

Major agri-product production and consumption regions in the world

– current situation, development forecasts, fertilizers and agricultural production

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Better Crops, Better Environment ... through Science



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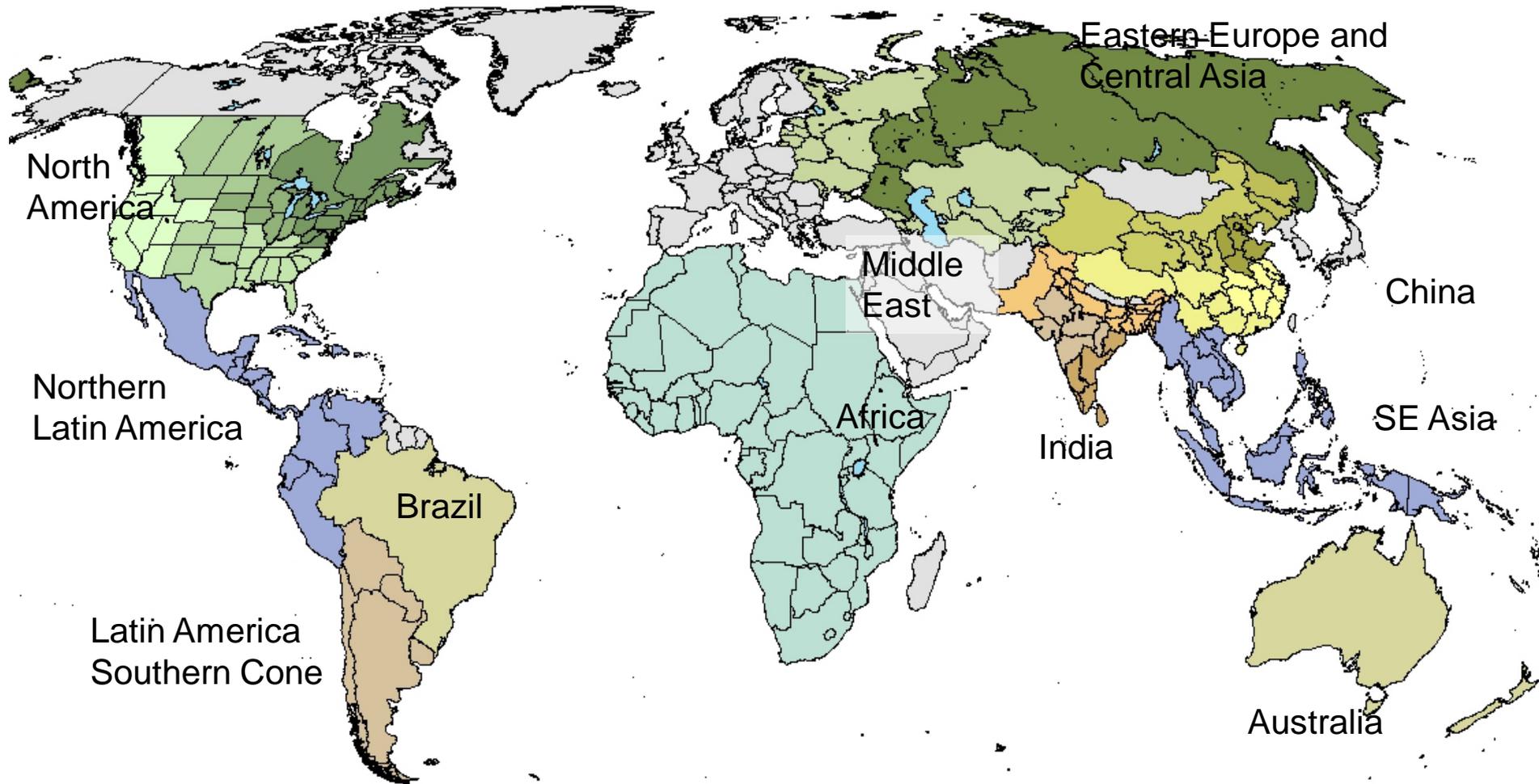


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IPNI Current Programs



- 30 Ph.D. scientists in 10 program areas
 - 9 scientists in North America
 - 17 scientists in International regions
 - 4 in management

Communications and Website

BETTER CROPS WITH PLANT FOOD

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FERTILIZER: An Investment For 2009 Crops

While baseball players are picking up bats and taking practice swings, all across North America there are farmers, crop advisers, fertilizer dealers, and others equally intent with pencils and calculators. There are tough decisions to be made soon for the 2009 crop season. There has been plenty of talk about price dictating 2009 cropping plans. Many crop producers have been holding off on decisions hoping for better prices; some are considering cutting back on phosphate or potash or both. There is no single answer that fits all circumstances, but it is important to remember that fertilizer is an investment that offers longer term benefits.

