Food Inflation: Drivers and Policy Implications

***Subir Gokarn
Deputy Governor
Reserve Bank of India***

***Seminar on
Growth and Inclusion:
Theoretical and Applied Perspectives***

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Structure of Presentation

- ◆ Characteristics of food inflation
- ◆ Demand factors
- ◆ Supply factors
- ◆ Policy implications



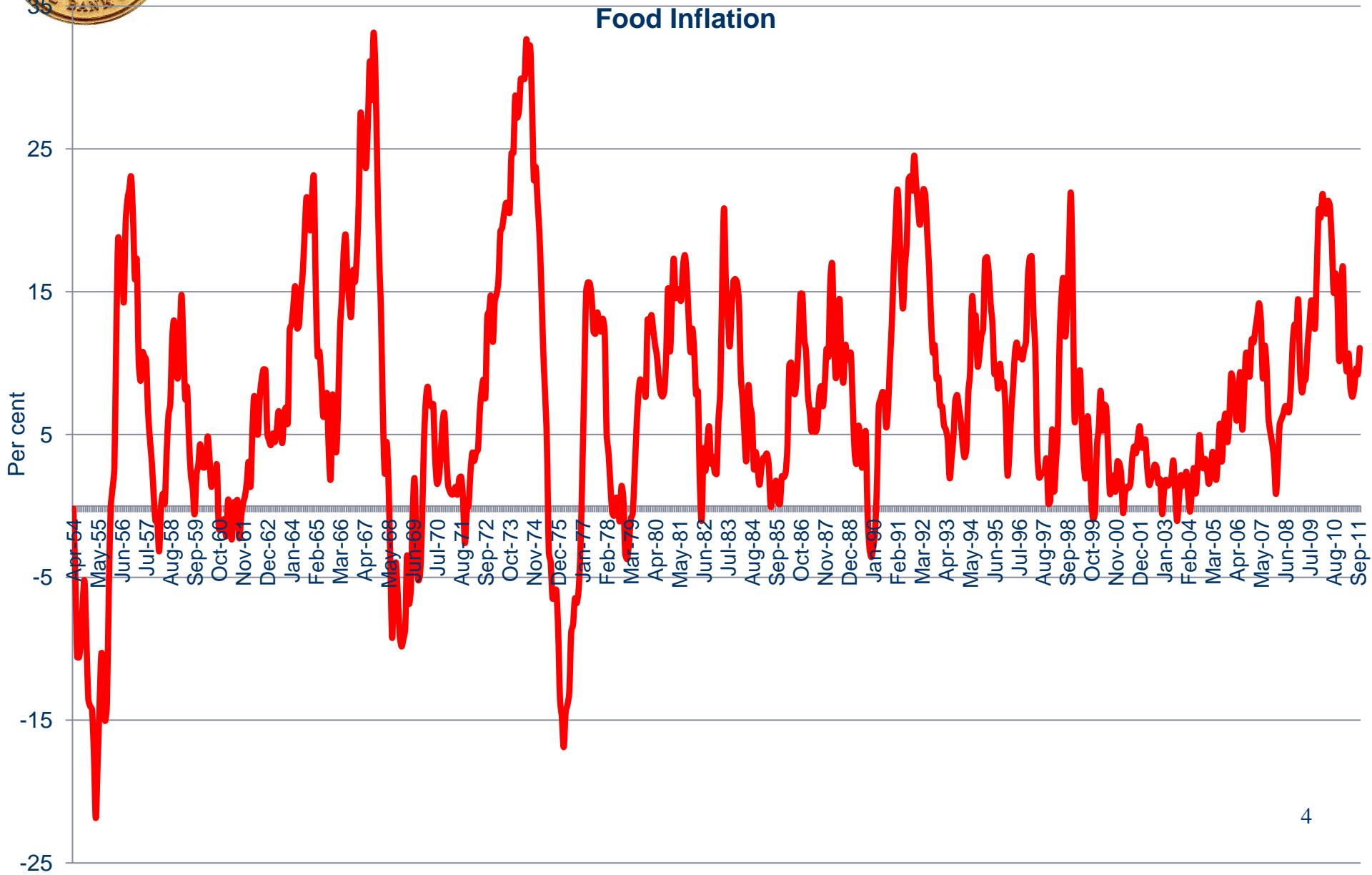
