



Australian Government  
Department of Agriculture  
and Water Resources  
ABARES



# National and international issues affecting Queensland

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Australian Bureau of Agricultural  
and Resource Economics and Sciences

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# Australian Bureau of Agricultural & Resource Economics and Sciences (ABARES)



## Statistics



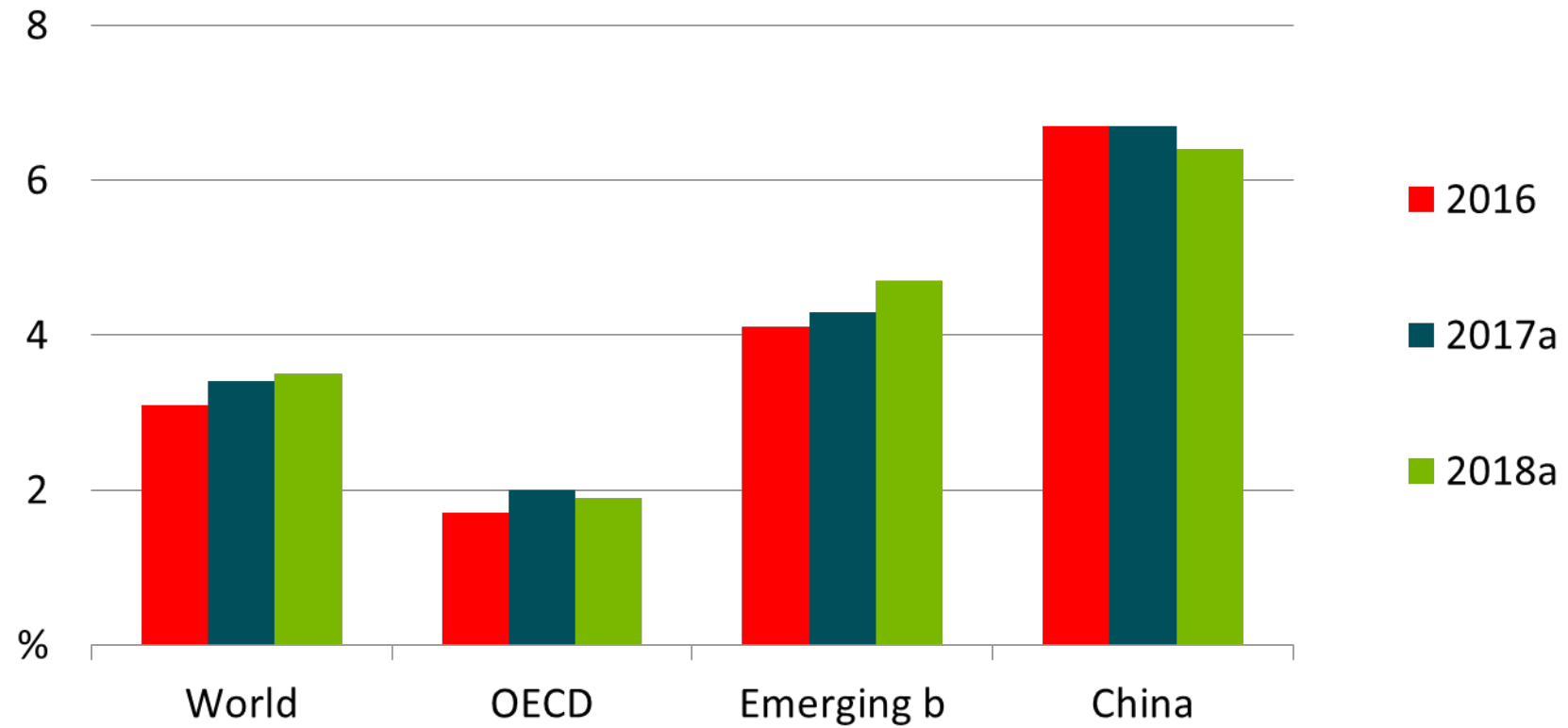
## Forecasting



## Analysis

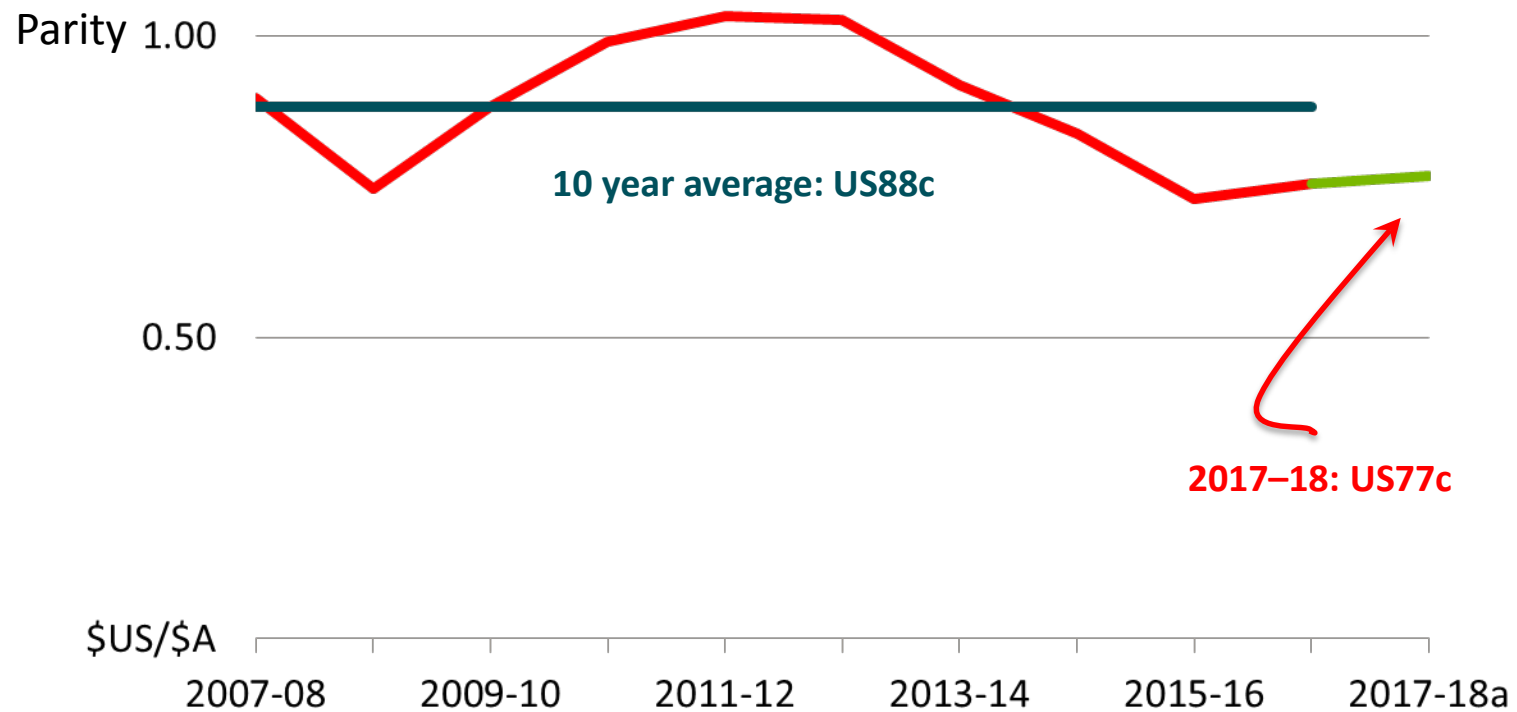


## World economic growth



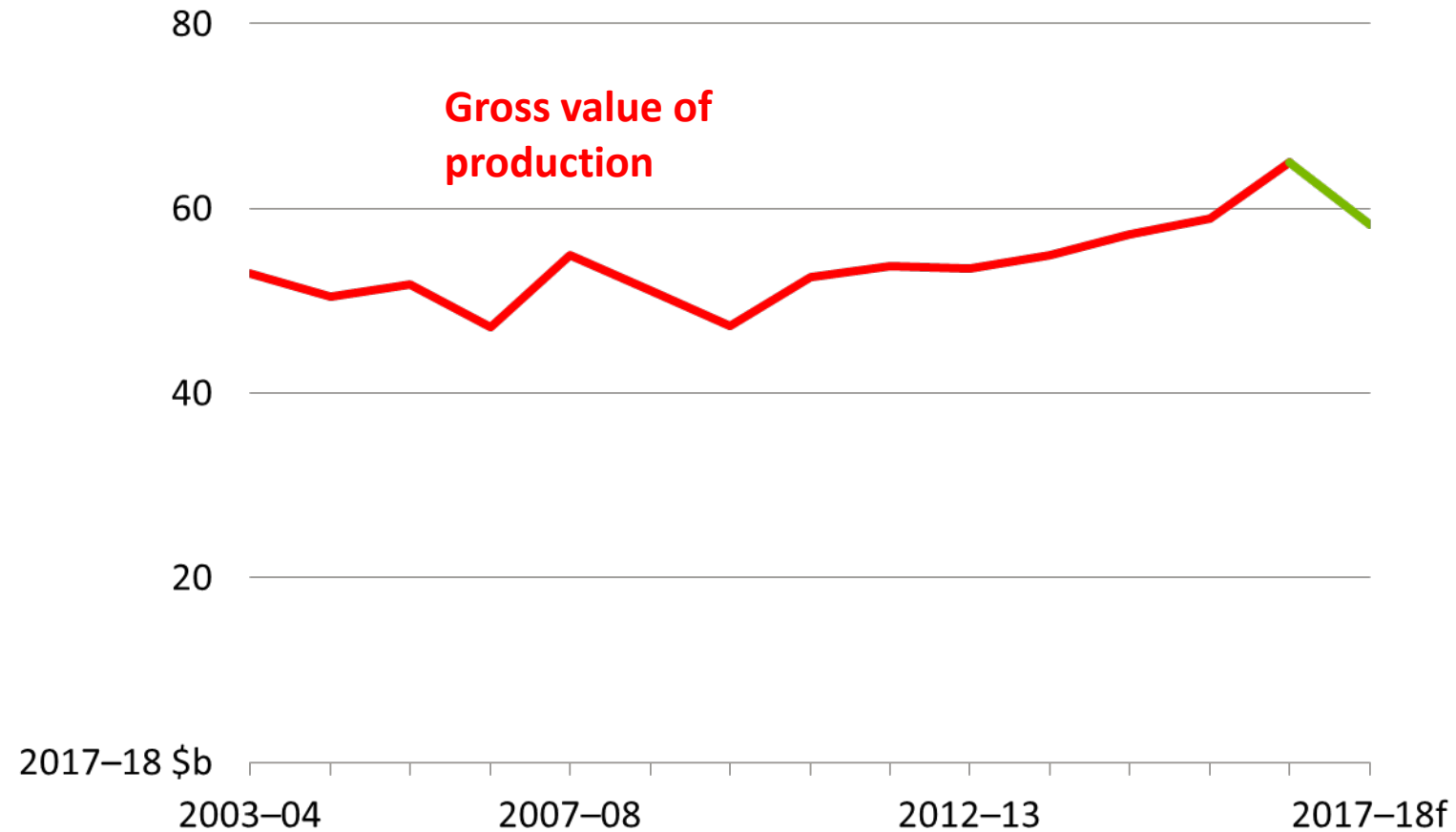
**a** ABARES assumption. **b** includes China.

## Australian dollar has fallen and is assumed to stay relatively low



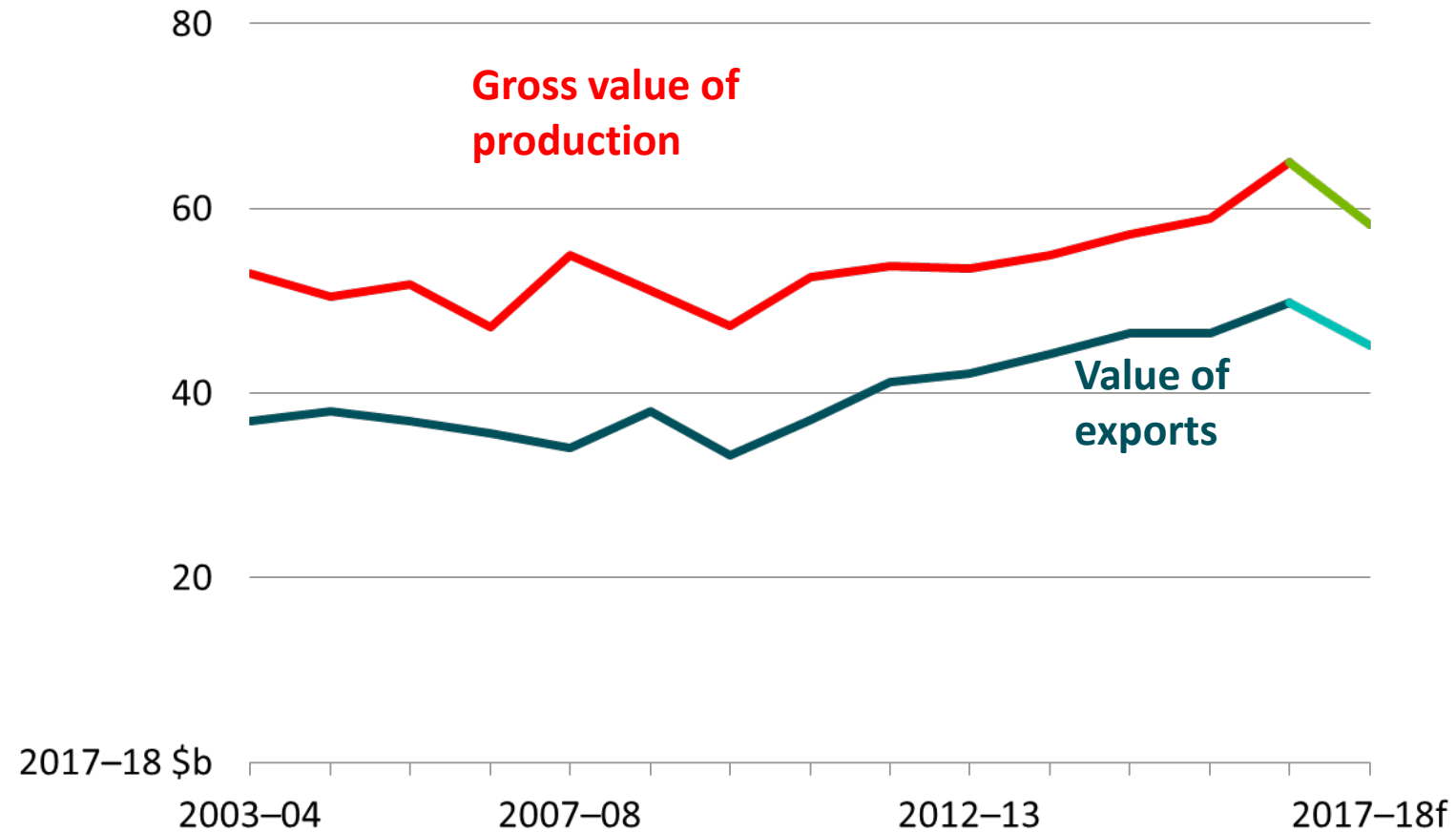
a ABARES assumption.

