

Opening Remarks

Chandra A. Madramootoo, President



INCID
The Indian National Committee
on Irrigation and Drainage



ICID • CIID
The International Commission
on Irrigation and Drainage

**60th International Executive Council Meeting
& 5th Asian Regional Conference**
6-11 December 2009, New Delhi, India



PRESIDENT ANNOUNCES MEASURES AGAINST RISING FOOD PRICES

Government to subsidise increases on flour

- 5% pay hike for government workers, retroactive to January
- \$4,000 additional tax free for those earning below \$50,000 per month
- \$20M in seeds, fertilisers, pesticides to increase food production



The Economist

Beal on the next oil giant
Send help, Italy
Lambert's theory that land allocation
The return of Obama
Cancer's link to stress-eats

The silent tsunami

The food crisis and how to solve it

WATER FOR FOOD PRODUCTION



5th WORLD WATER FORUM
ISTANBUL 2009

BRIDGING DIVIDES
FOR WATER

UN WATER

ICID-CIID

SUMMARISED CONCLUSIONS AND RECOMMENDATIONS TOPIC 2.3

Water and Food for Ending Poverty and Hunger

Prof. Chandra A. Madramootoo
President, International Commission on
Irrigation and Drainage (ICID)
McGill University, Canada

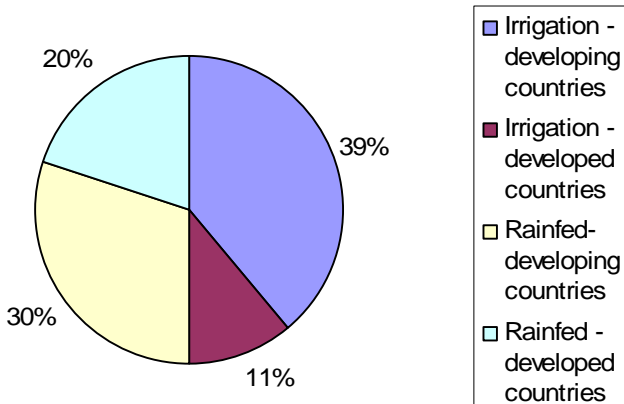


For full report see: www.icid.org

- Women and rural livelihoods
- Land and water assets
- Access to credit
- Access to markets



Cereal Production Irrigated and Rainfed Agriculture



- Enhancing land and water productivity
- Enhancing basin productivity
- Increasing system efficiency gains
- Rehabilitation, modernization and system reforms