CHARACTERISTICS OF FOOD INFLATION



Food Inflation in India

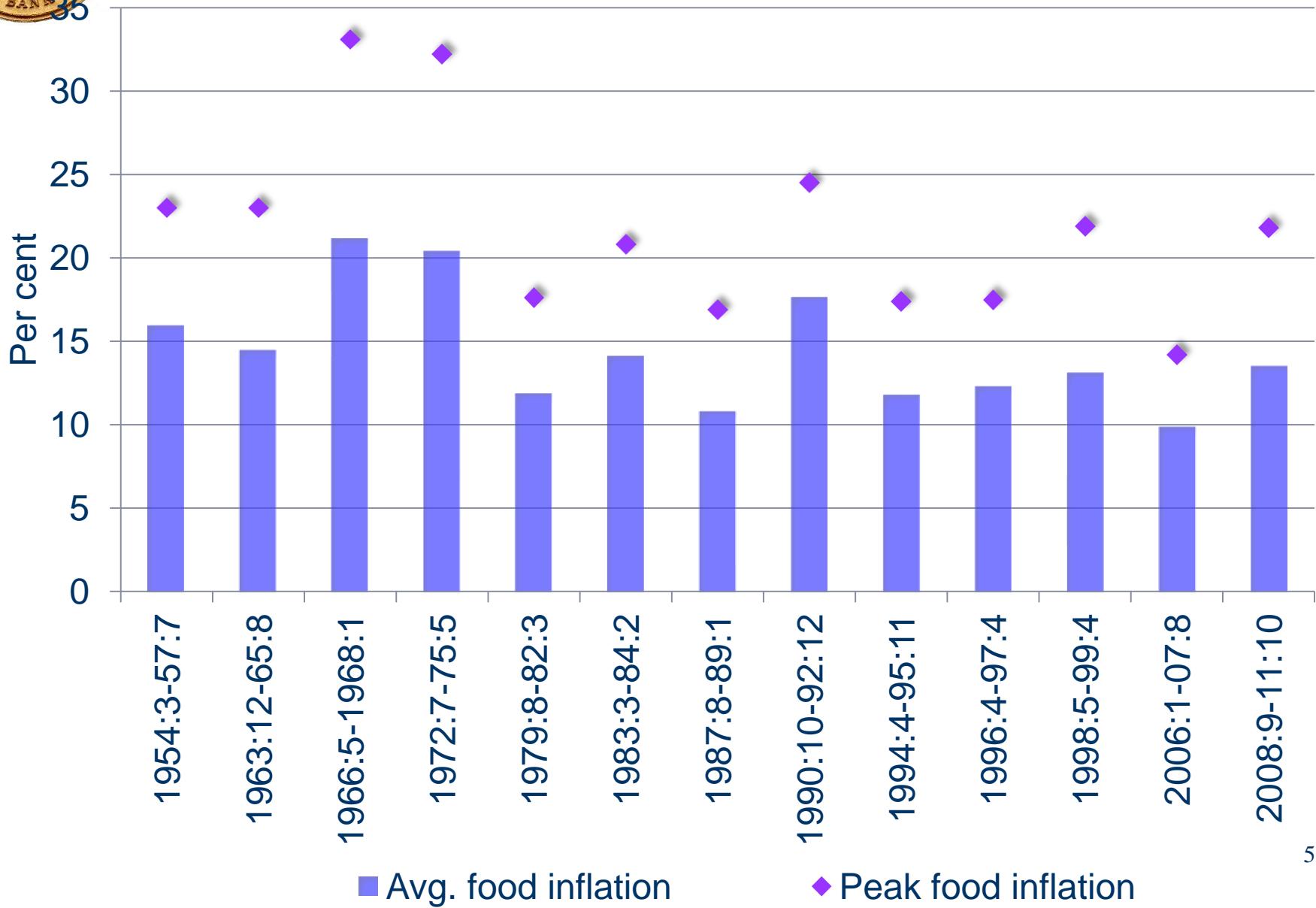
A Long View

Food Inflation





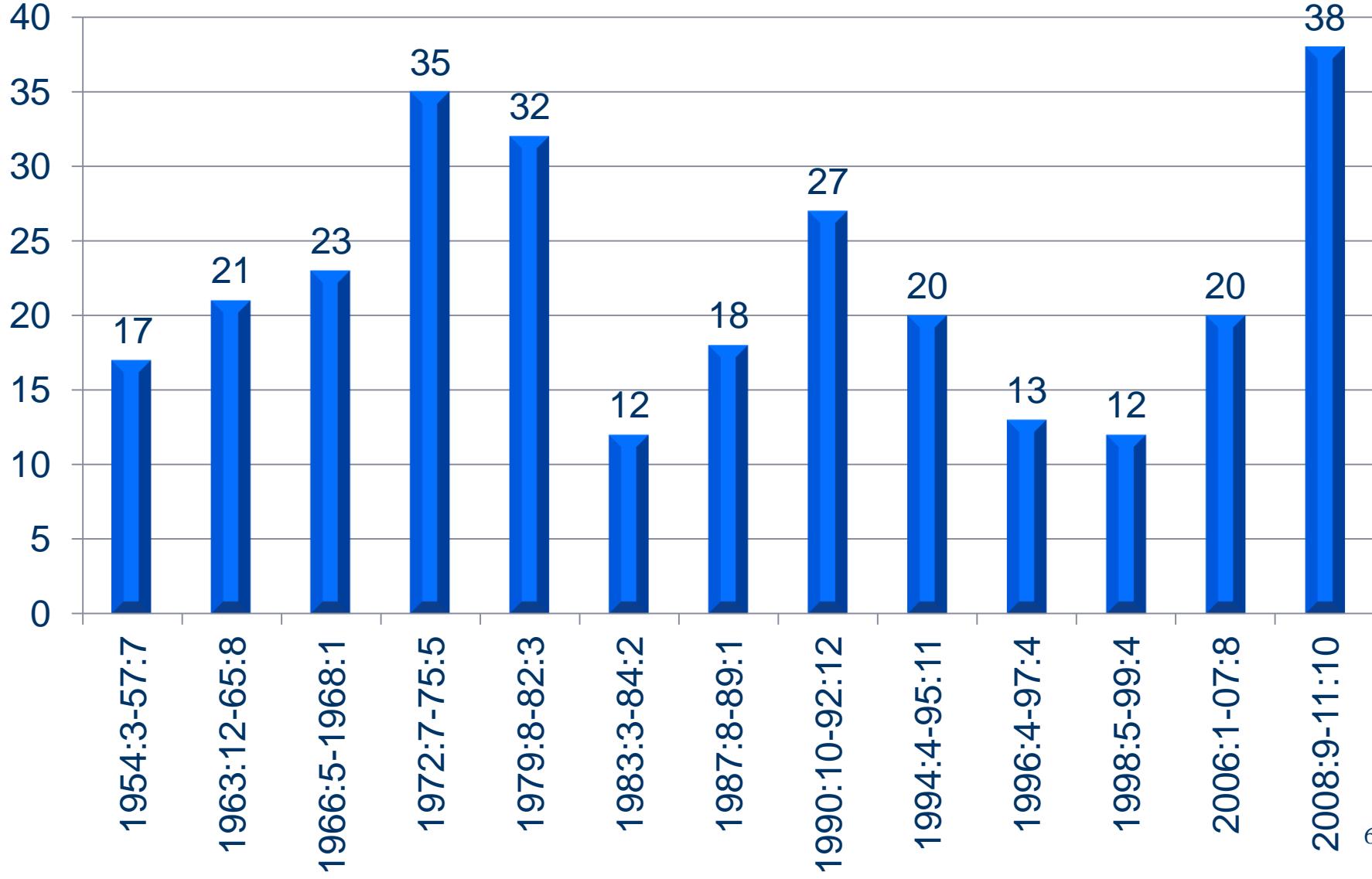
Persistence of Food Inflation





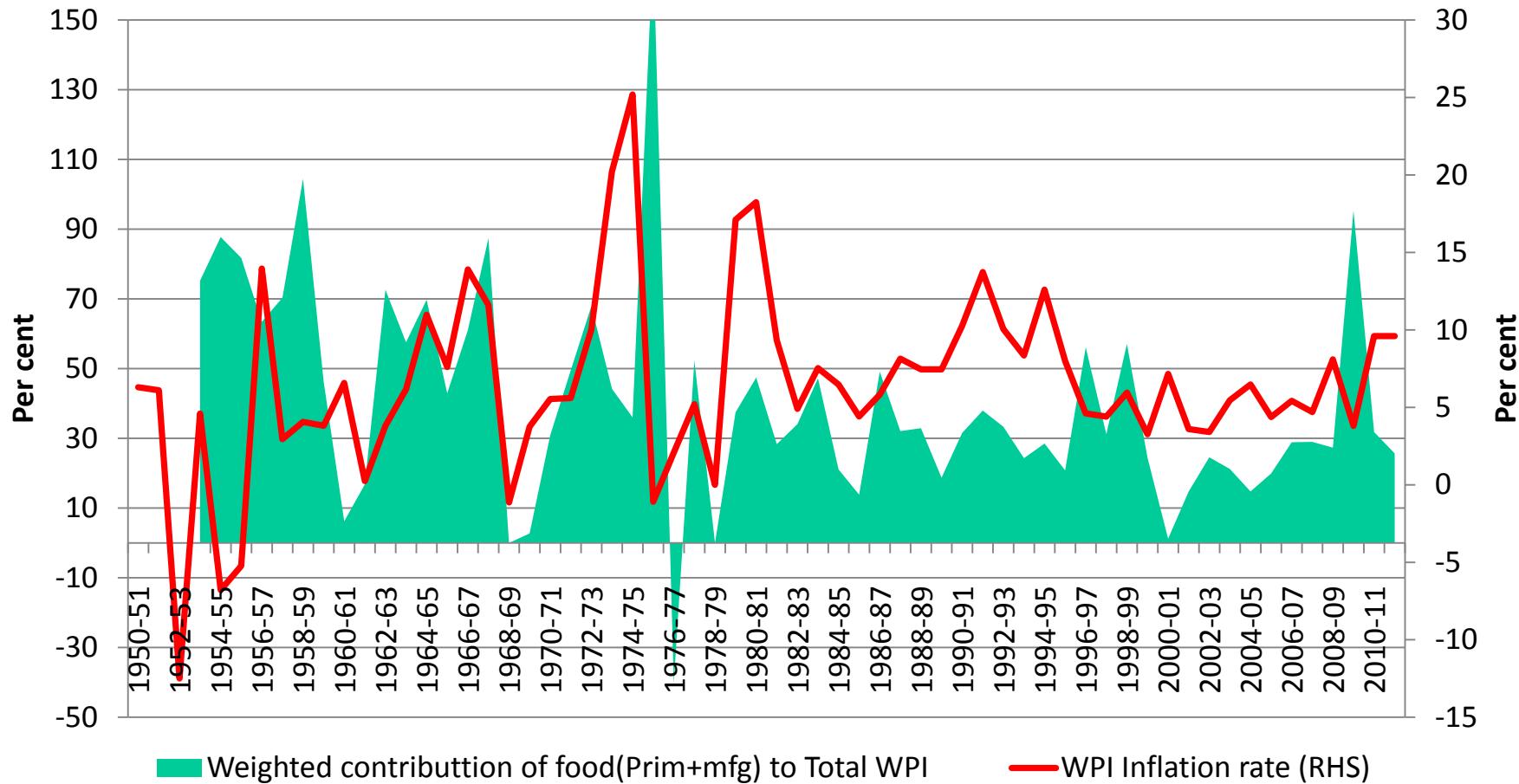
Persistence of Food Inflation...2

Number of months



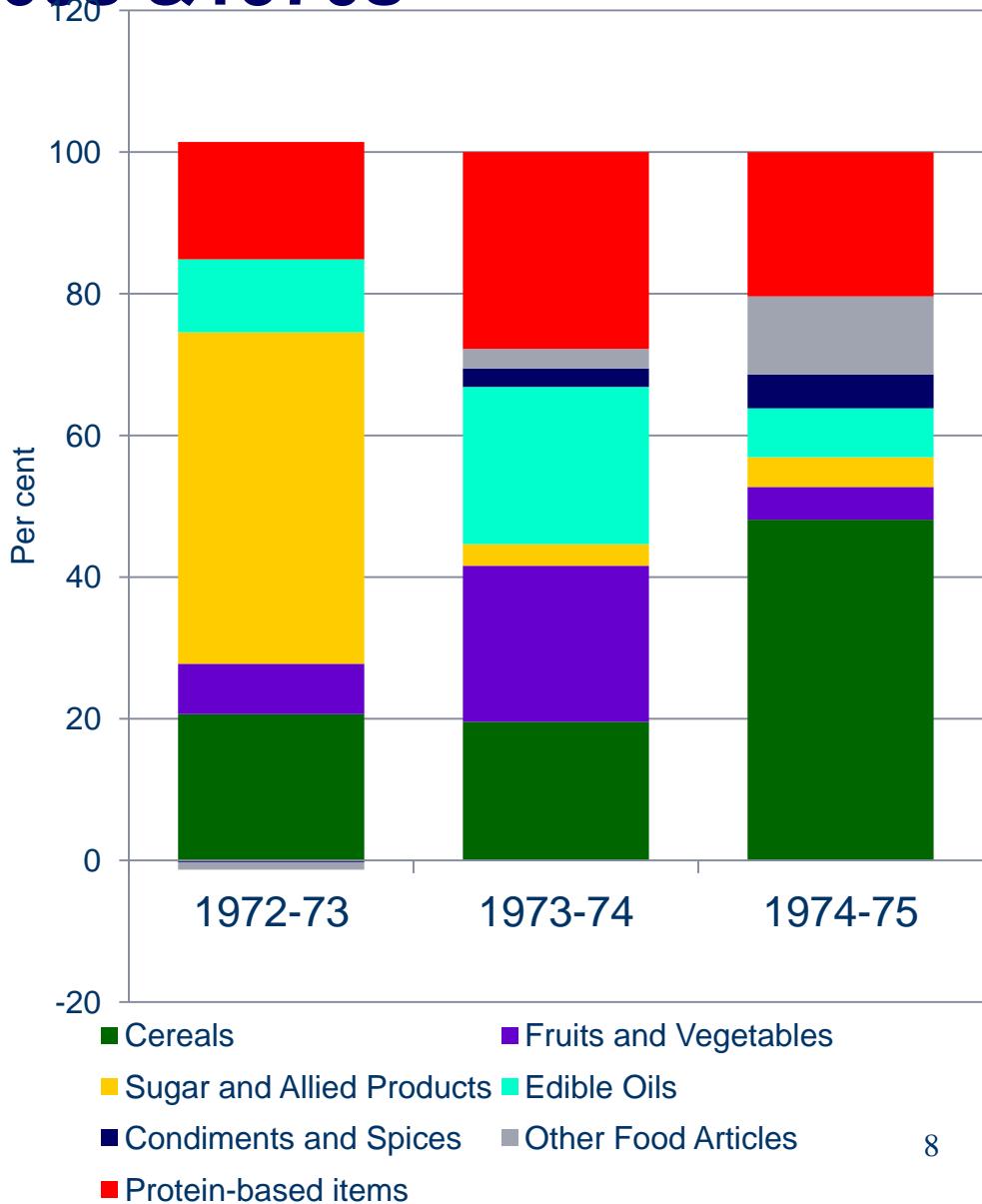
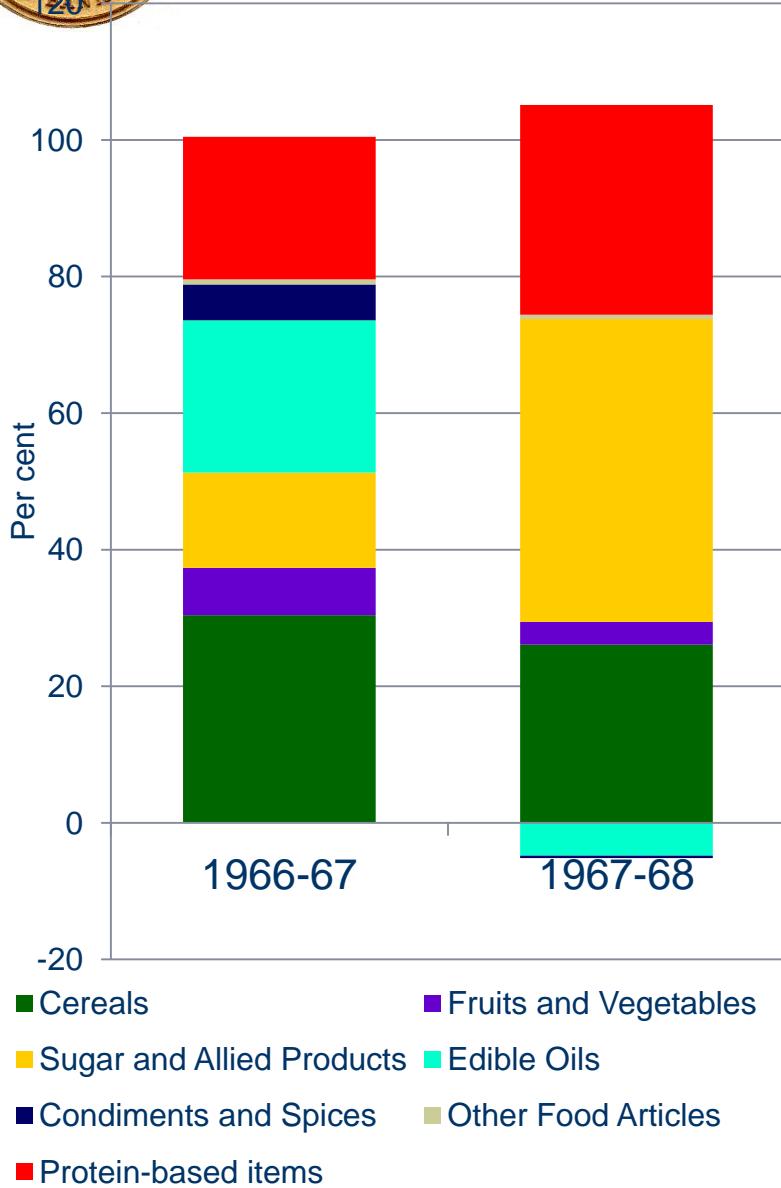