## Value of agricultural production and exports



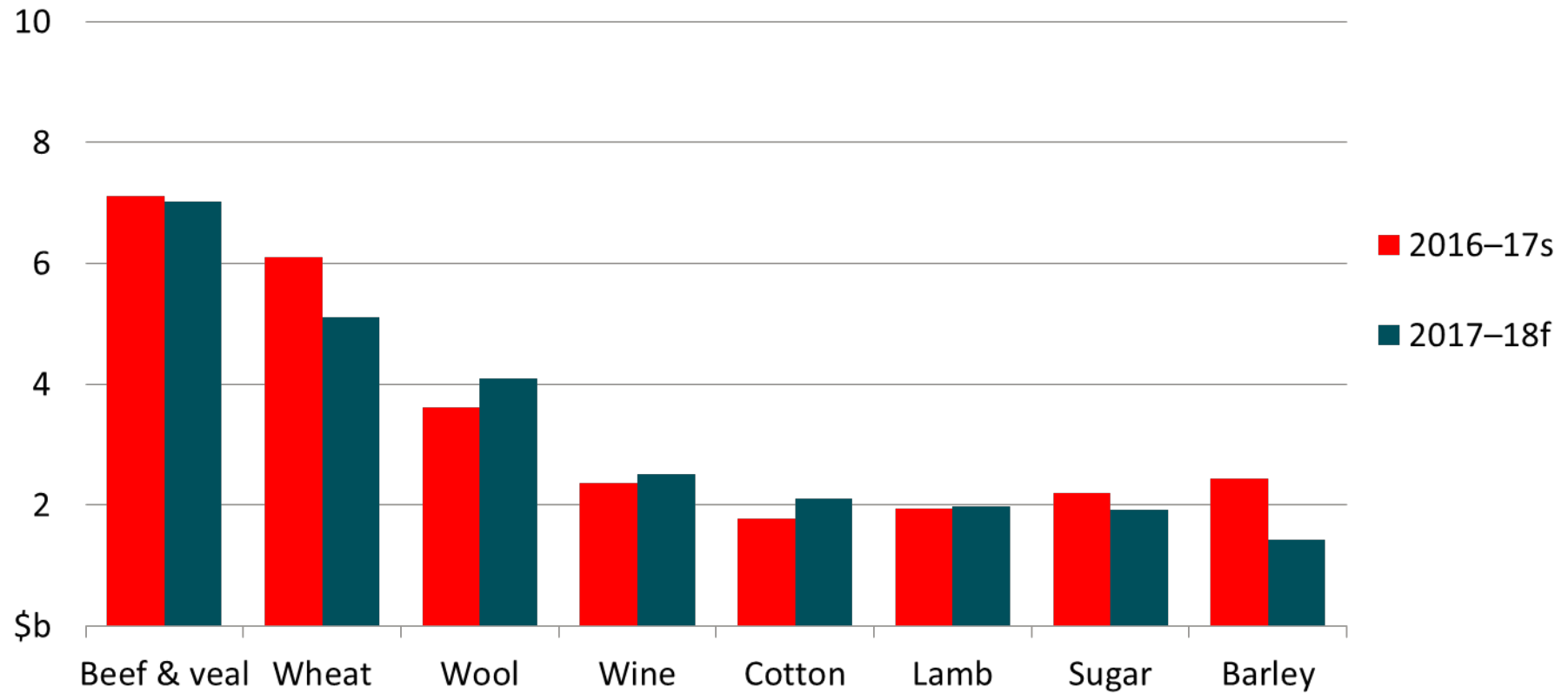
f ABARES forecast.

## Value of agricultural production and exports



f ABARES forecast.

## Major Australian agricultural exports



s ABARES estimate  
f ABARES forecast.

## Long term trends shaping Australian agriculture



- Markets for farm inputs and outputs
- Technology development and uptake
- Structural change
- Society's expectations of farmers
- Climate change

