

# Feeding the world

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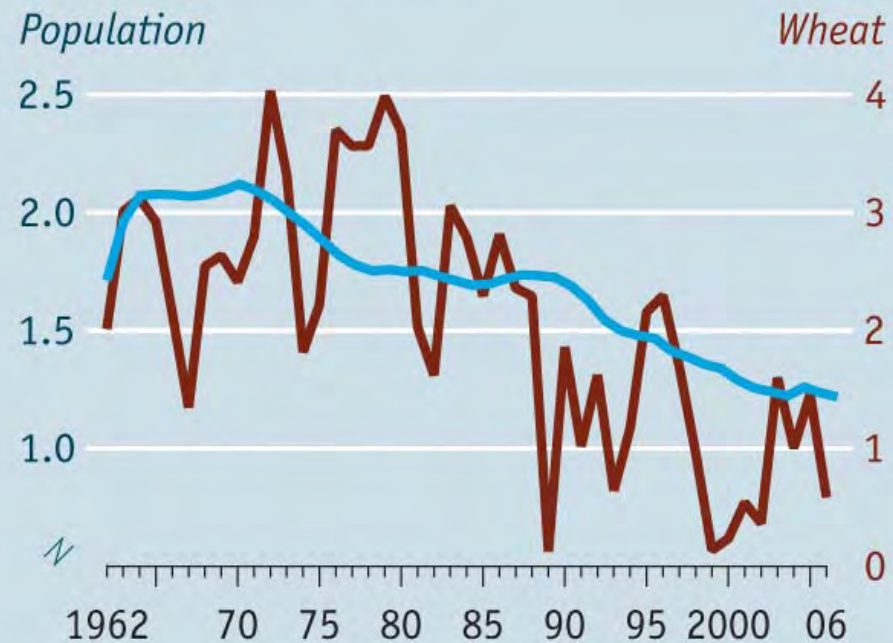
# More people...