Contribution of Food Inflation



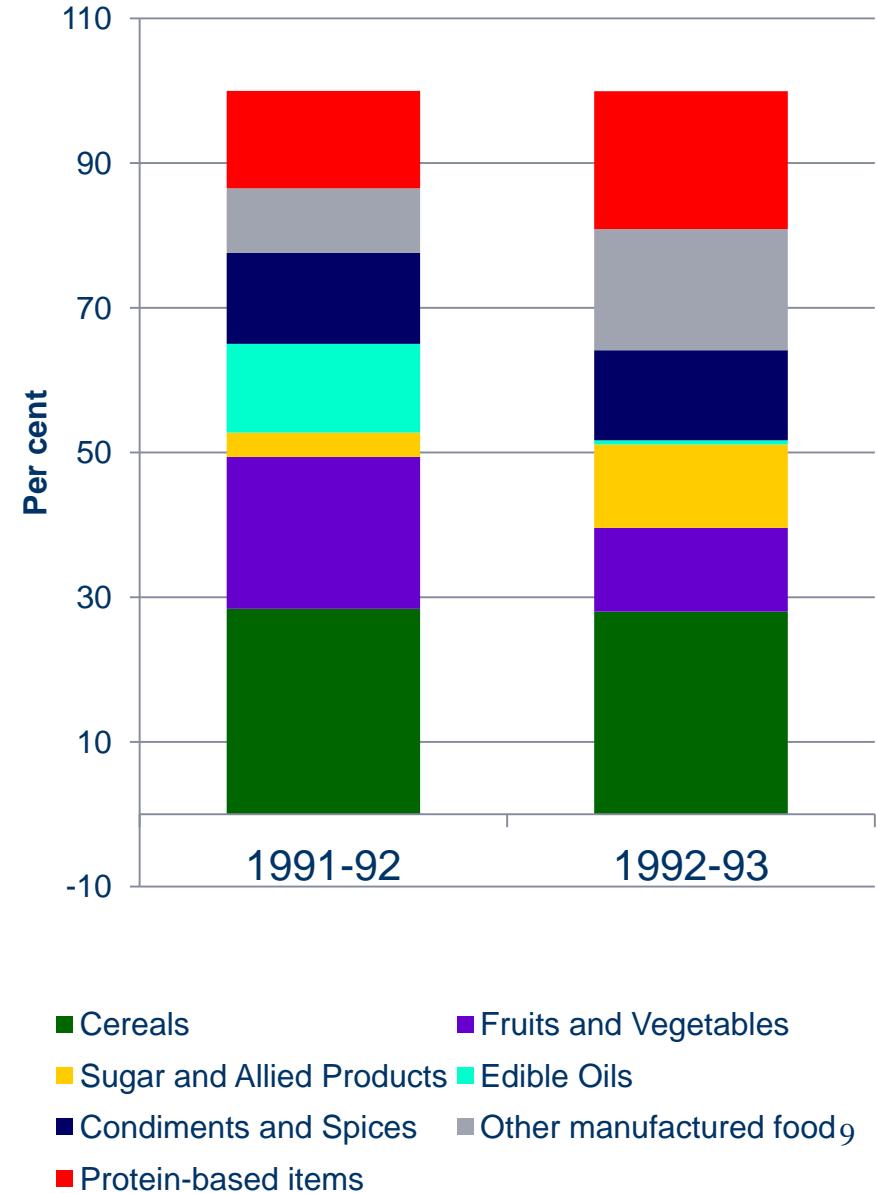
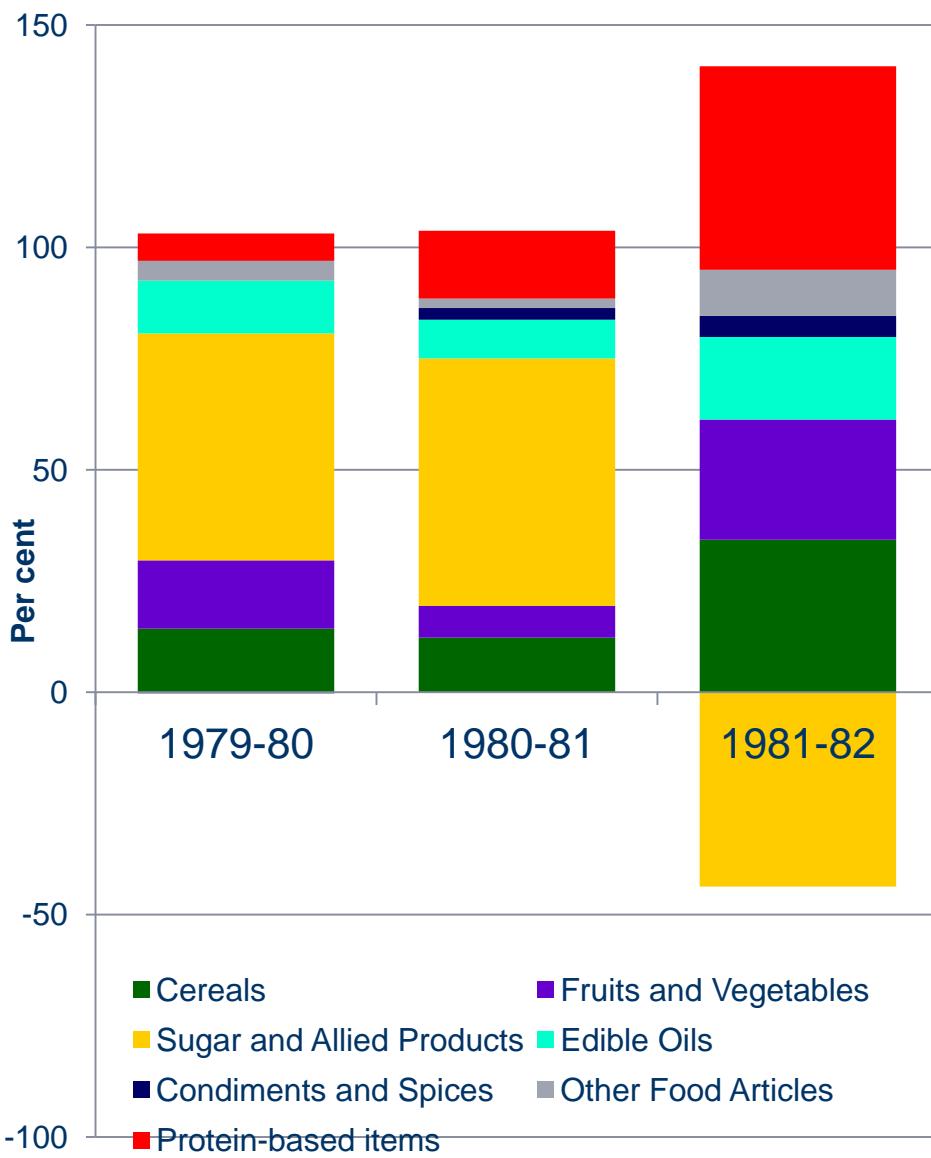