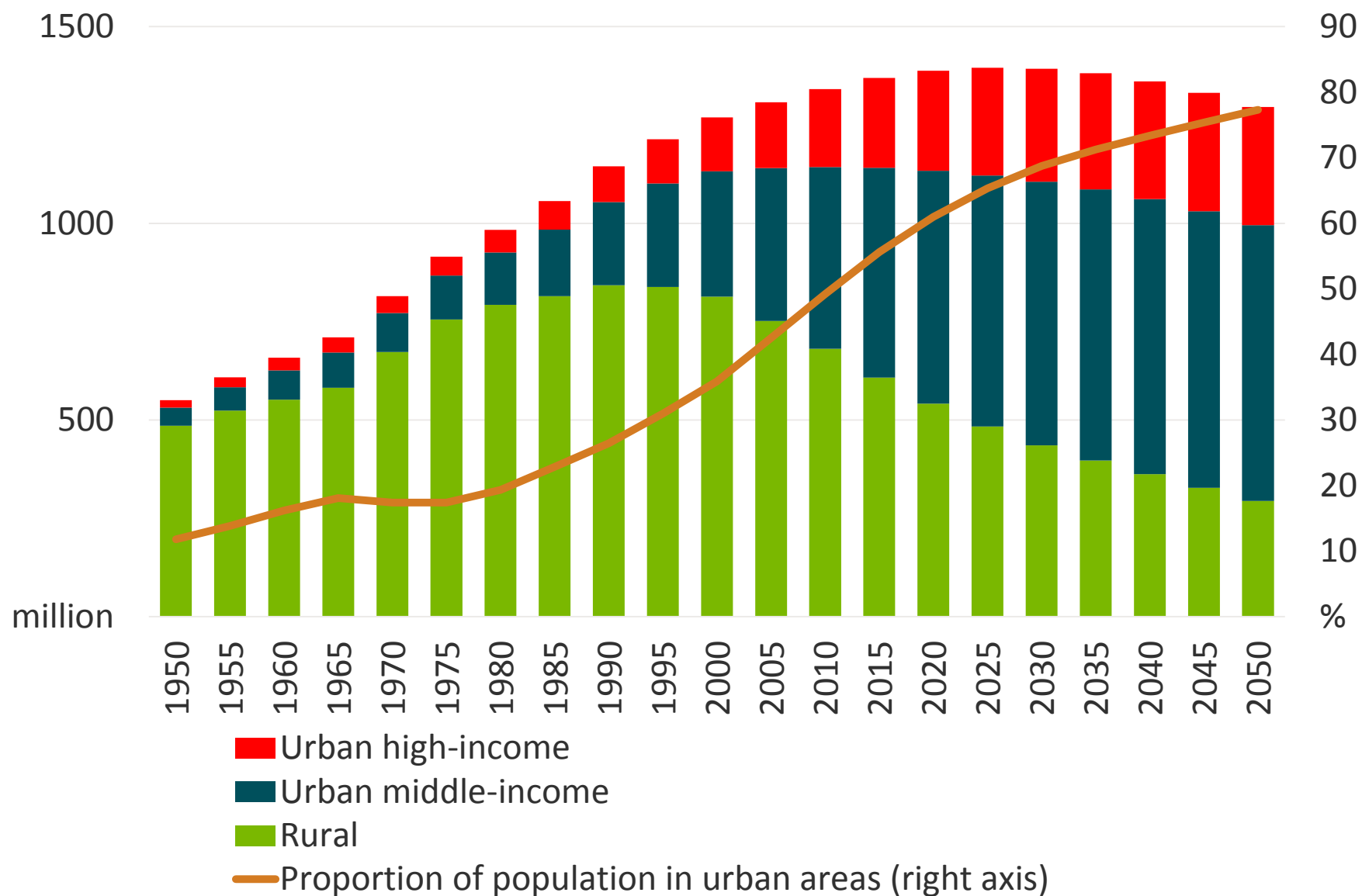
## Maintaining competitiveness is key



Total factor productivity and farmer terms of trade 1977 to 2014



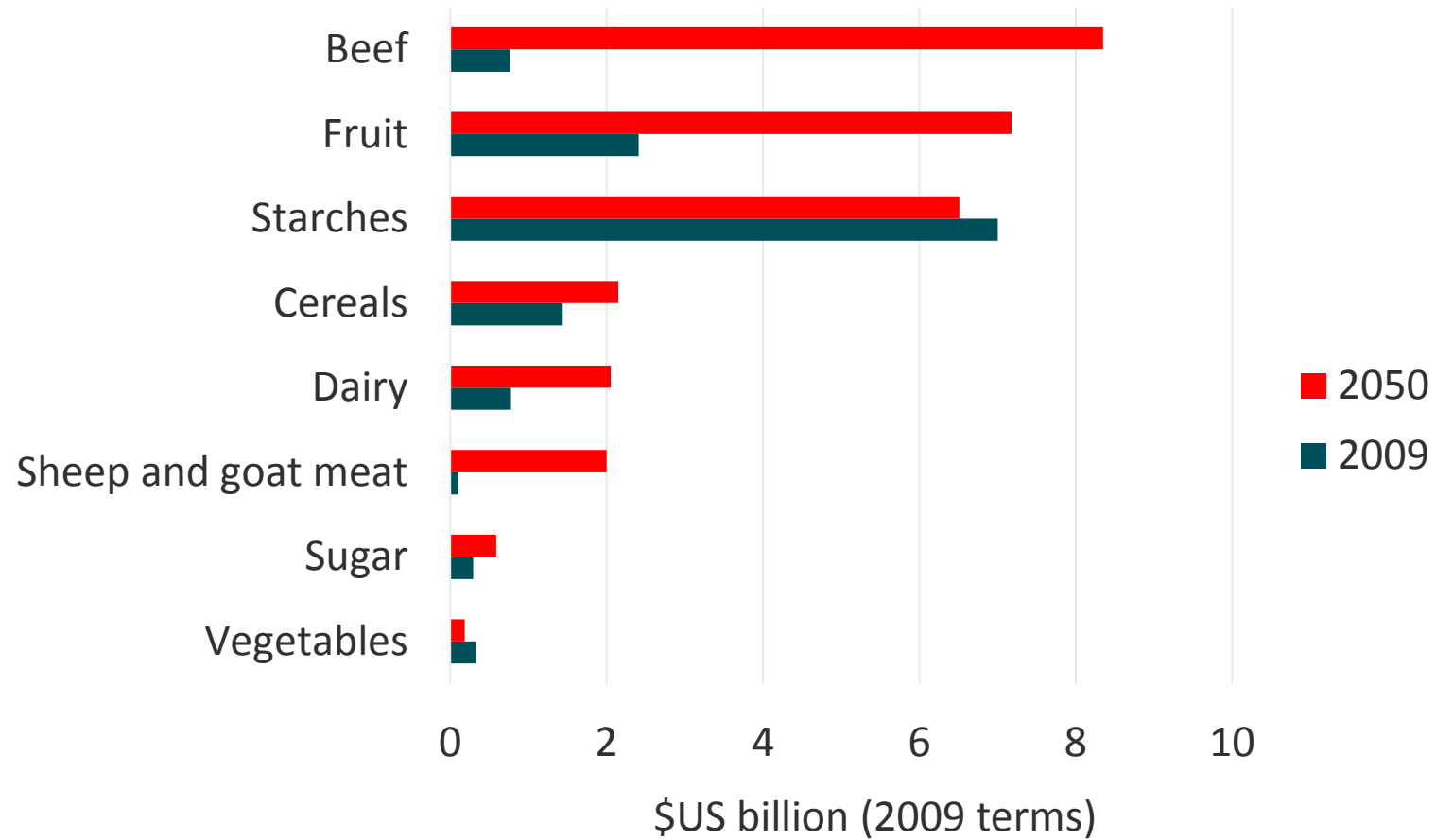
# Urban population in China



## Markets for farm inputs and outputs

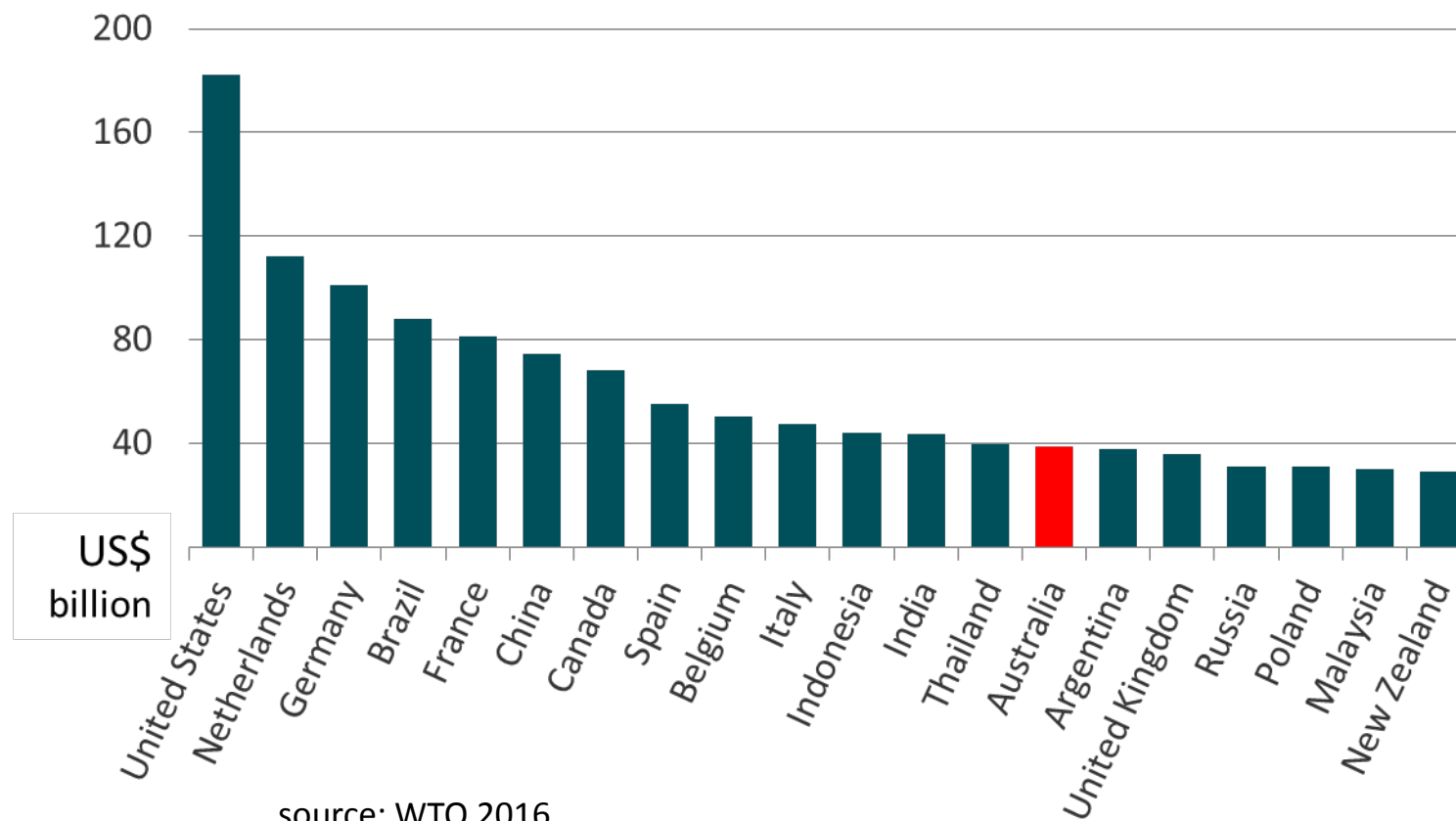