# ...means more grain

## World wheat demand and population growth

% increase on previous year

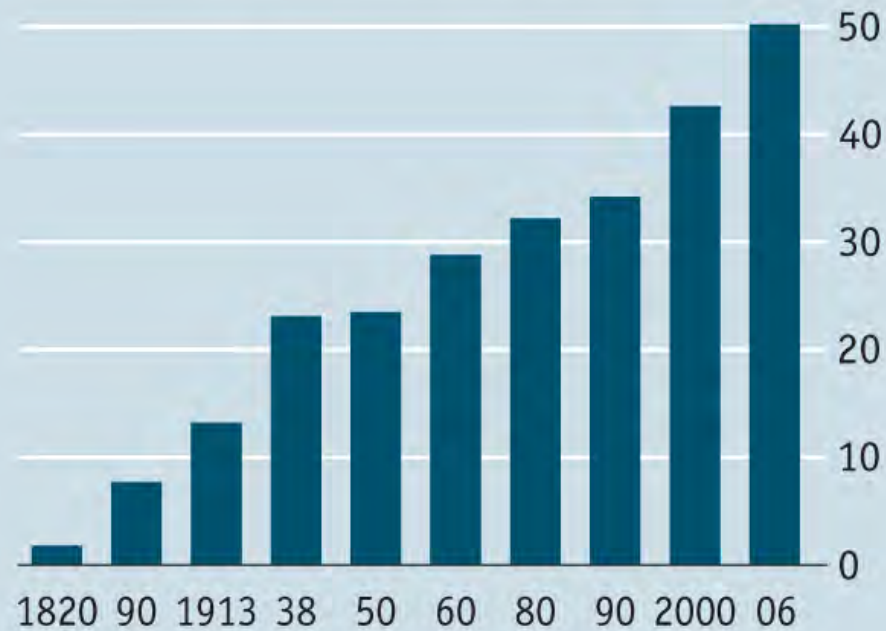


Source: Goldman Sachs

# More middle class...

## Relentless rise

Middle-class population as % of world total



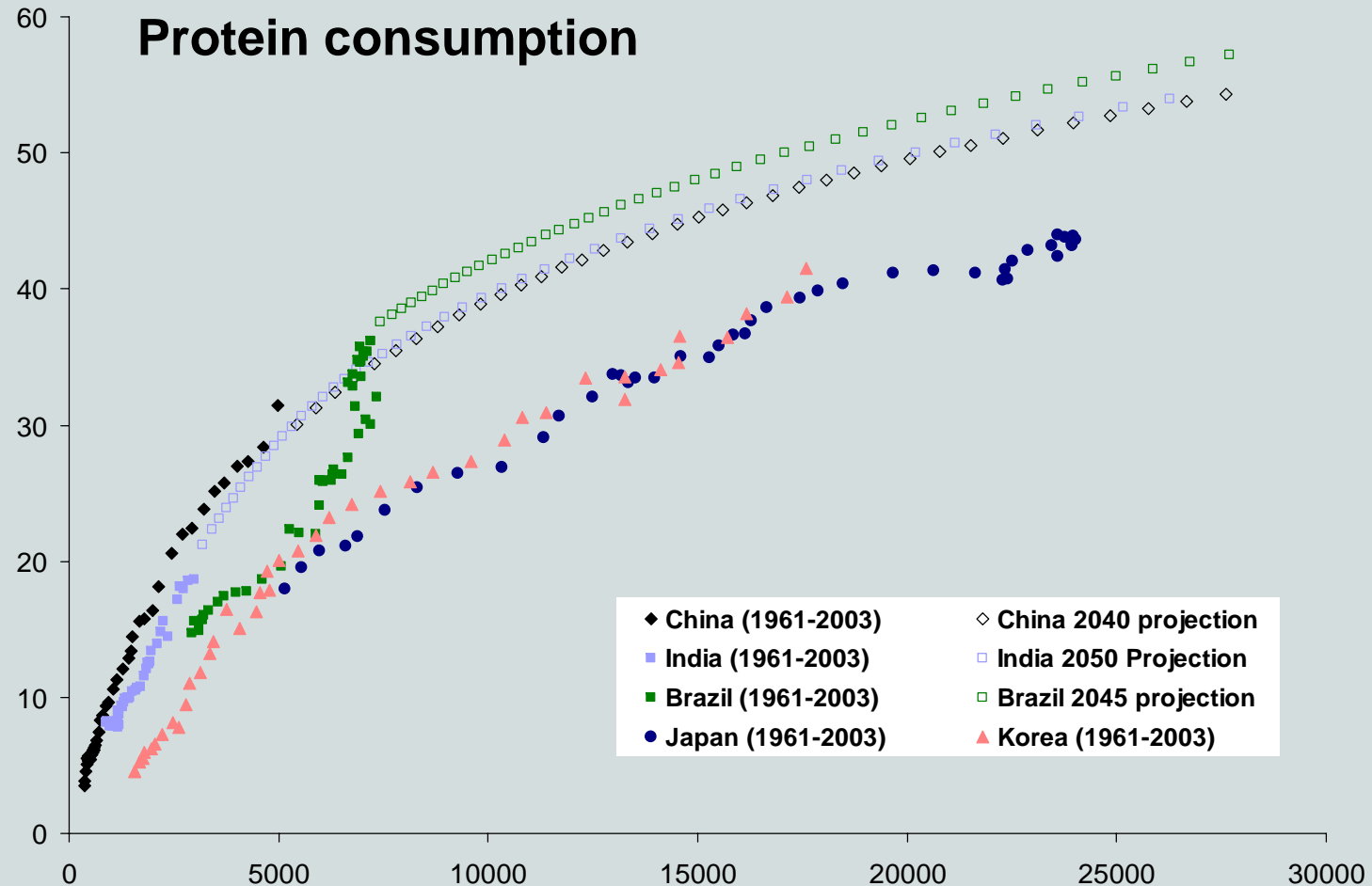
Source: Surjit Bhalla, *"The Middle Class Kingdoms of India and China"* (forthcoming)

## ...means more meat...

China:

- average meat consumption,  
1985: 20 kg
- average meat consumption,  
2007: 50 kg