[Learn More](#)

The 4Rs: Right Source, Right Rate, Right Time, Right Place

A new innovative approach to best management practices (BMPs) for fertilizer is the **Right Source, Right Rate, Right Time, Right Place** concept. It is also known as the **4R nutrient stewardship concept**. It can be applied to managing either crop nutrients in general (including organic sources) or fertilizers in specific. This concept can help farmers and the public understand how the right management practices for fertilizer contribute to sustainability goals for agriculture. In a nutshell, the 4R nutrient stewardship concept involves crop producers and their advisers selecting the right source-rate-time-place combination from practices validated by research conducted by agronomic scientists. Goals for economic, environmental and social progress are set by—and are reflected in performance indicators chosen by—the stakeholders to crop production systems.

Regional Program Websites



Select a Program

- North America
- N Latin America
- Brazil
- Latin America-S Cone
- India
- China
- Southeast Asia

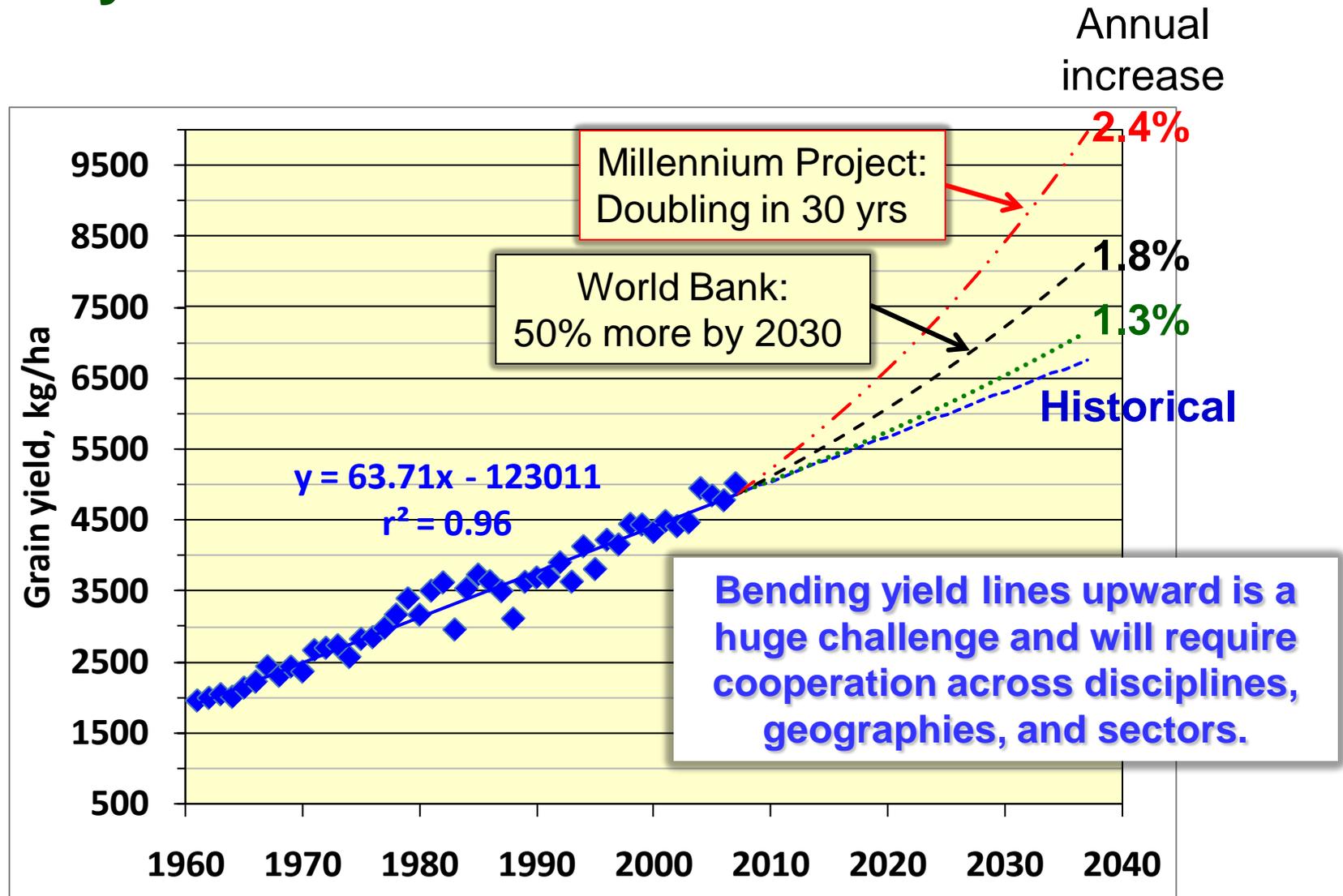




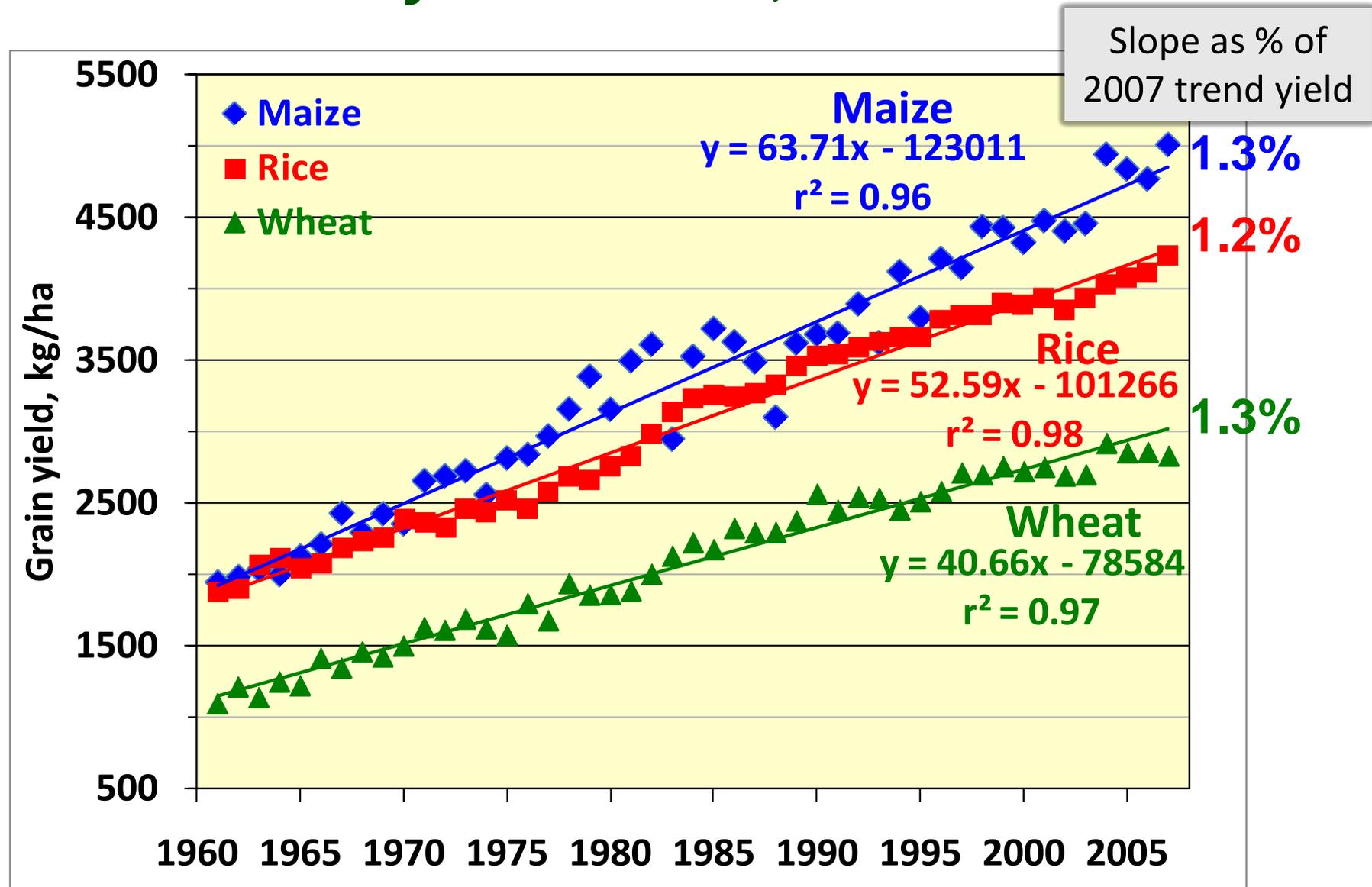
Challenges to Sustainable Agricultural Production