China food imports – 2009 and 2050



## Markets for farm inputs and outputs

Value of agricultural exports, 2014

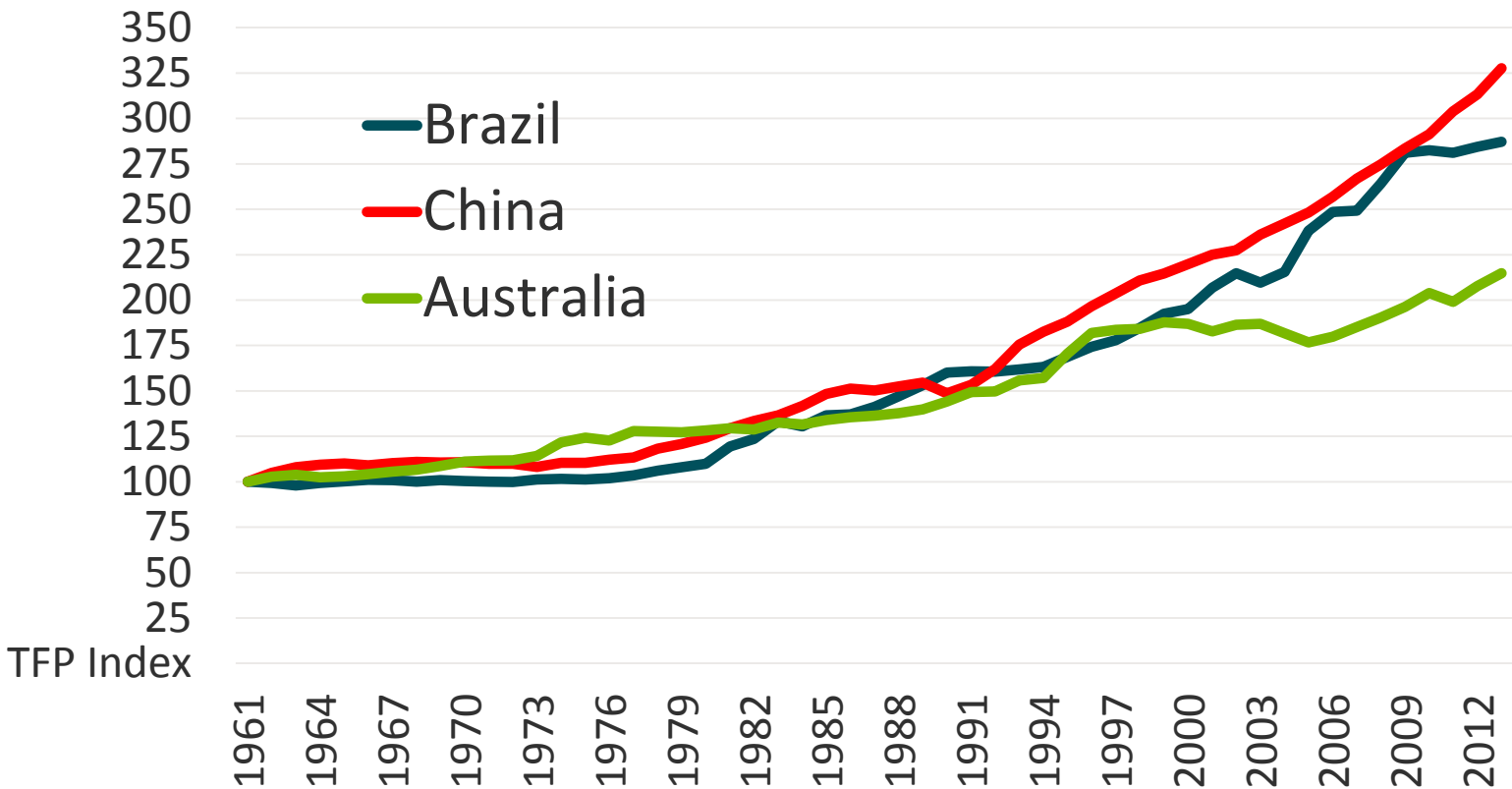


source: WTO 2016

# Technology development and uptake

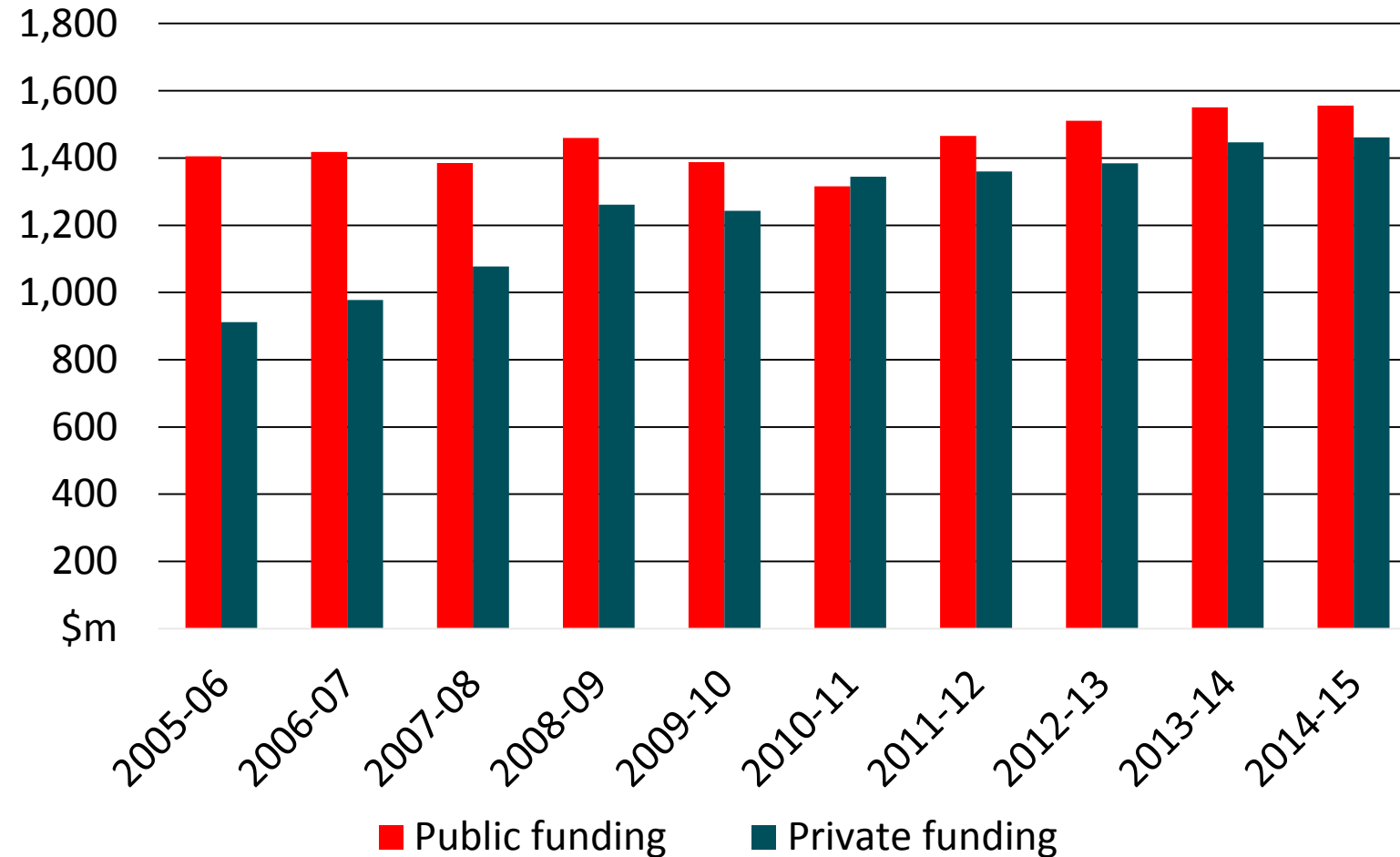