Drivers of Food Inflation 1960s & 1970s



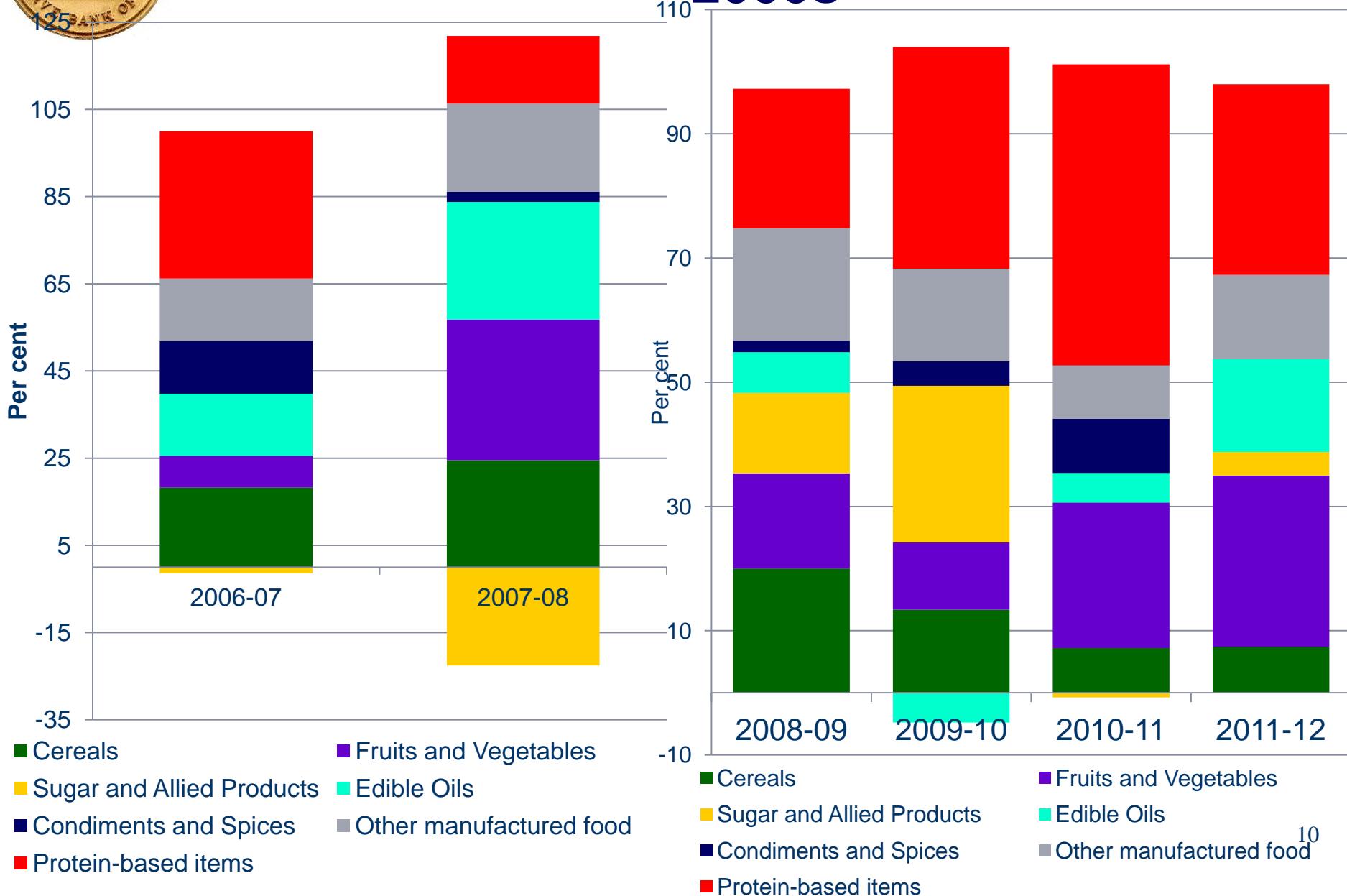


Drivers of Food Inflation 1980s & 1990s



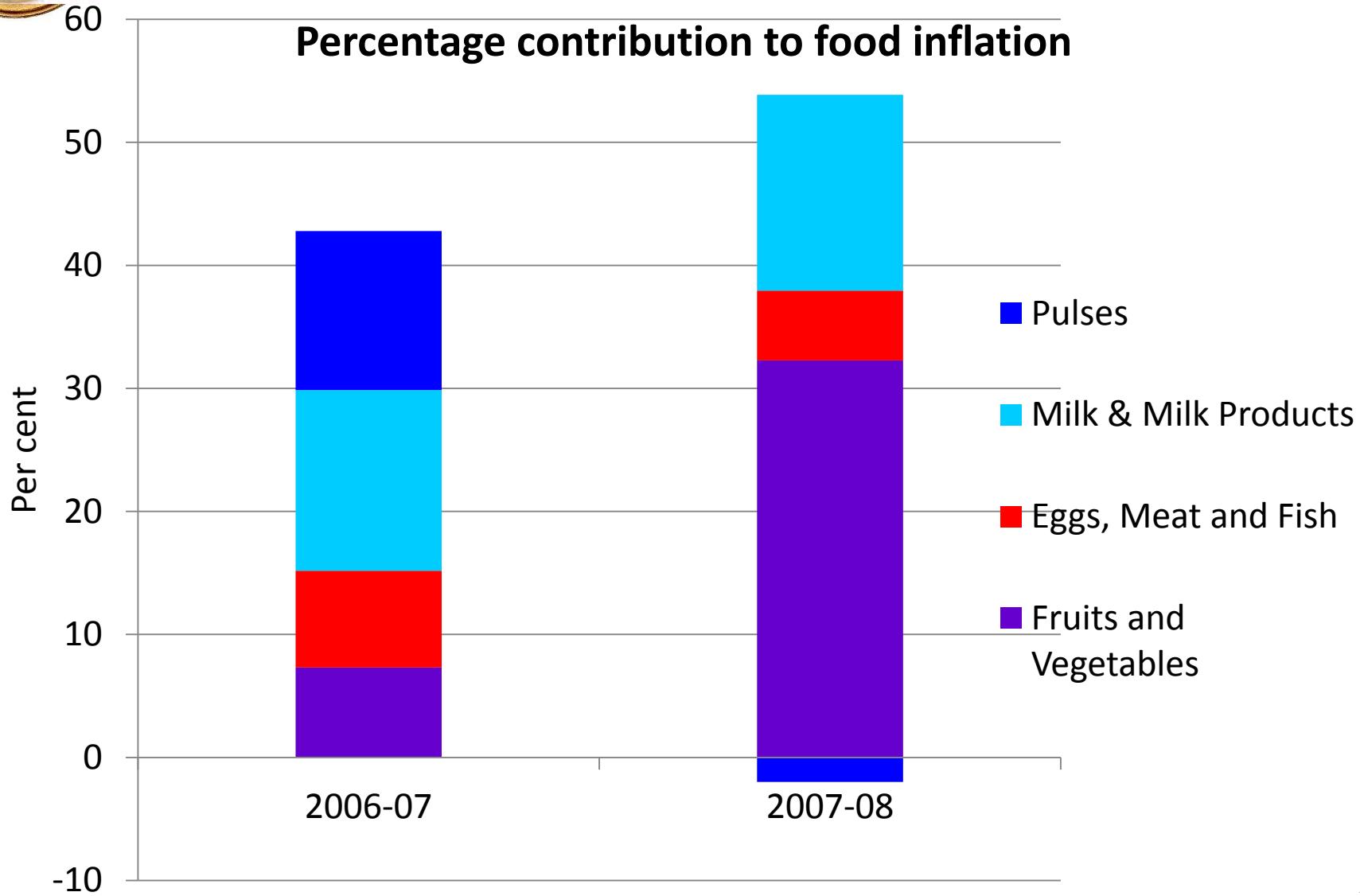


Drivers of Food Inflation 2000s



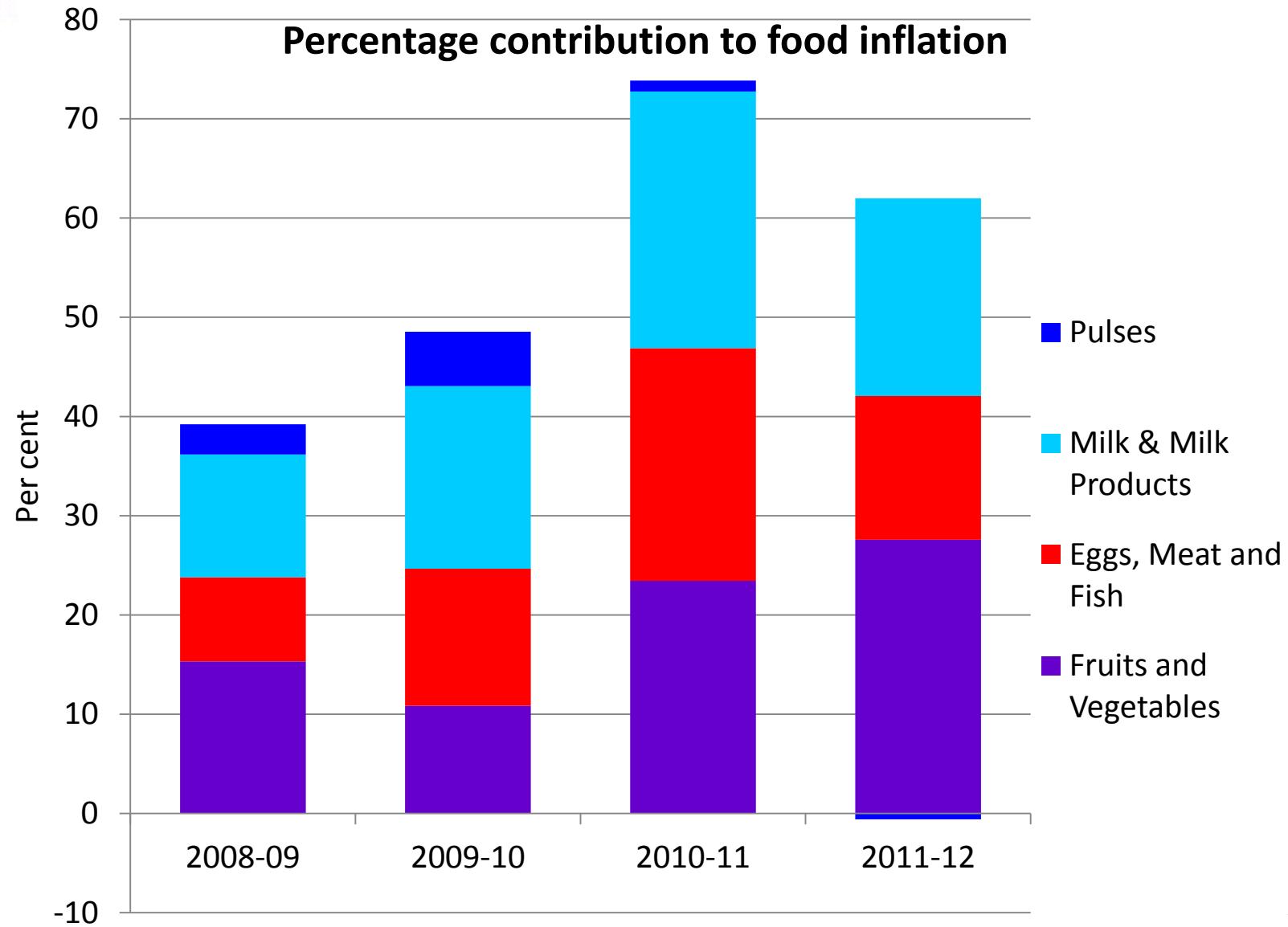


Proteins and Fruits & Veggies





Proteins and Fruits & Veggies...2



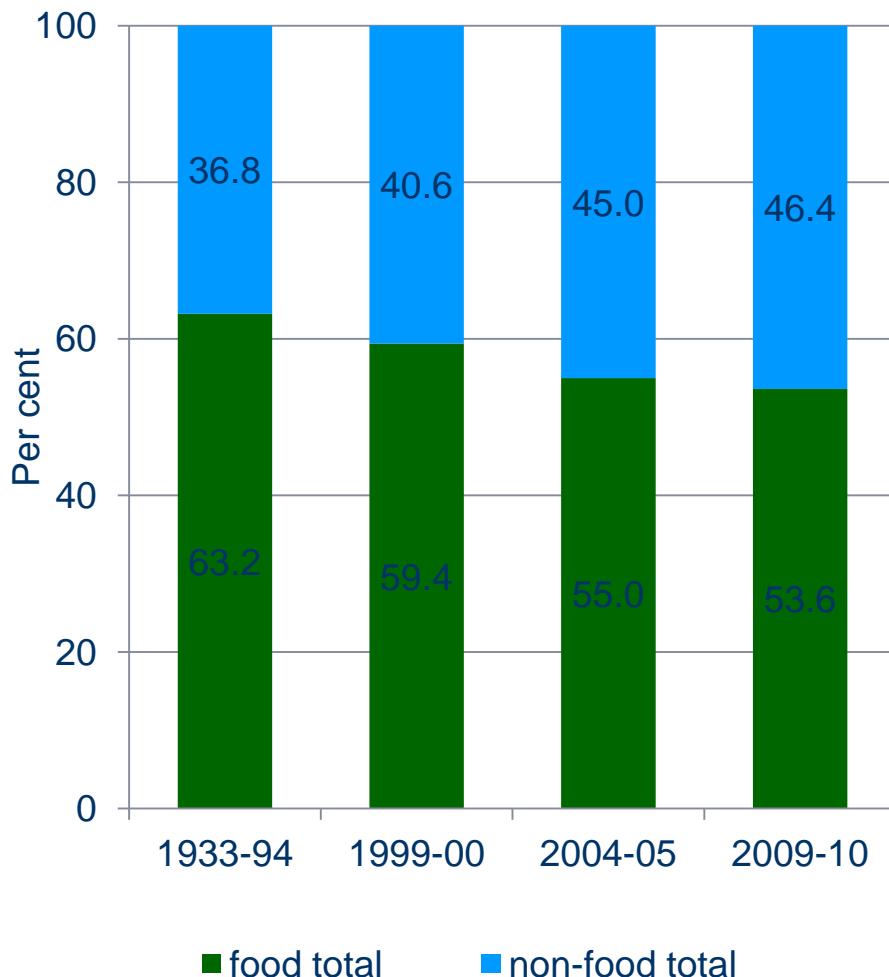


DEMAND FACTORS

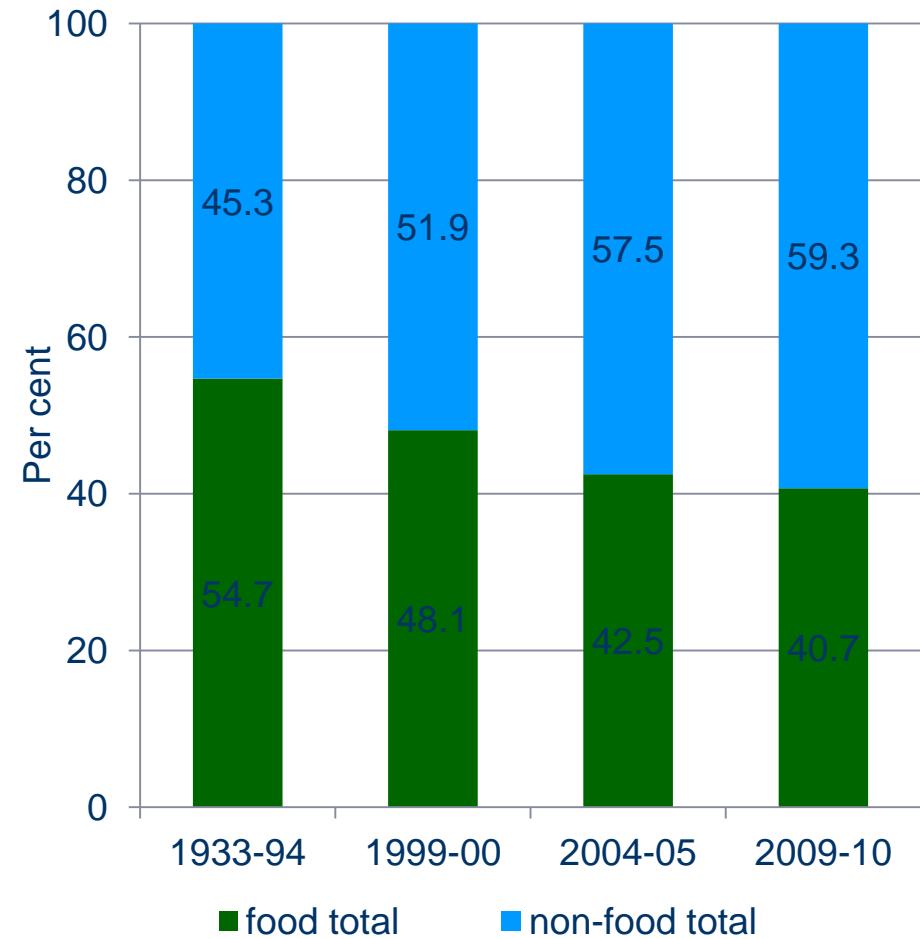


Changing Consumption Patterns

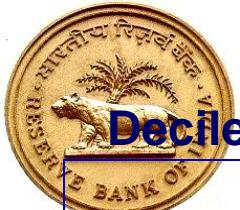
MPCE Rural



MPCE Urban



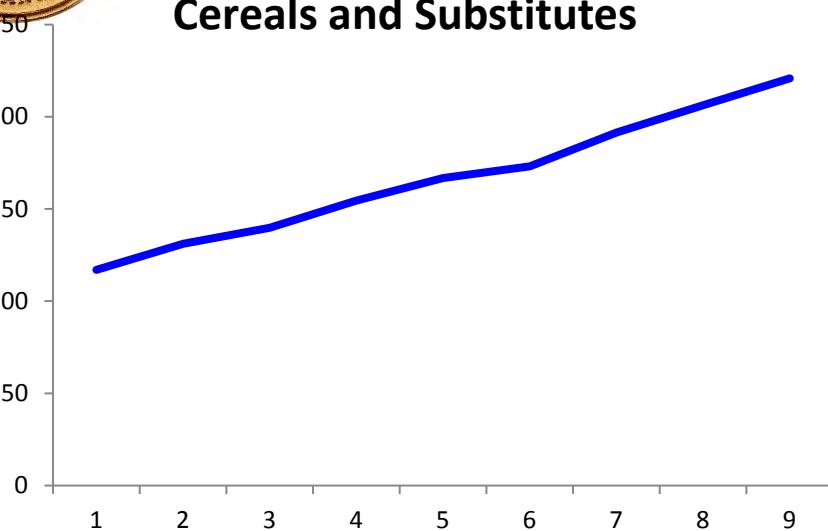