- A limited resource base
 - Land use change
 - Water scarcity and pollution
 - Biodiversity for food and agriculture
- Climate change
- Biofuels
- The need for an ecosystem approach to agriculture and environment

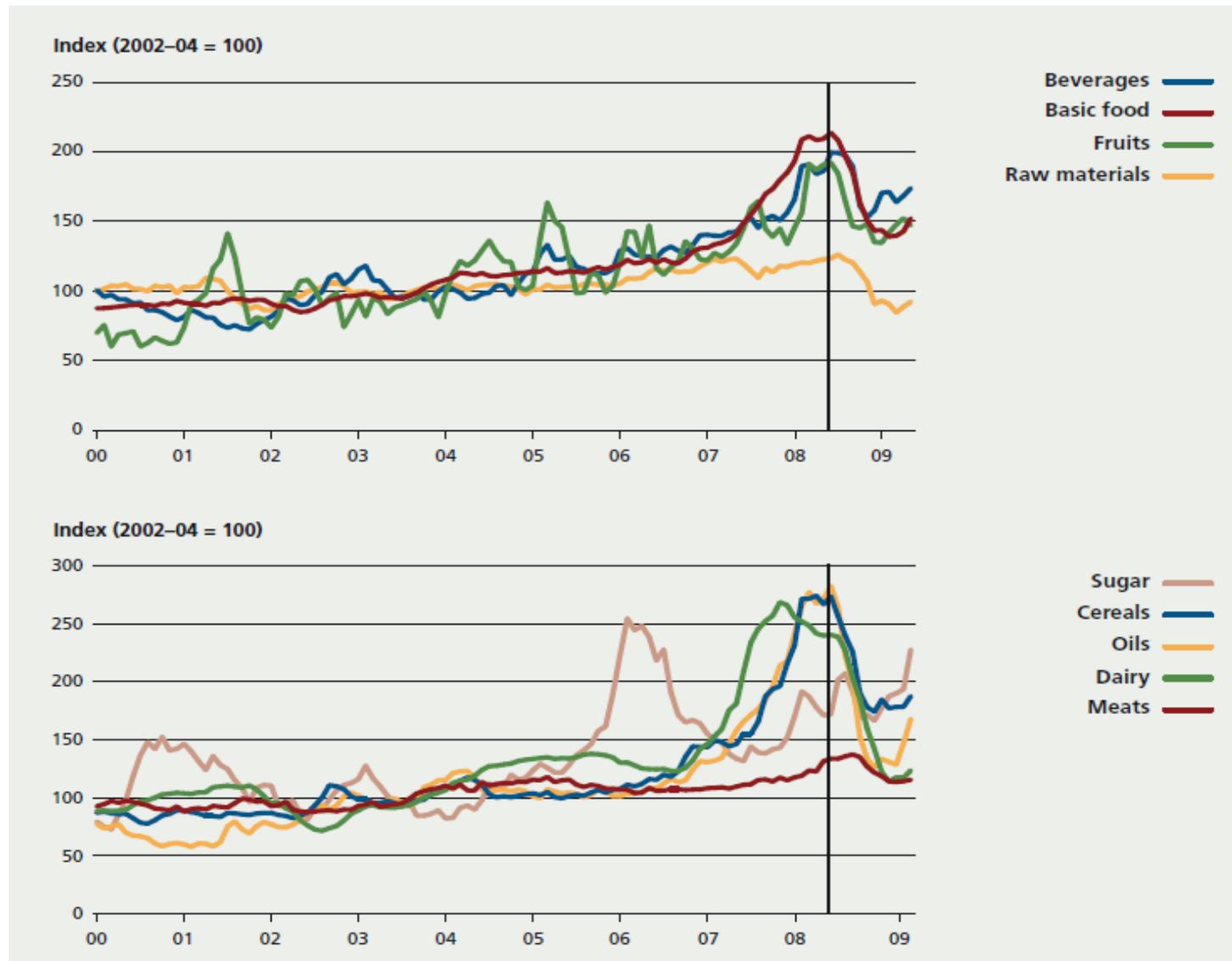
Future food demand projections applied to maize yields.