Agricultural productivity index comparison



## Technology development and uptake

Value of Australian rural R&D funding

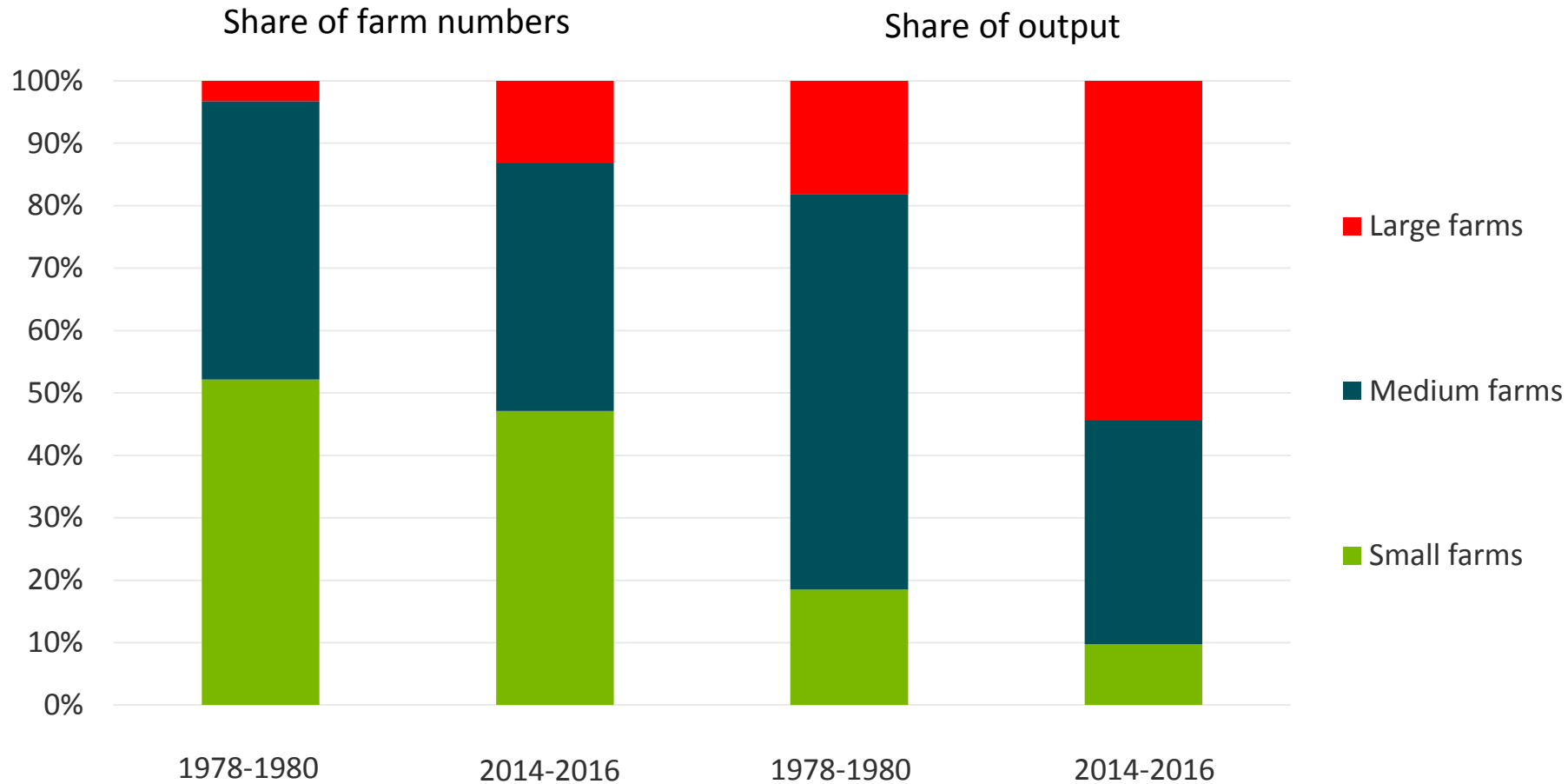


Includes agriculture, forestry and fisheries, related inputs and downstream processing