Source: NSSO surveys, Various rounds



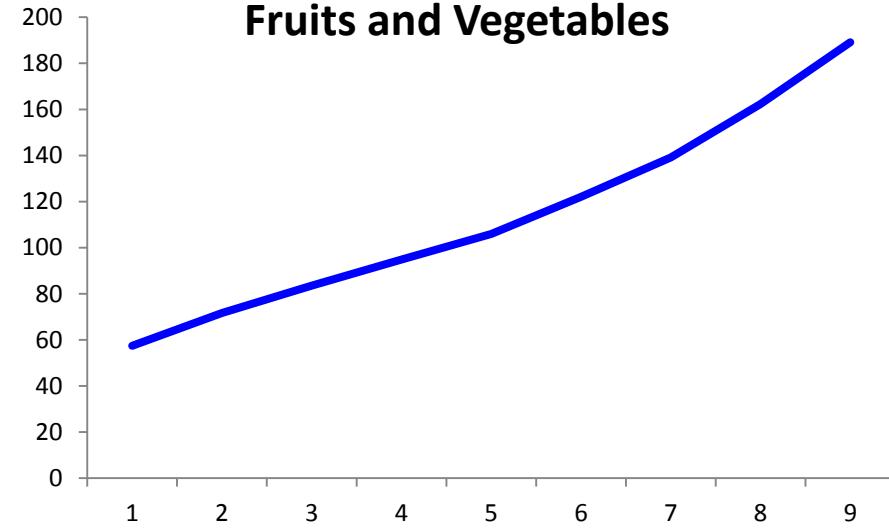
Urban Engel Curves

Decile-wise Monthly PCE on Select Food Items: All India (Urban) (Rupees)

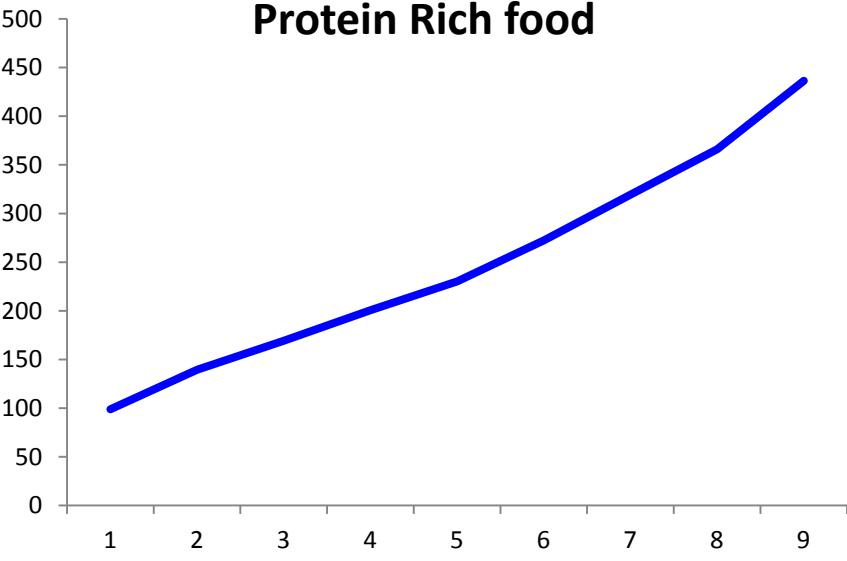
Cereals and Substitutes



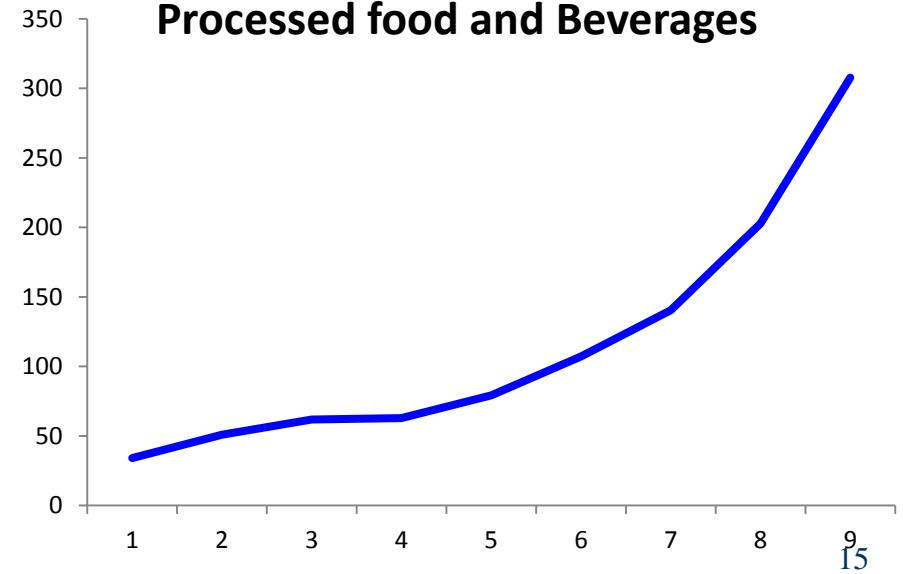
Fruits and Vegetables



Protein Rich food



Processed food and Beverages



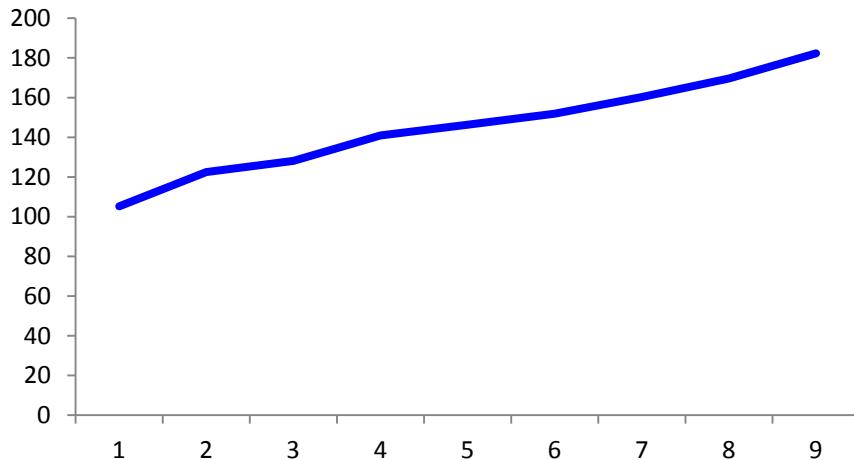
Source: Estimated from NSSO unit level data, 2009-10



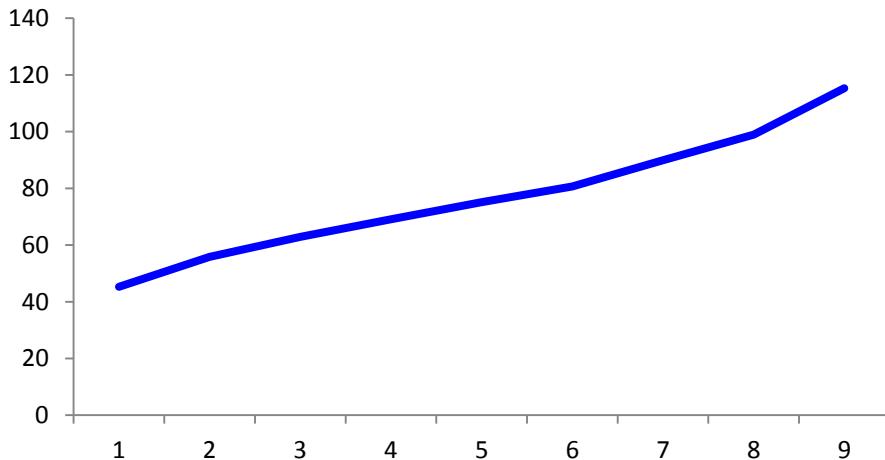
Rural Engel Curves

Decile-wise Monthly PCE on Select Food Items: All India (Rural) (Rupees)