Global cereal yield trends, 1961-2007

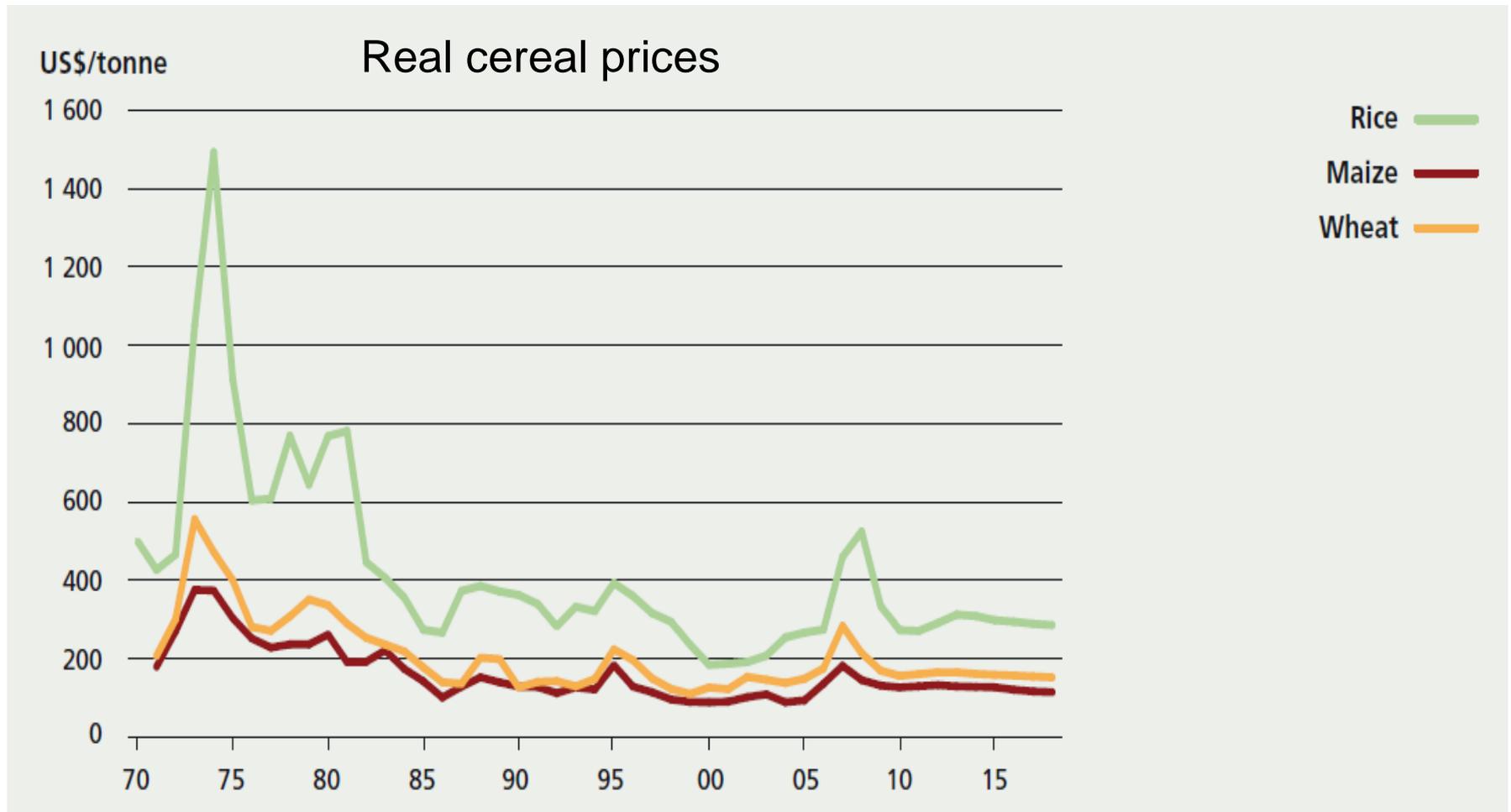


Indices of agricultural prices



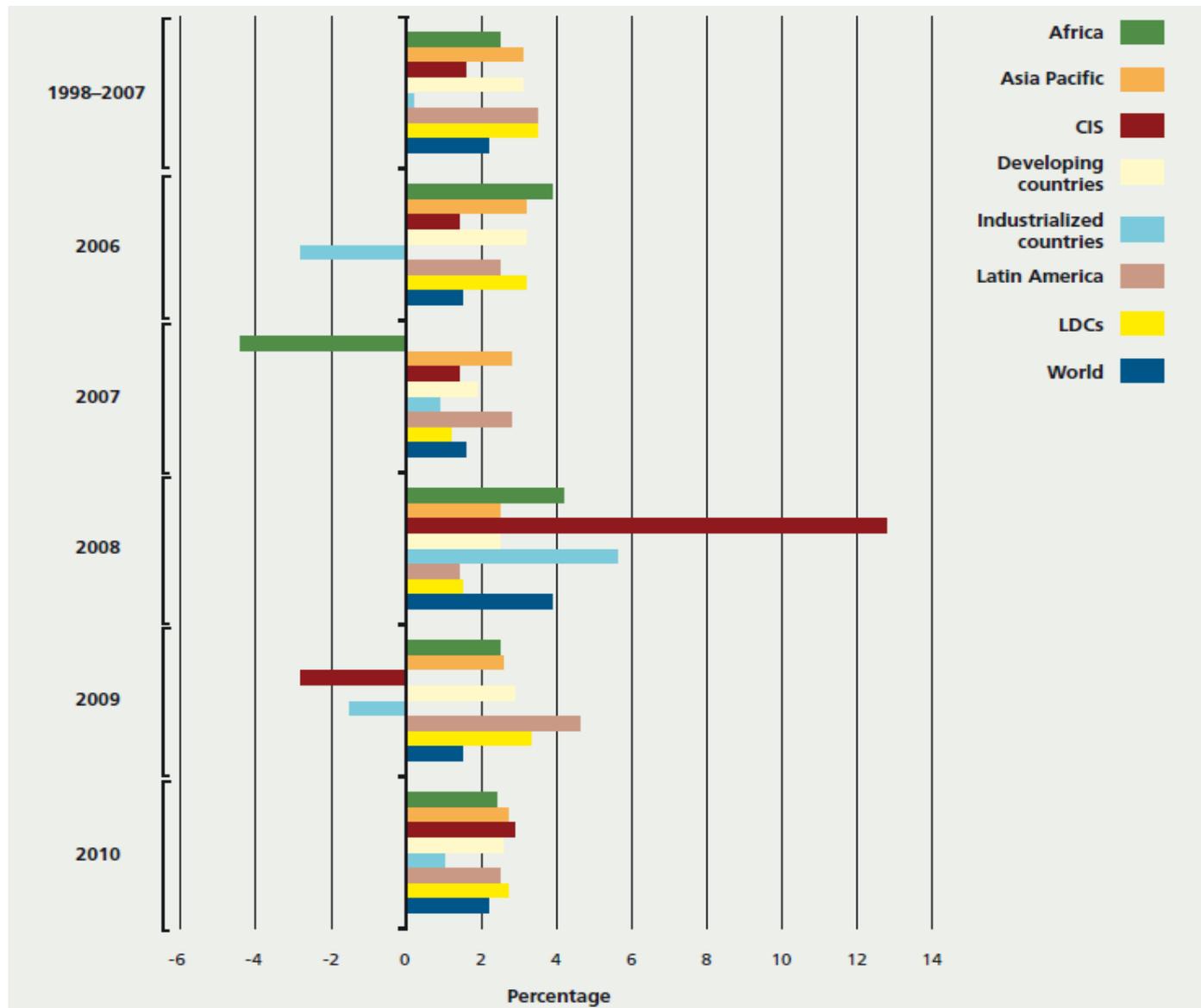
Source: FAO food price indices; IMF raw material and beverage indices (rebased); fruit index constructed, FAO. Published in *The state of food and agriculture*, FAO 2009.