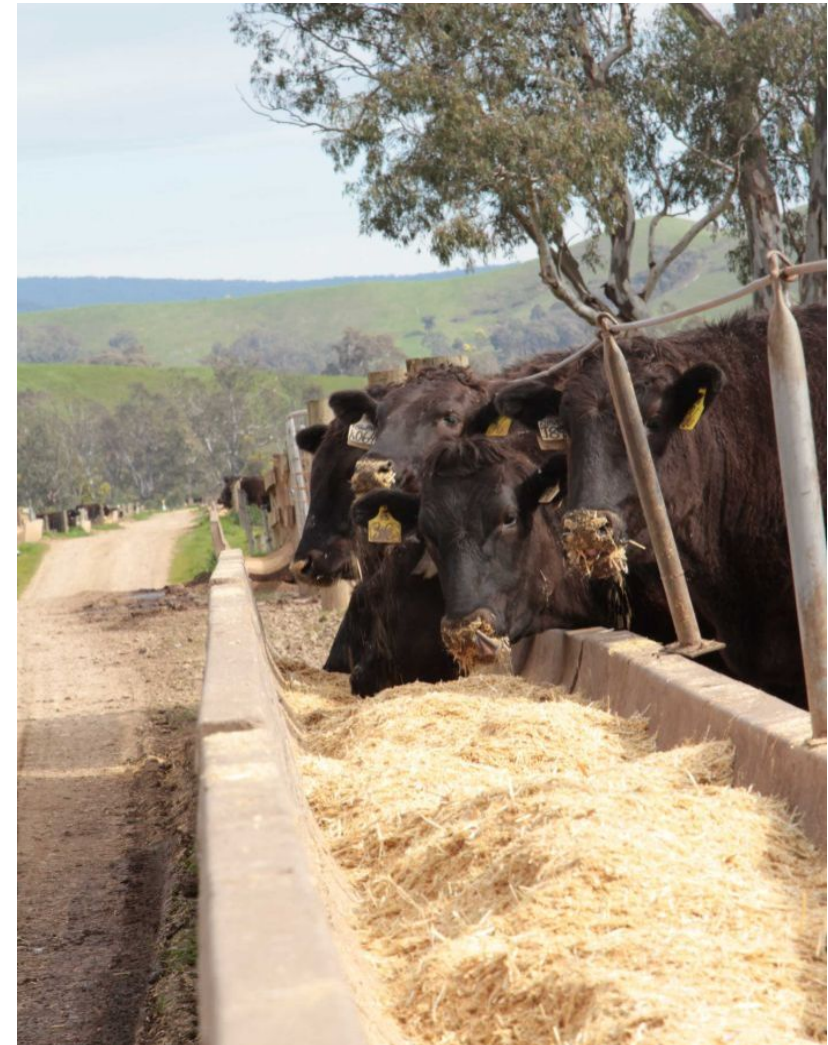
## Structural change



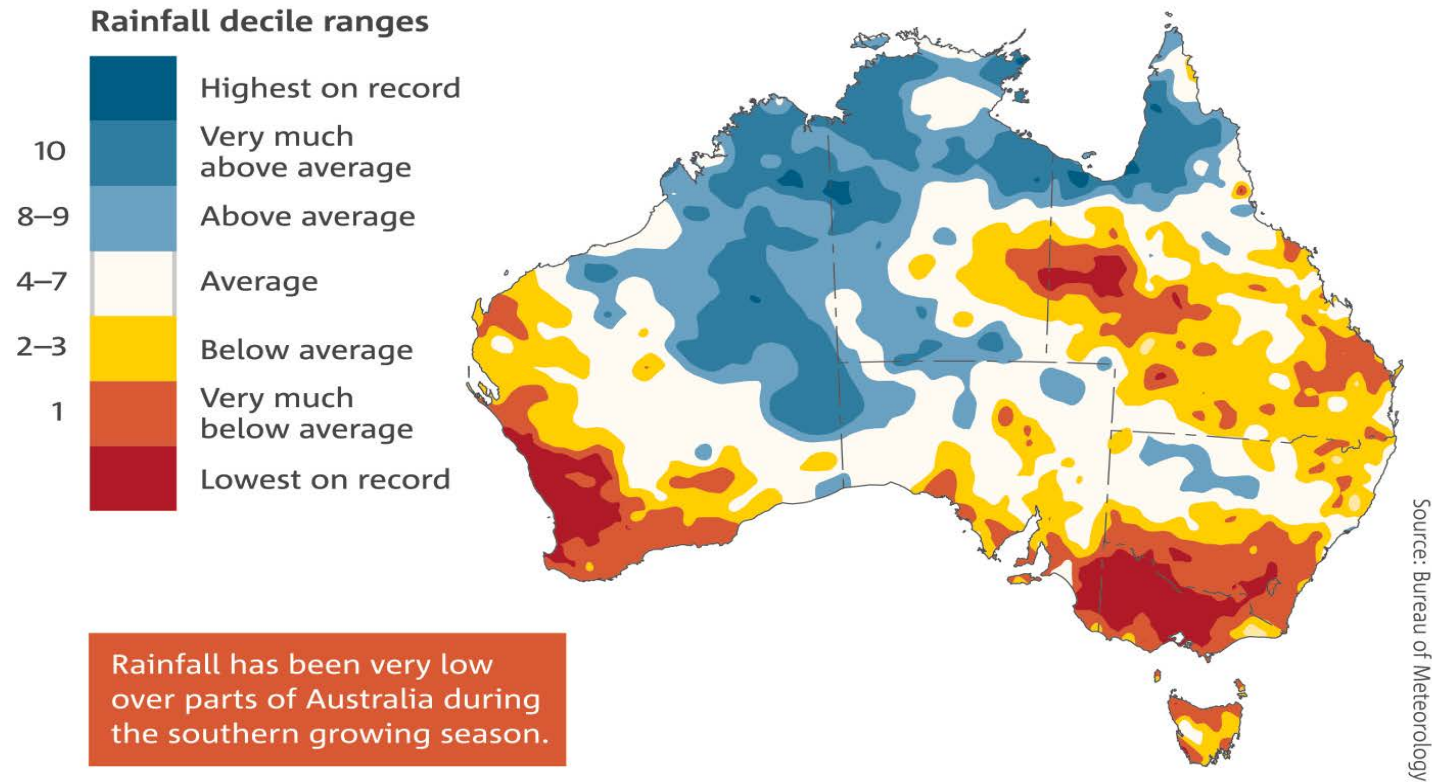
Share of farm numbers and output by farm size 1978-1980 and 2014-2016