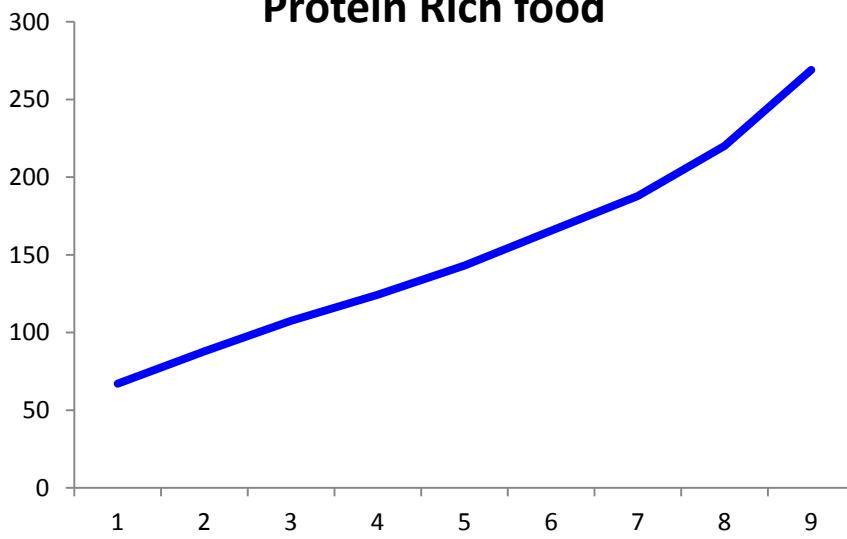
Cereals and Substitutes



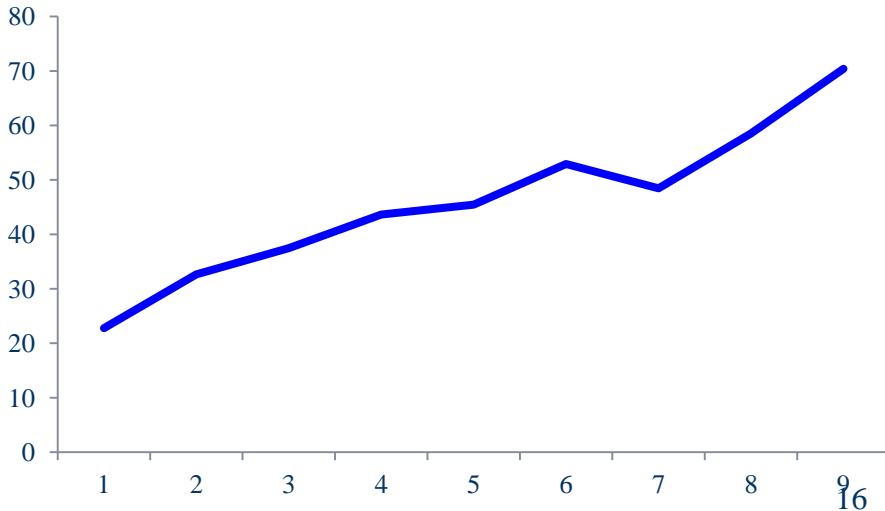
Fruits and Vegetables



Protein Rich food



Processed food and Beverages



Source: Estimated from NSSO unit level data, 2009-10



Income Elasticities

Multiples of MPCE: Top Decile/Bottom Decile

	Rural Areas	Urban Areas
Cereals and Substitutes	1.7	1.9
Fruits and Vegetables	2.5	3.3
Protein Rich food	4.0	4.4
Processed food & Beverages	3.1	9.0

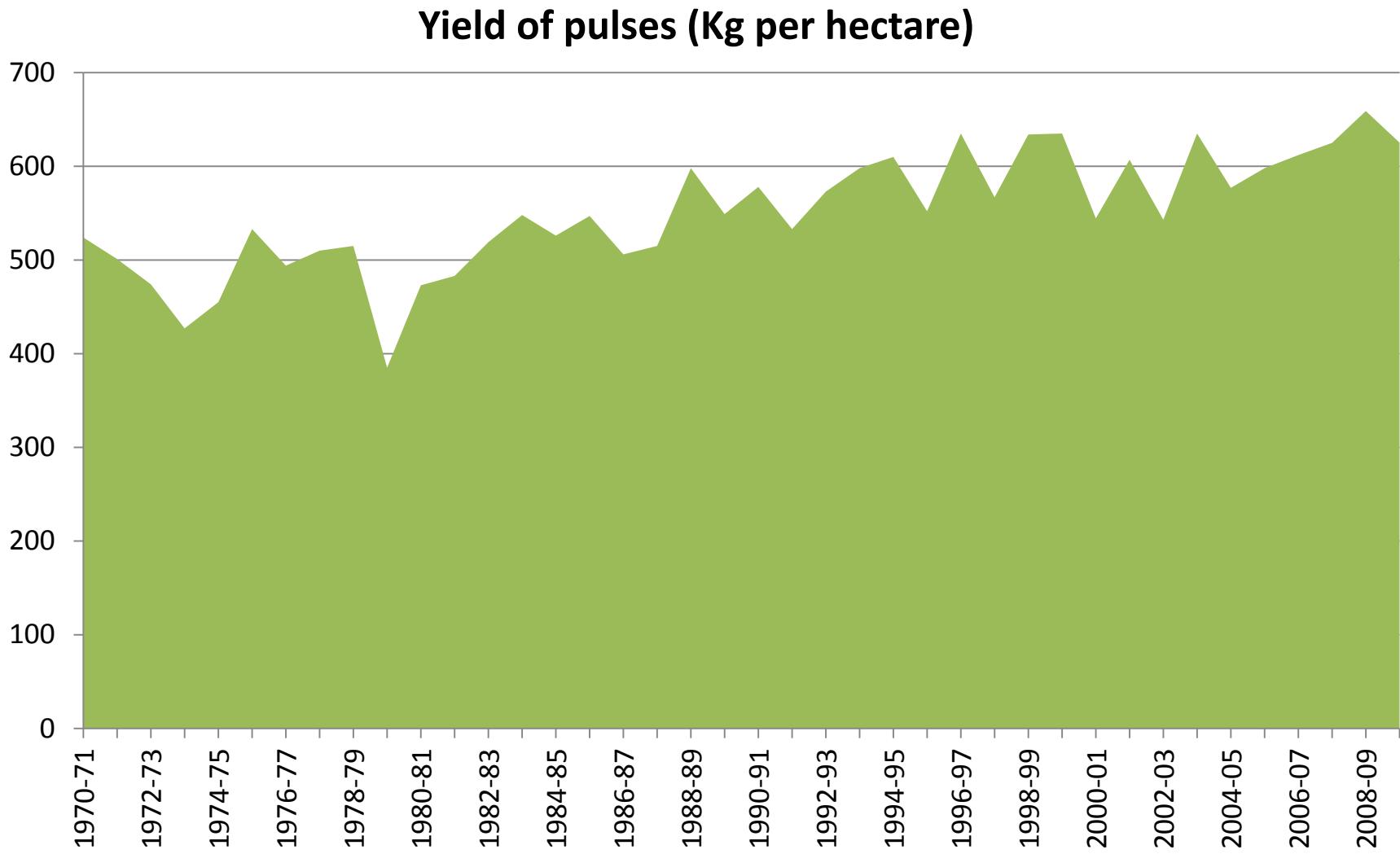
Source: NSSO 2009-10, GOI.