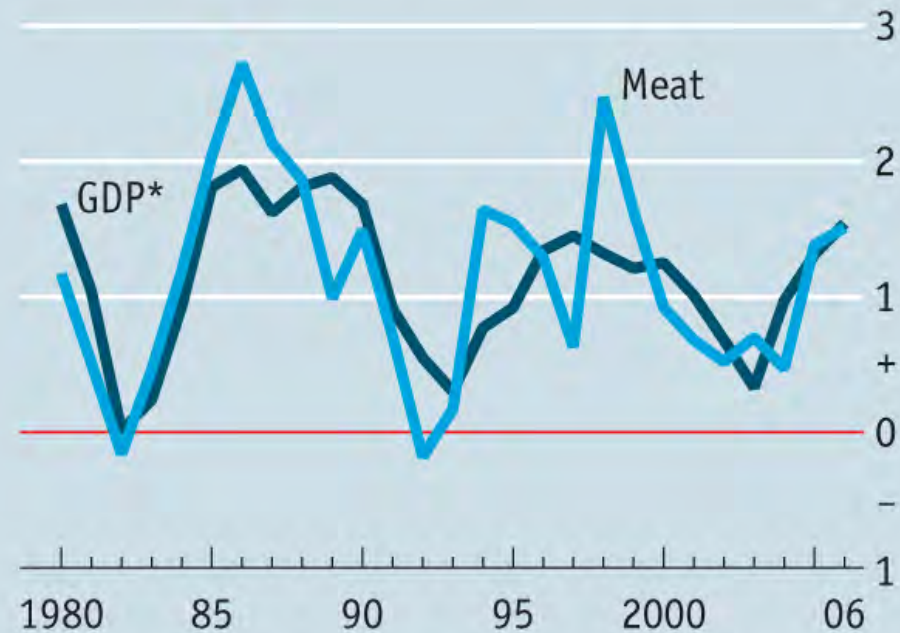
# ...and yet more meat



# Growth means meat

## World meat consumption and GDP growth\*

% change on previous year



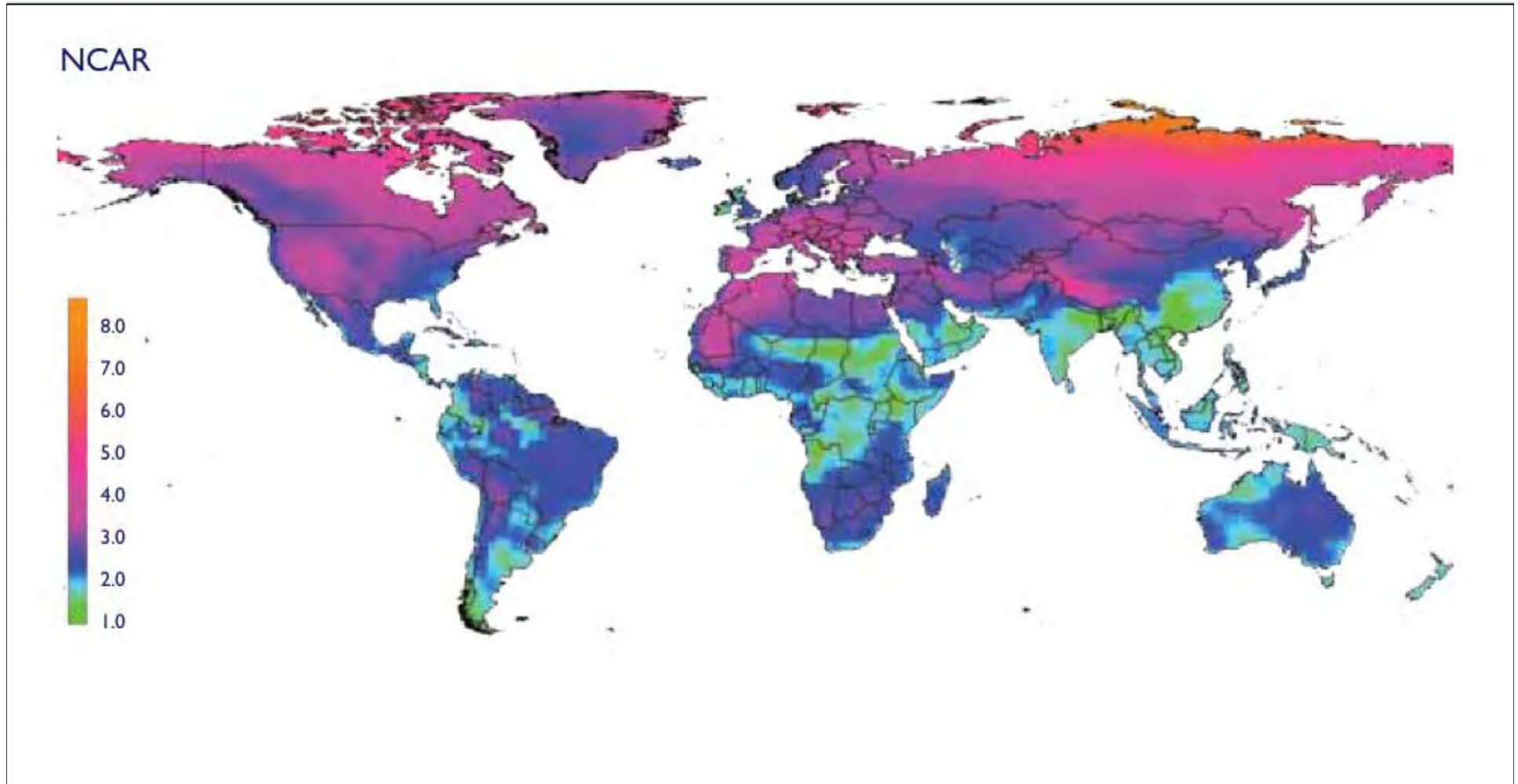
Source: Goldman Sachs

\*Estimates based on GDP per person

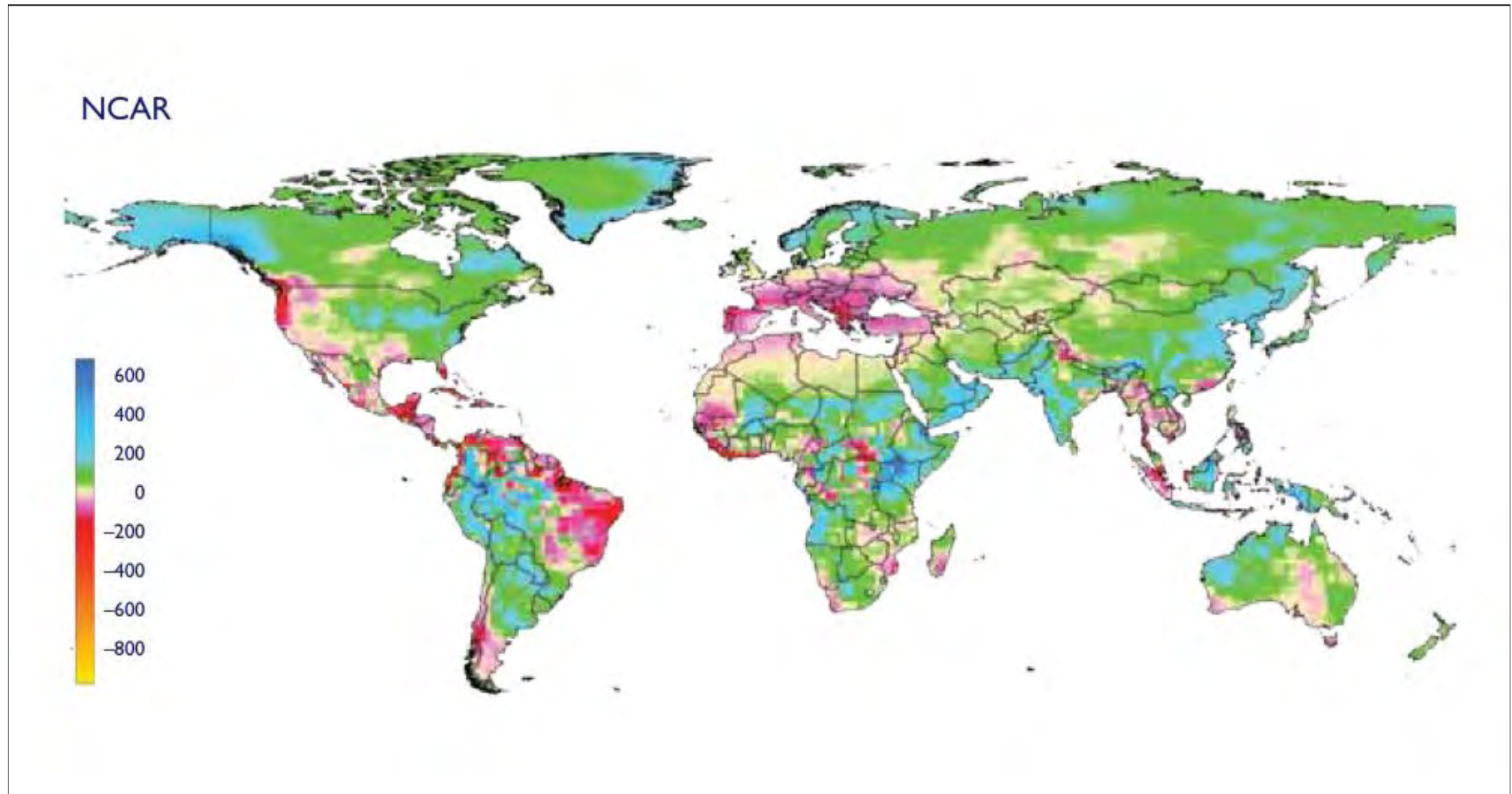