## Society's expectations of farmers

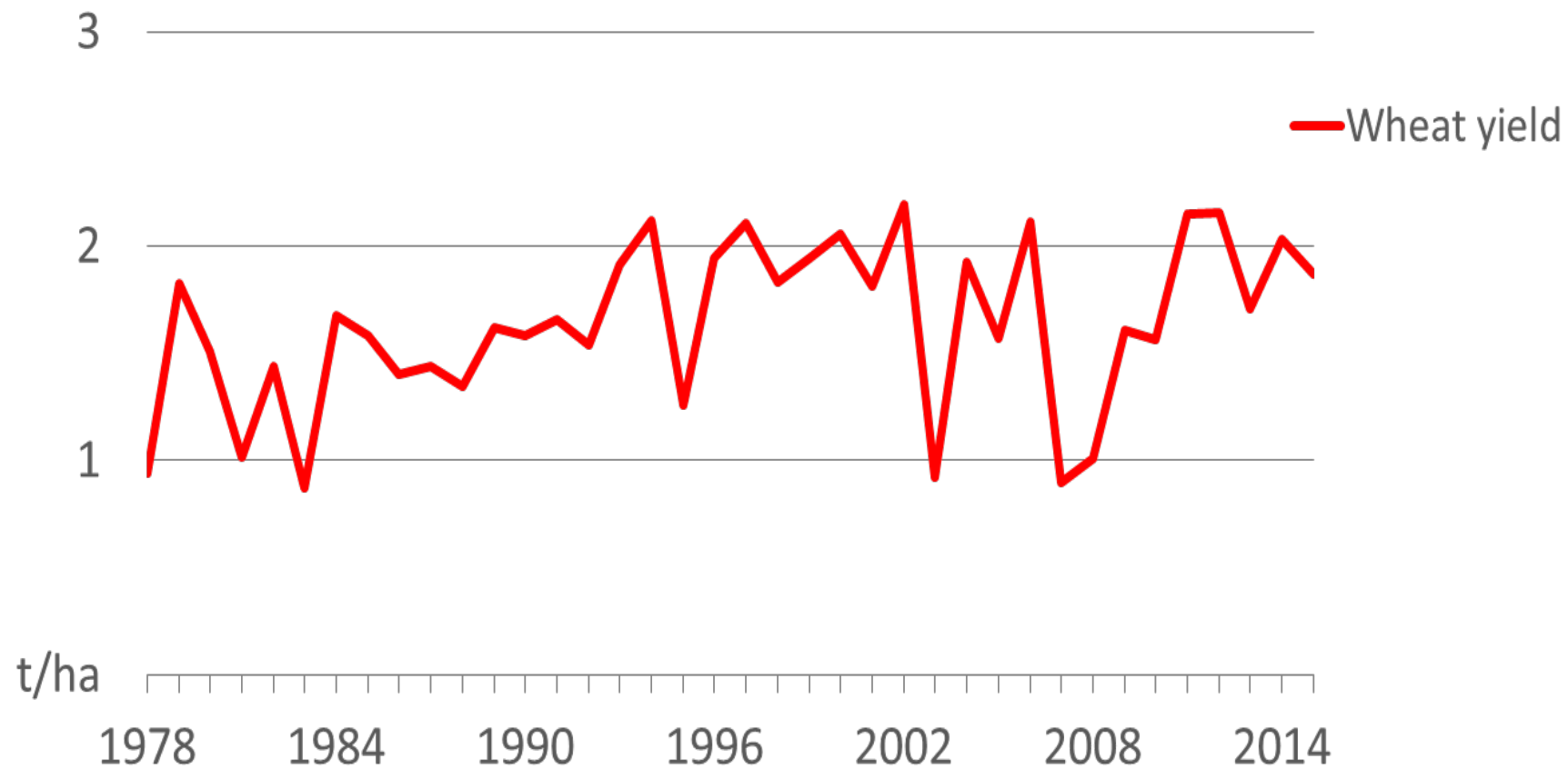


# Adaptation to climate change

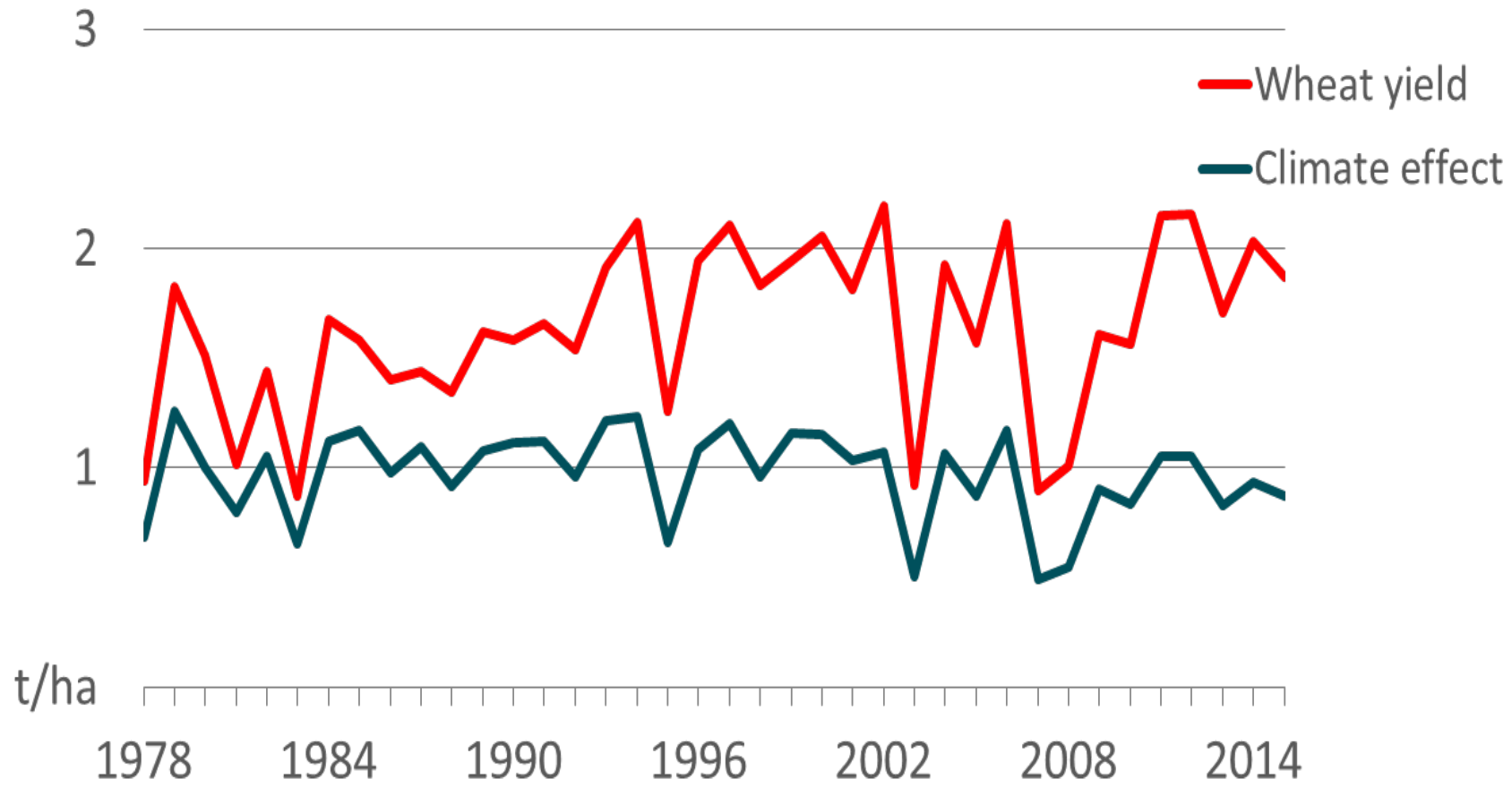


Southern growing season (April–October) rainfall deciles for the last 20 years (1996–2015). A decile map shows where rainfall is above average, average or below average for the recent period, in comparison with the entire rainfall record from 1900.

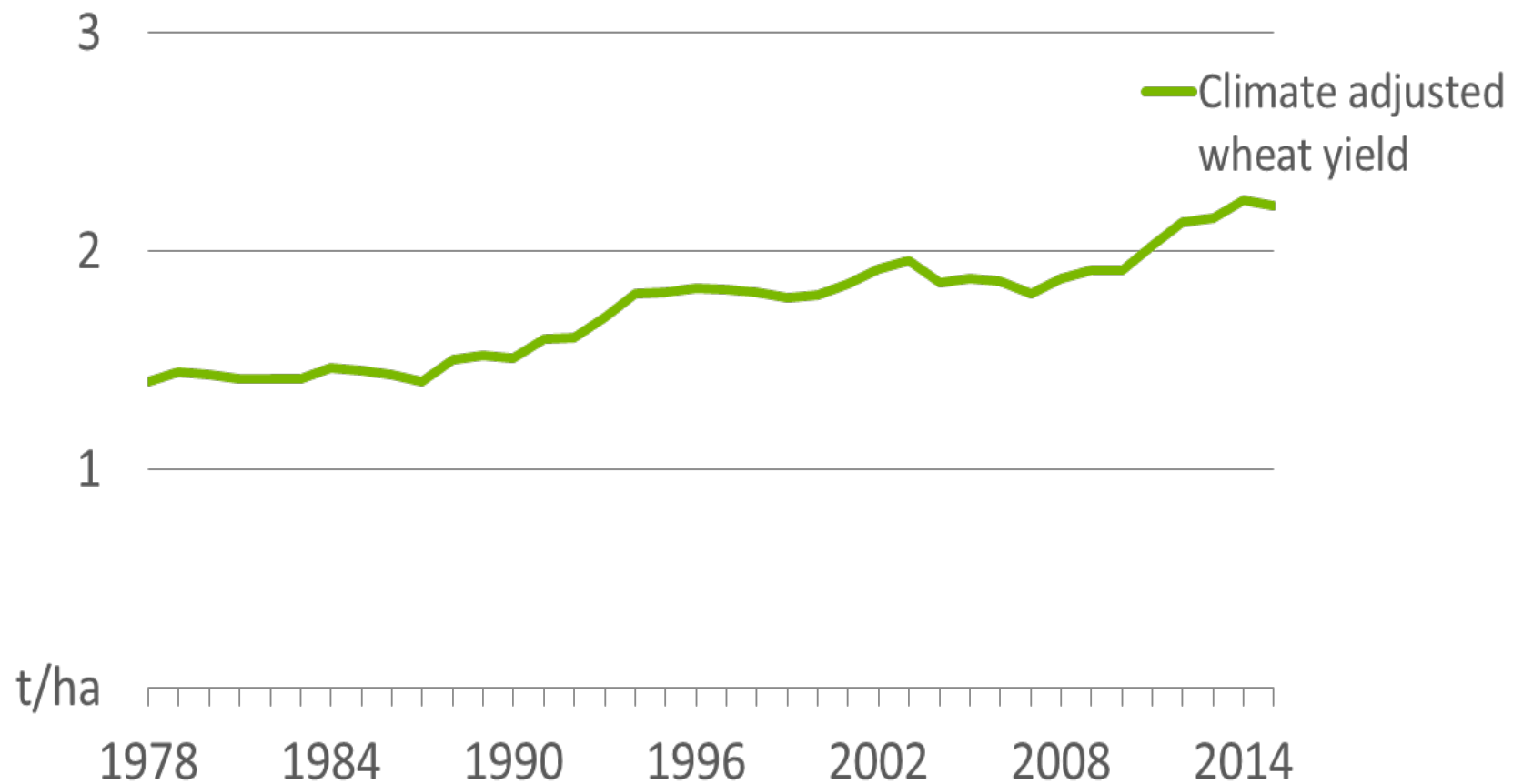
## Effect of climate on productivity growth



## Effect of climate on productivity growth



## Effect of climate on productivity growth





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