SUPPLY FACTORS



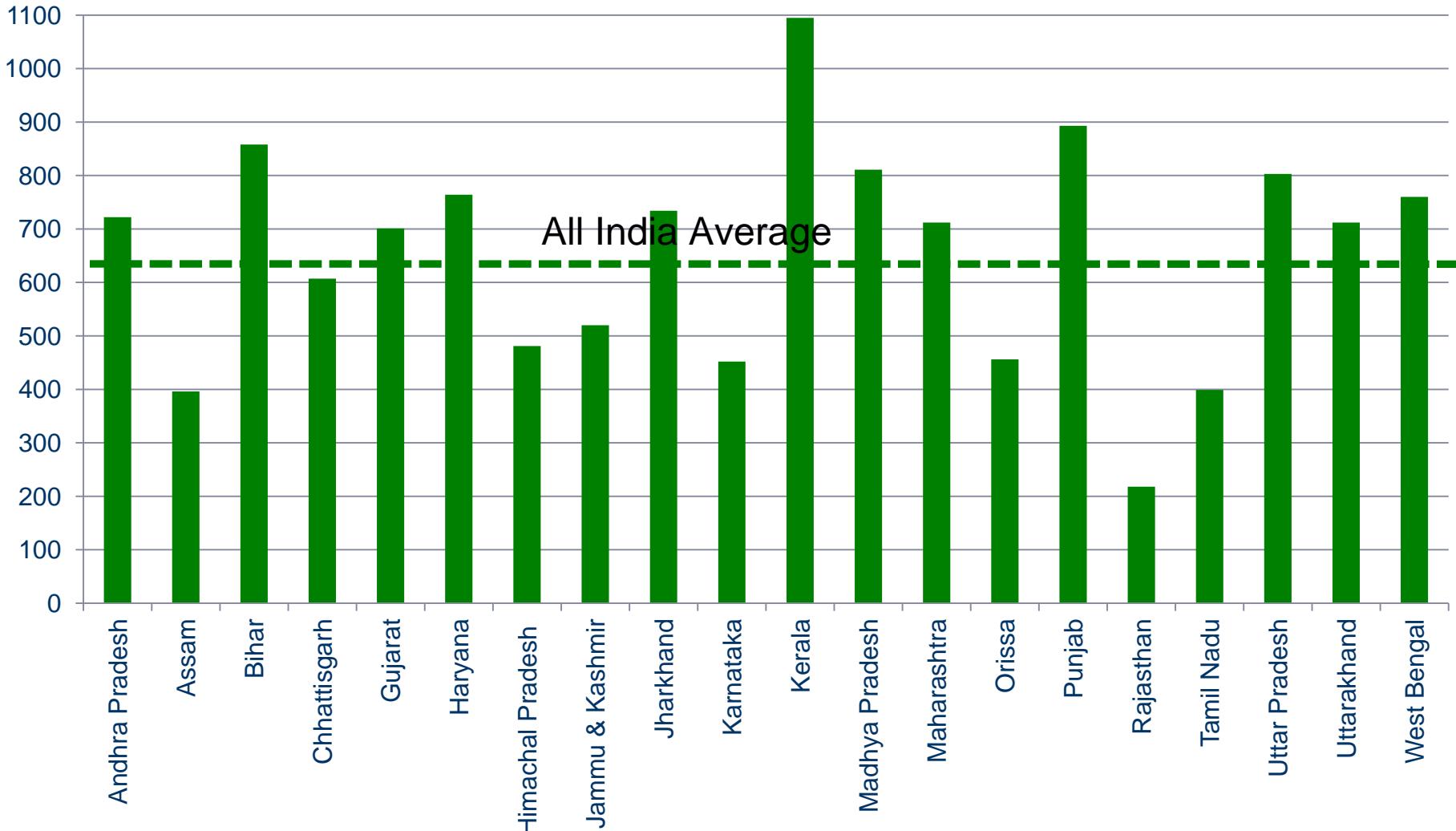
Stagnant Productivity in Pulses





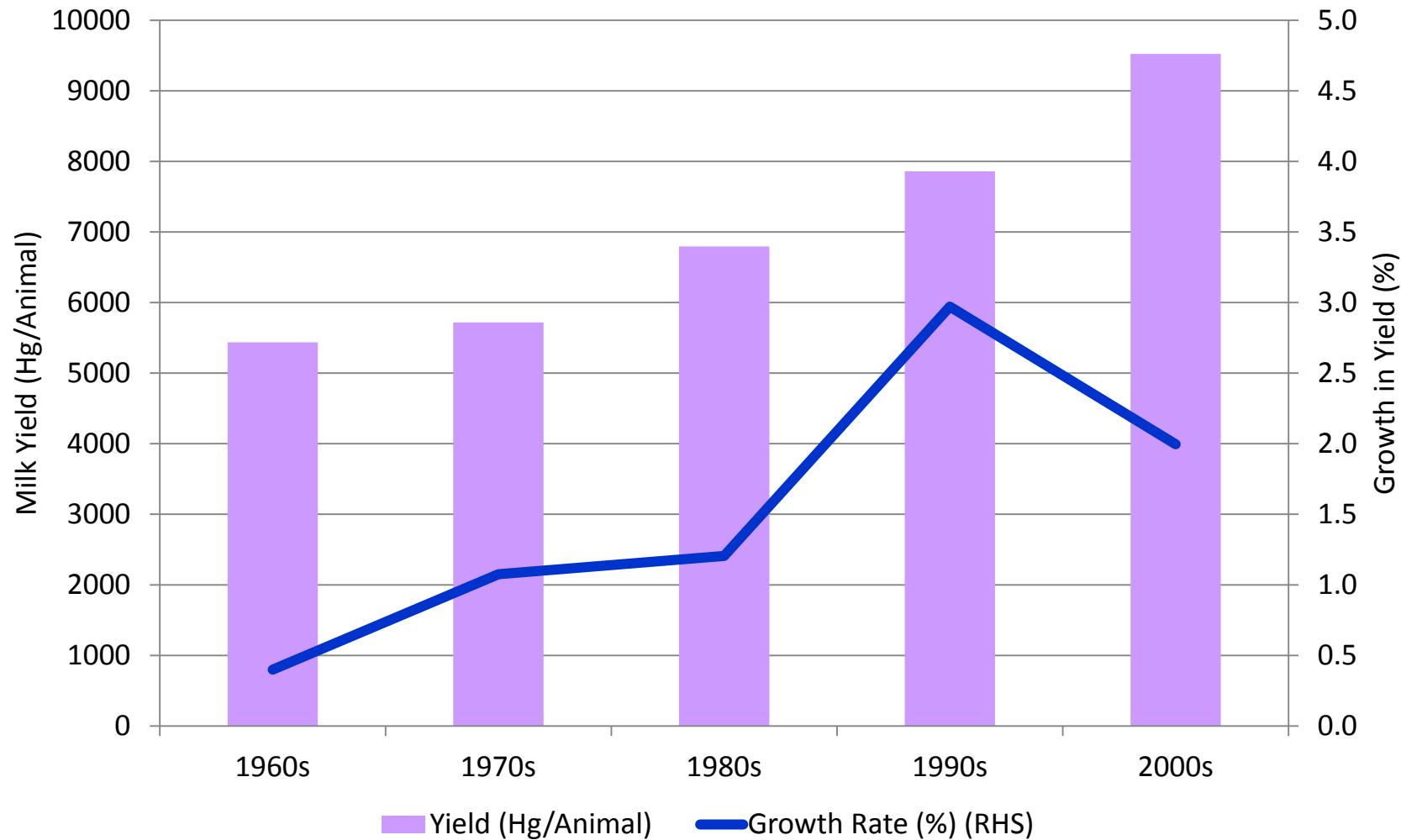
Productivity Differentials

State-wise yield of total pulses in 2009-10 (kg per hectare)





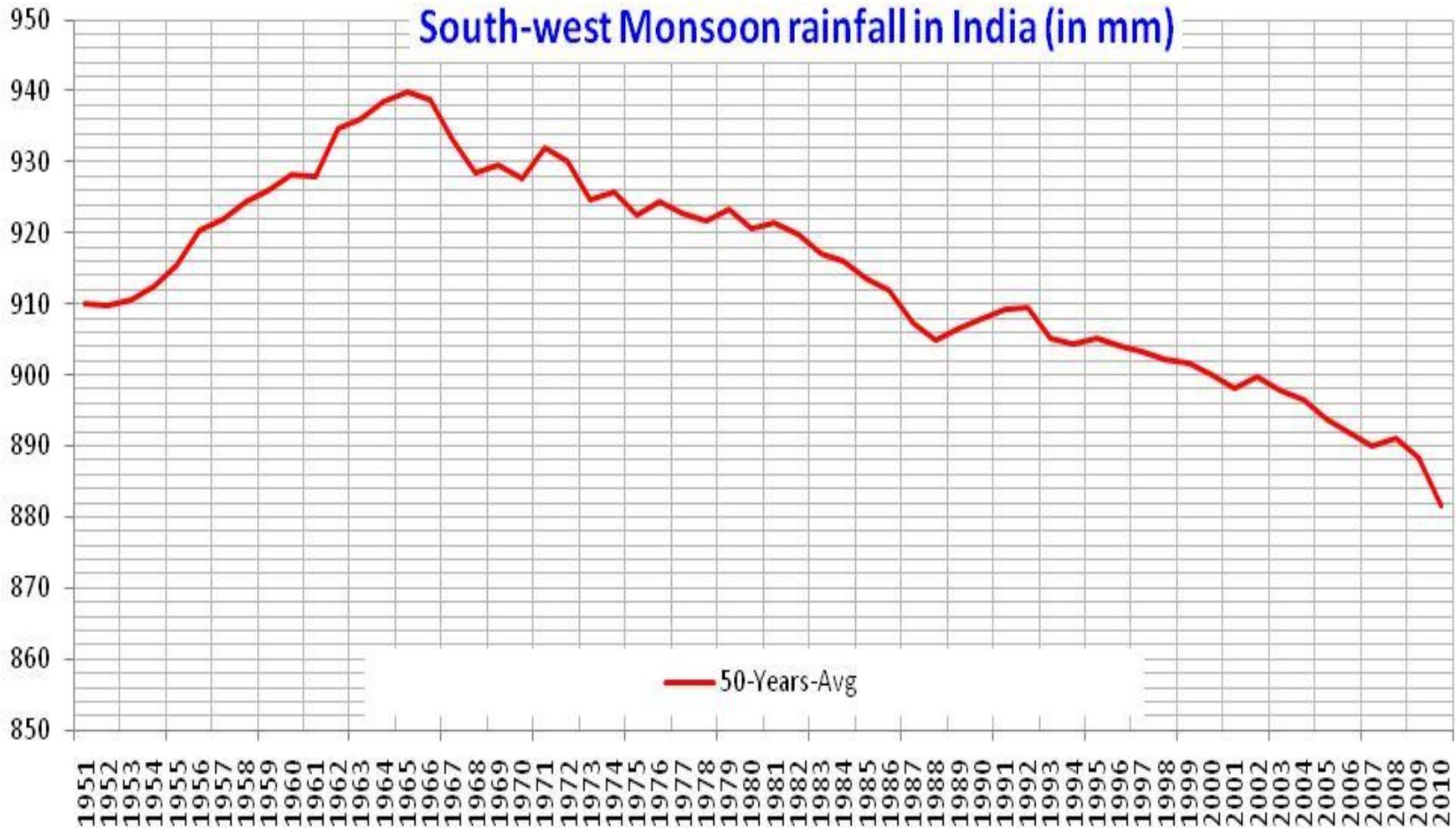
Slowing Growth in Milk Yields





South-west Monsoon Rainfall

50 year moving average



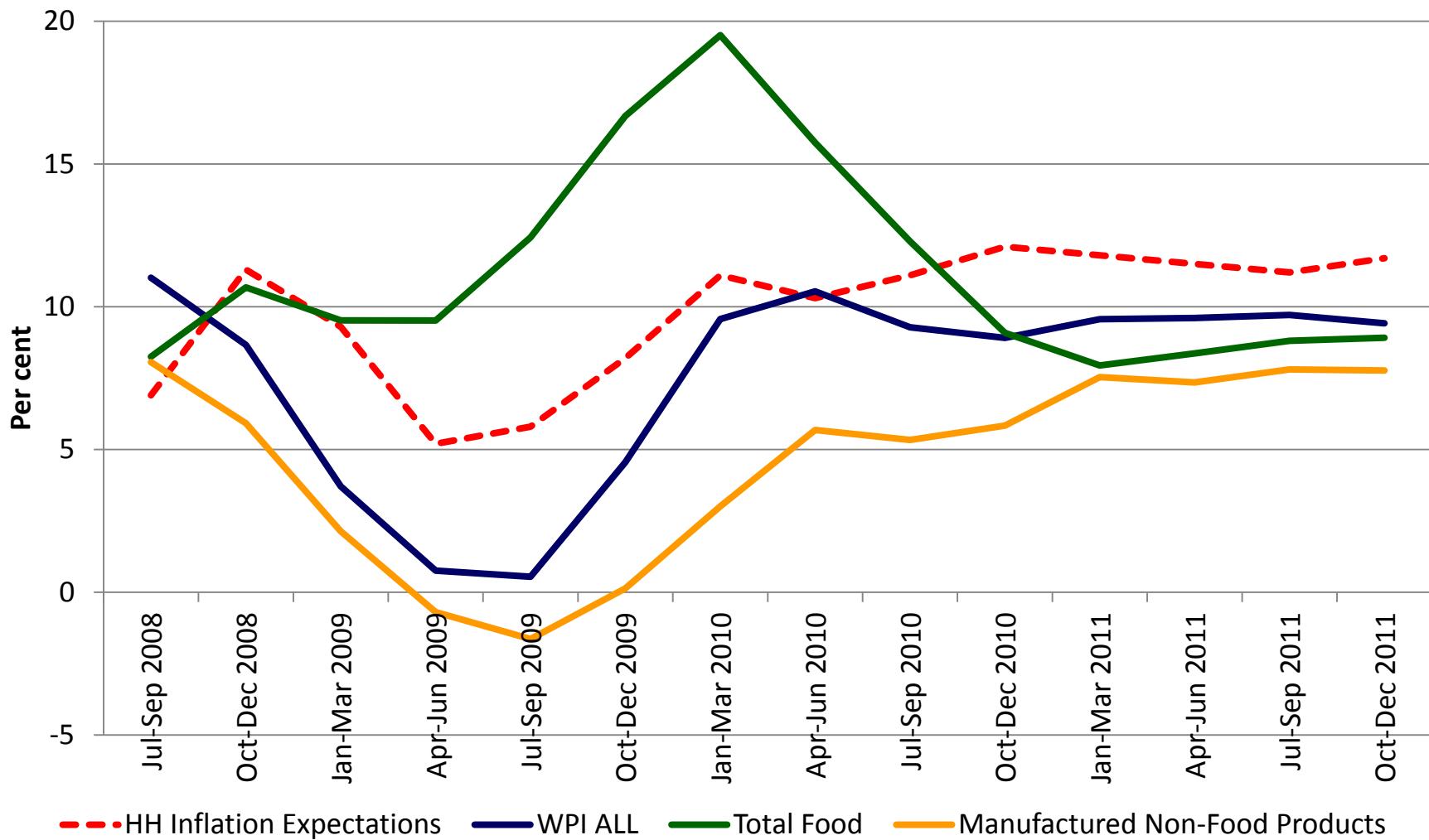
- IMD-LPA is calculated every 10 years as the 50 years average i.e.
- IMD LPA for 2011-2019 is 89 cm and is the average rainfall over the country as a whole for the period 1951-2000.