The arid and semi-arid tropics

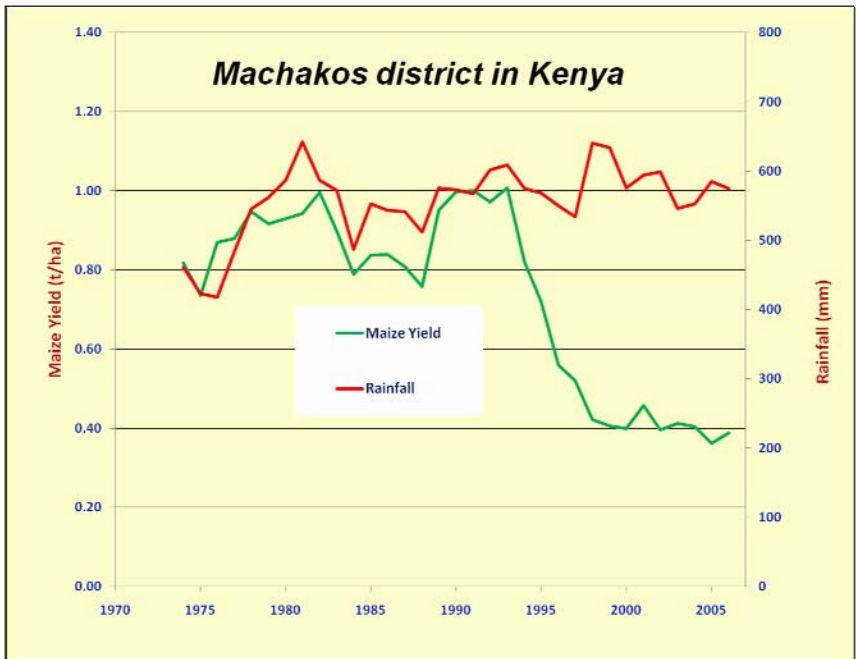
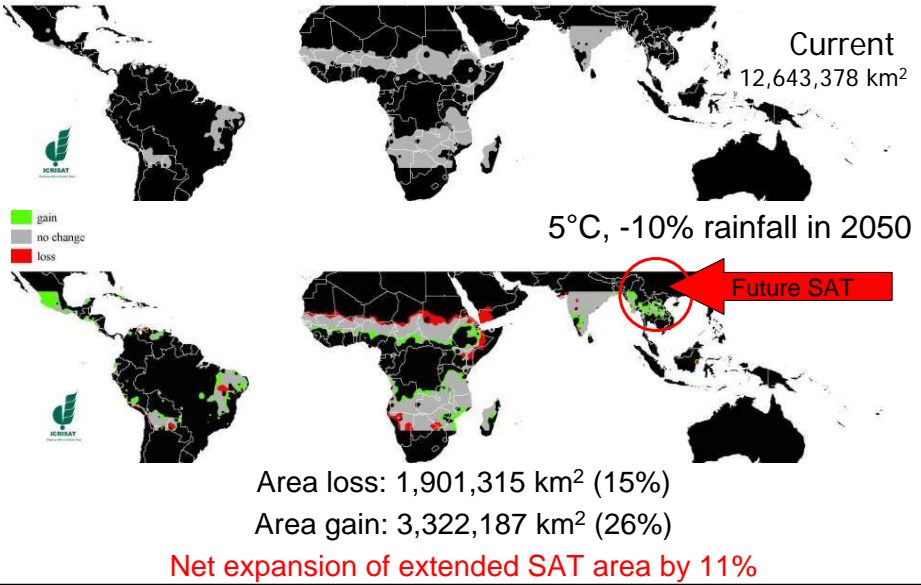


Home of the world's poorest 800+ million people

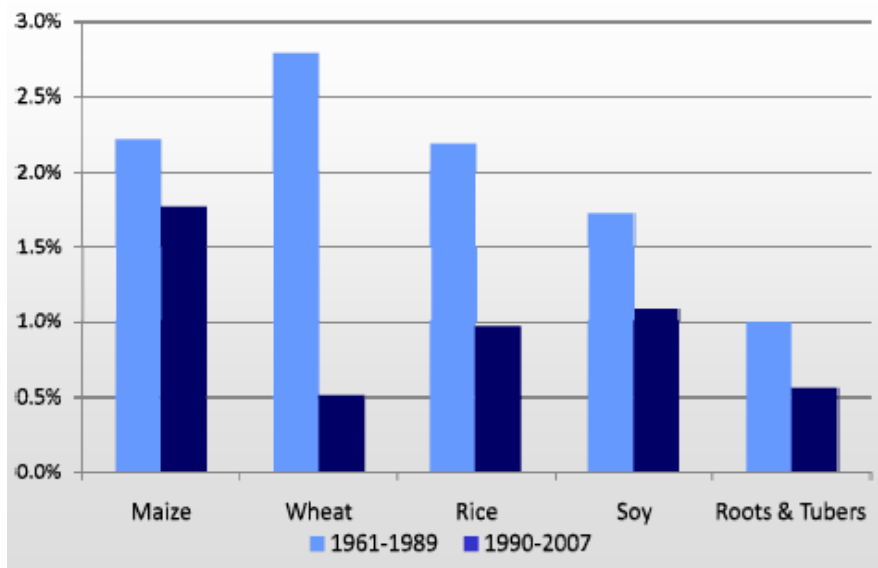
Unpredictable climate, low/erratic rainfall and poor soils