Medium-term prospects for international agricultural commodity prices



Source: OECD-FAO, 2009, for projections from 2009 to 2018. Published in *The state of food and agriculture, FAO 2009*.

Growth in agricultural production, by region

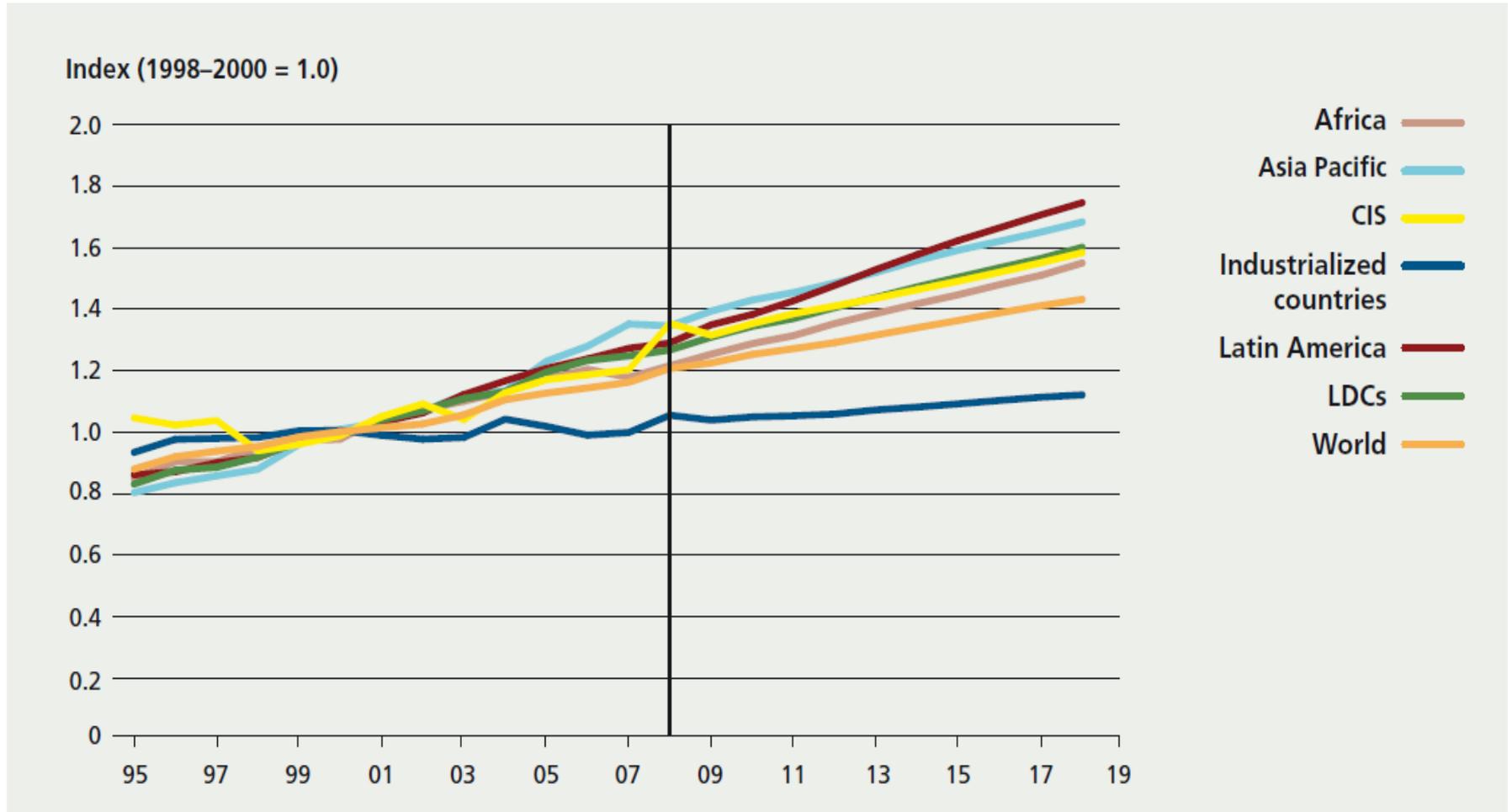


Source: FAOSTAT net agricultural production index to 2007 (FAO, 2009b).

Extrapolation based on OECD-FAO, 2009. Published in *The state of food and agriculture, FAO 2009*.