POLICY IMPLICATIONS



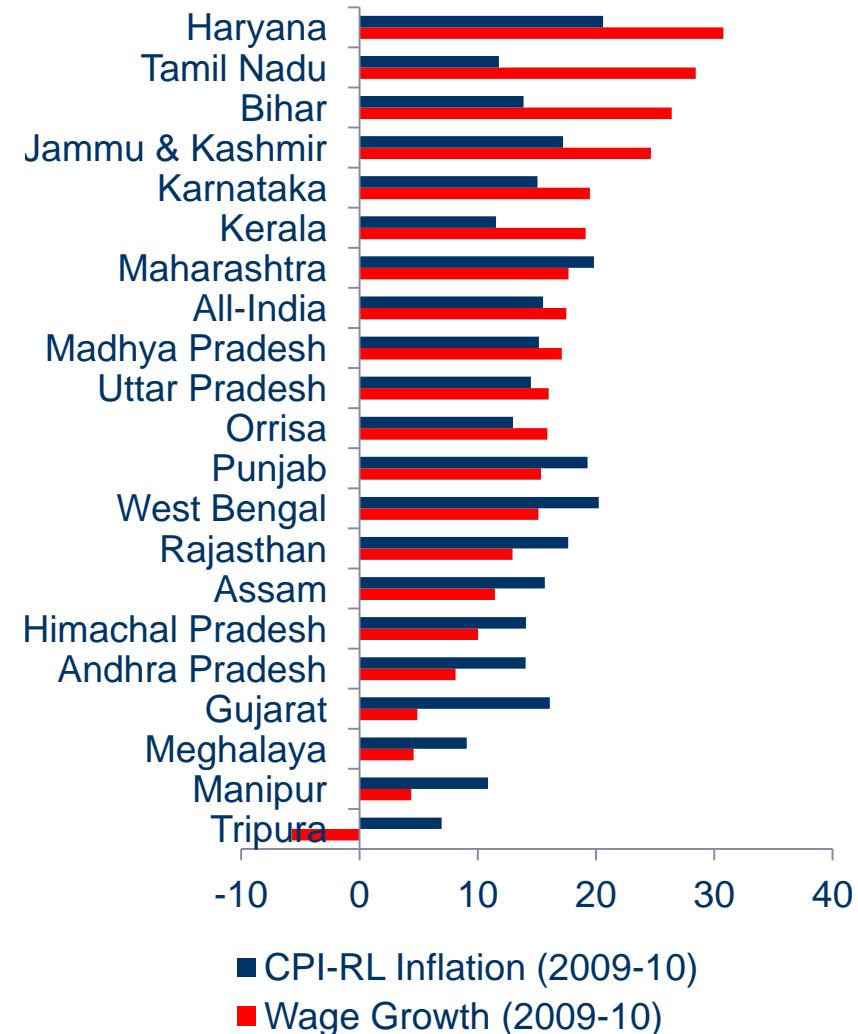
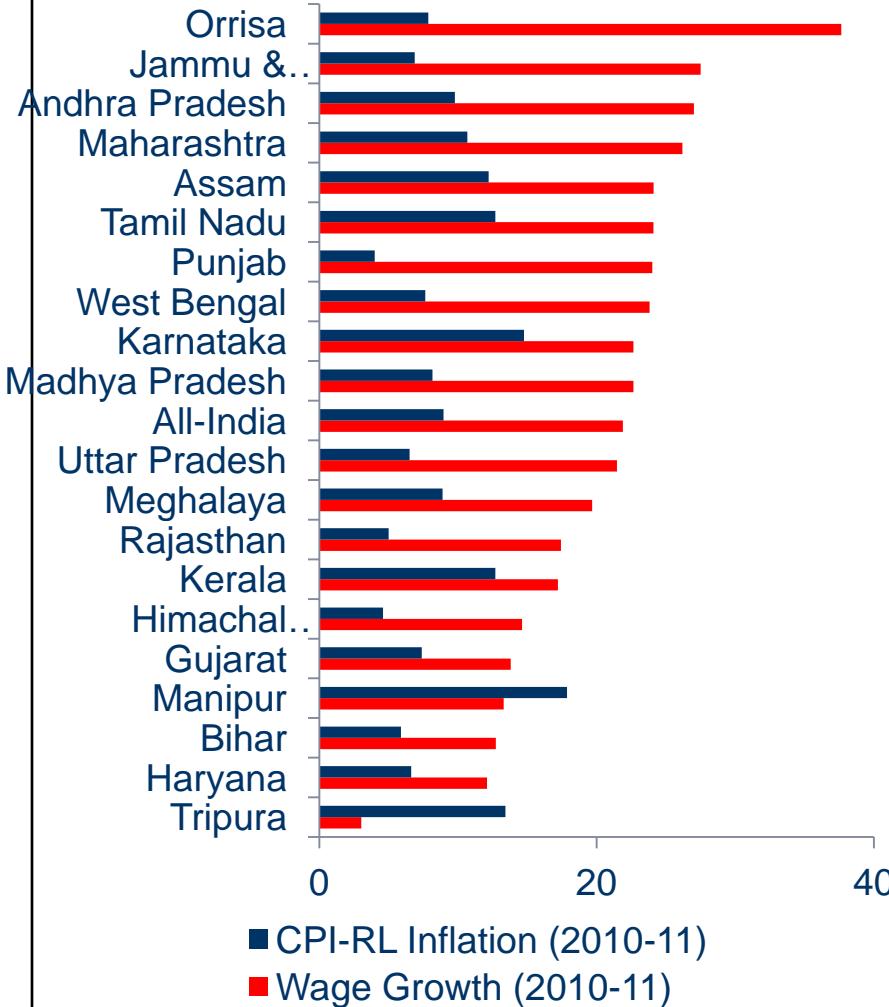
Inflation and Inflation Expectations





Rising Wages

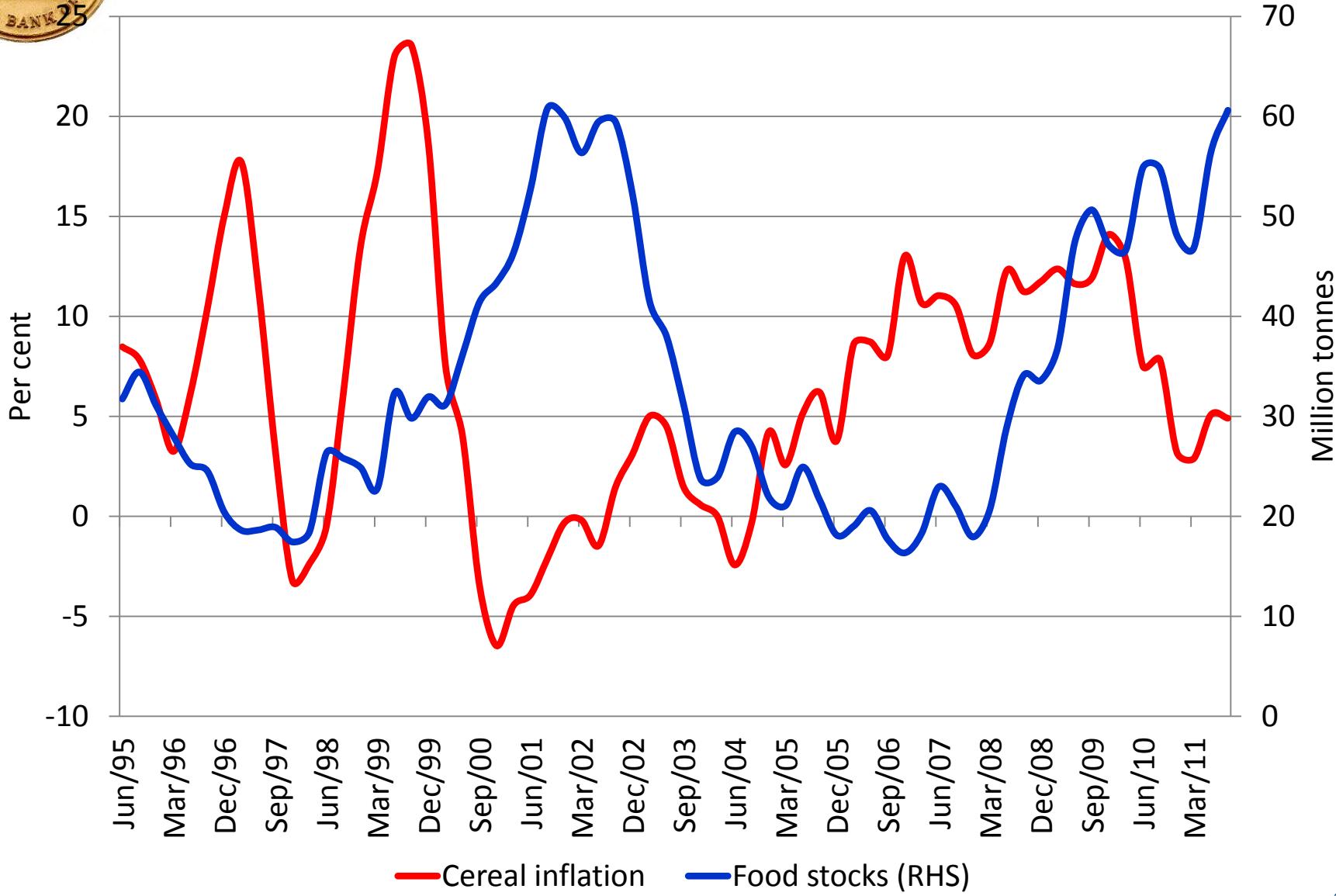
CPI-Rural Labourers Inflation and Wage Growth*



* Y-o-Y Growth in March; Rural Unskilled Labourer (Male) Wage. Source: Indian Labour Journal: Labour Bureau, Ministry of Labour.



Cereal Stocks and Prices





Policy Implications

- ◆ **Persistence and Expectations**
 - Food inflation part of core inflation
 - Wage-price feedback
 - Persistent supply shock implies slower growth for any given rate of inflation

- ◆ **Supply Responses**
 - Opportunities for productivity increases
 - Product and region-specific constraints
 - Threats from water scarcity
 - Role of stocks