Inadequate physical and social infrastructure

Potential impacts of climate change



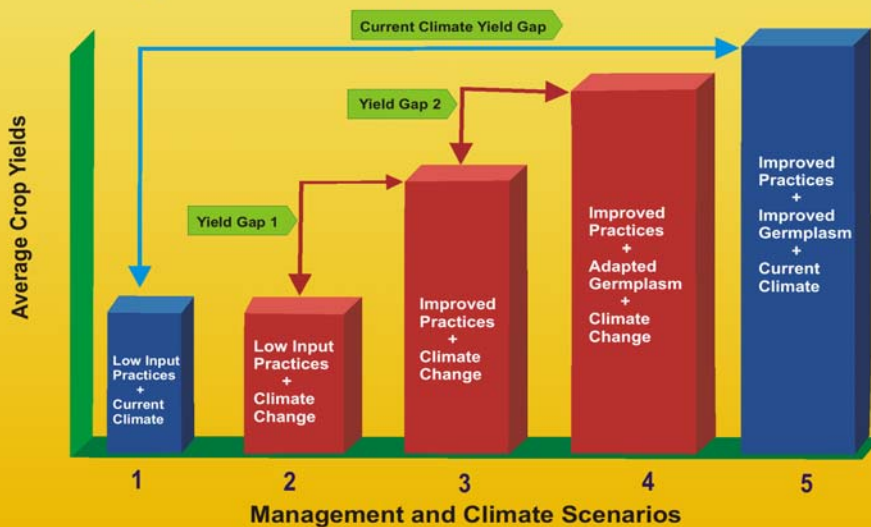
Global Average Yields – Annual Percent Change (Pardey, 2009)



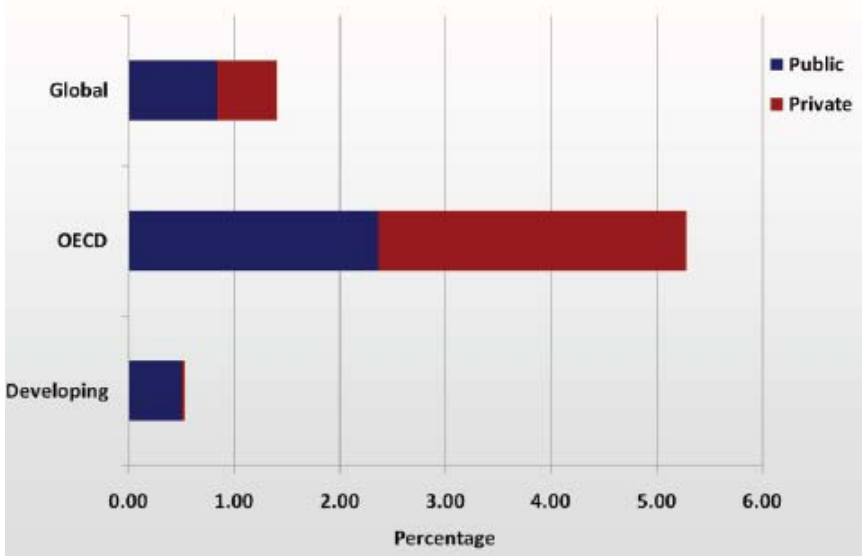
Managing water under conditions of scarcity



Narrowing the yield gap



Intensity of Agricultural R&D, 2000 (Pardey, 2009)



ICID·CID

Rebuilding leadership in irrigation and drainage research





THANK YOU



ICID·CIID

THANK YOU





Water, Food, Fuel, Finance





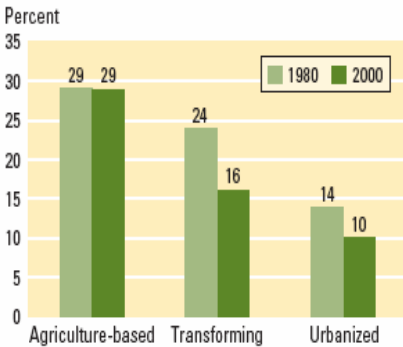
Today we use 30% less water to grow a crop than we did 25 years ago.