# Agriculture and climate change



# Warmer Canada, Europe, Russia; stable Africa, India, China



# Wetter Asia, North America; drier Europe



# Harvests of sorrow

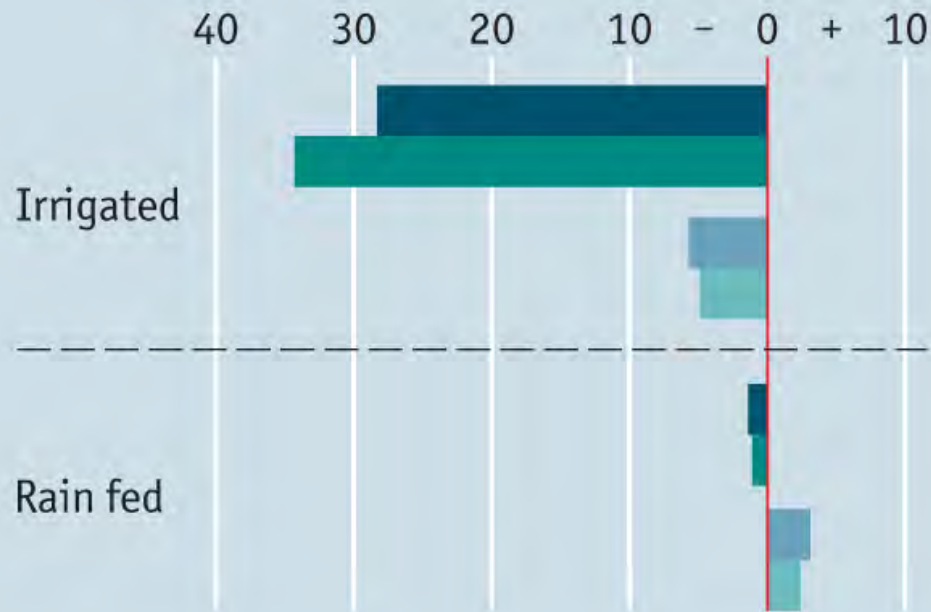
Wheat yield changes between 2000 and 2050\*  
Forecast scenarios, %

## Developing countries

CSIRO†-Australian  
NCAR‡-American

## Developed countries

CSIRO†  
NCAR‡



\*Assuming no CO<sub>2</sub> fertilisation

†Commonwealth Scientific & Industrial Research Organisation

‡National Centre for Atmospheric Research

Source: International Food Policy Research Institute

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