Long-term trends in agricultural production, by region

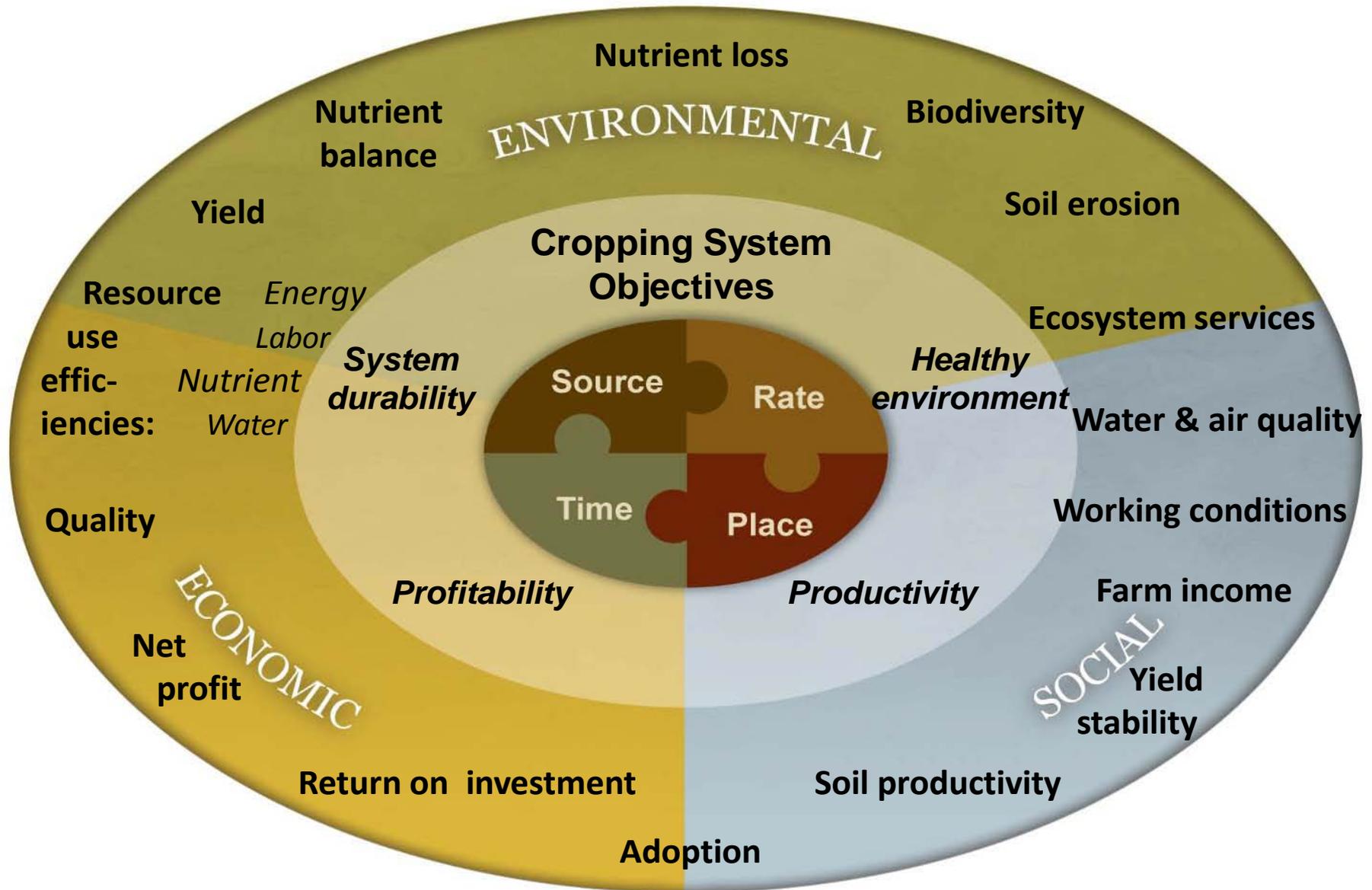


Source: FAOSTAT net agricultural production index to 2007.

Extrapolation based on OECD-FAO, 2009. Published in *The state of food and agriculture, FAO 2009*.



The 4R nutrient stewardship framework



Source: Tom Bruulsema et al., 2008.



Thank you for attention!

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