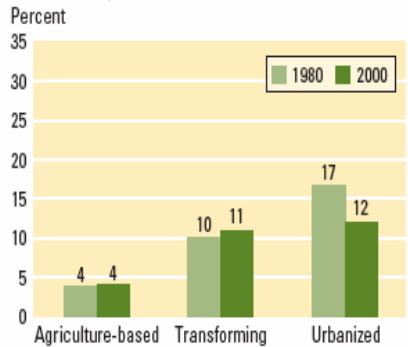


THANK YOU

Agricultural GDP/GDP

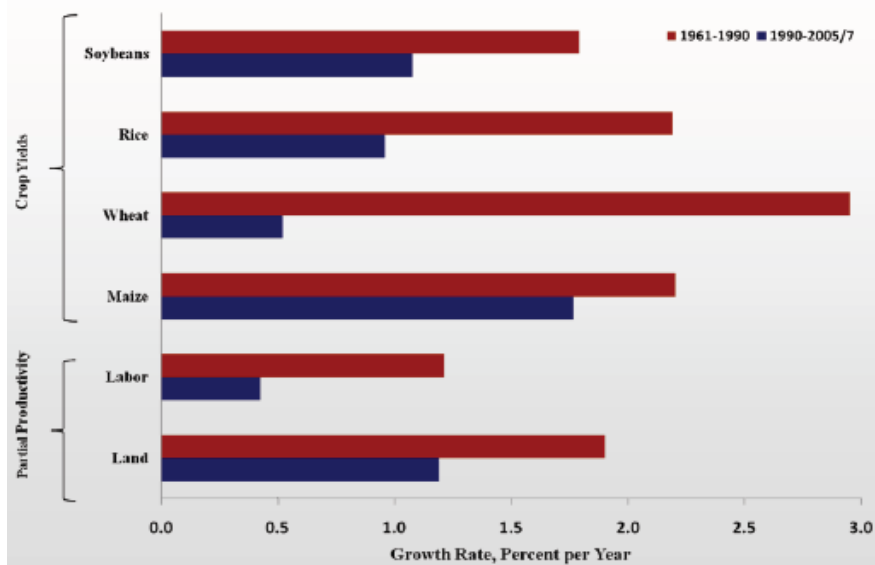


Public spending on agriculture/agricultural GDP

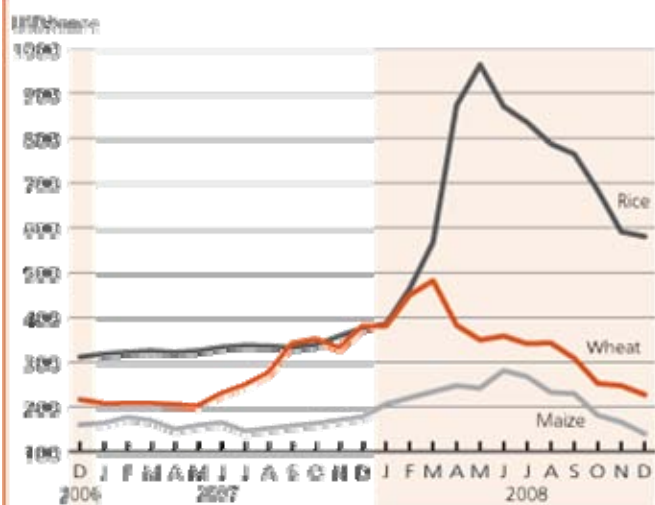


Public spending on agriculture is lowest in the agricultural based countries, while their share of agriculture in GDP is highest

Growth in Global Crop Yields and Productivity, 1961-2007



Selected international cereal prices



Note: Base year is the monthly average for December 2004. For more details, see page 10.

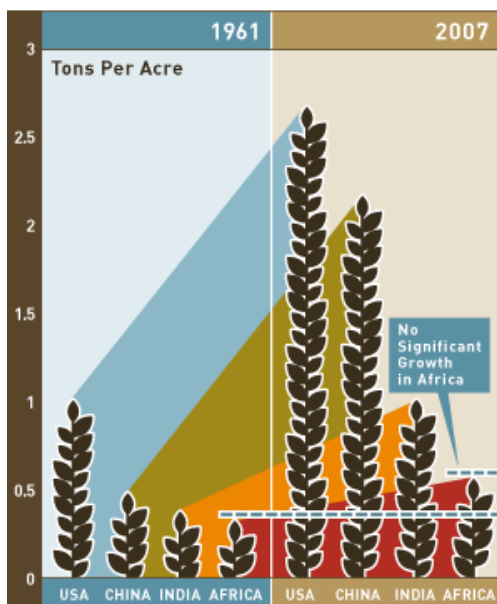


CHART 4: Africa missed out on the Green Revolution.