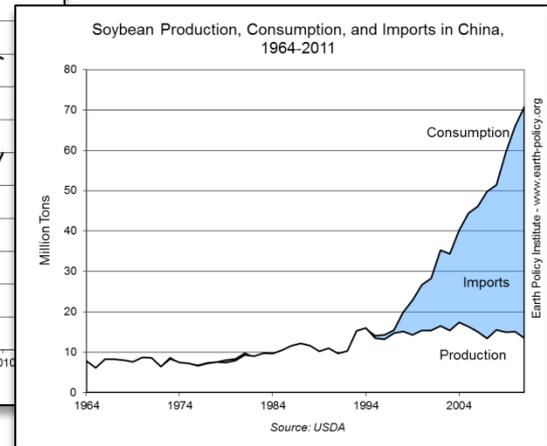
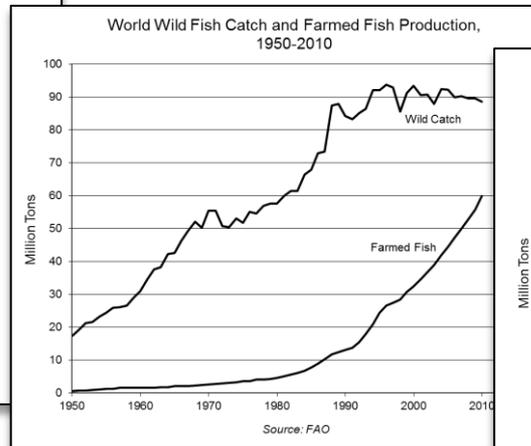
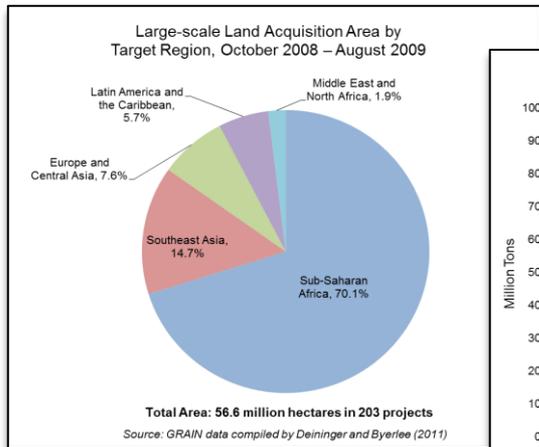
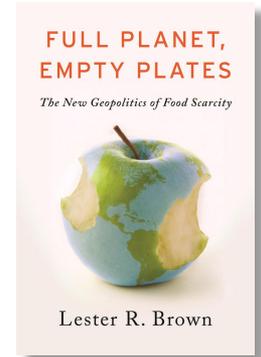
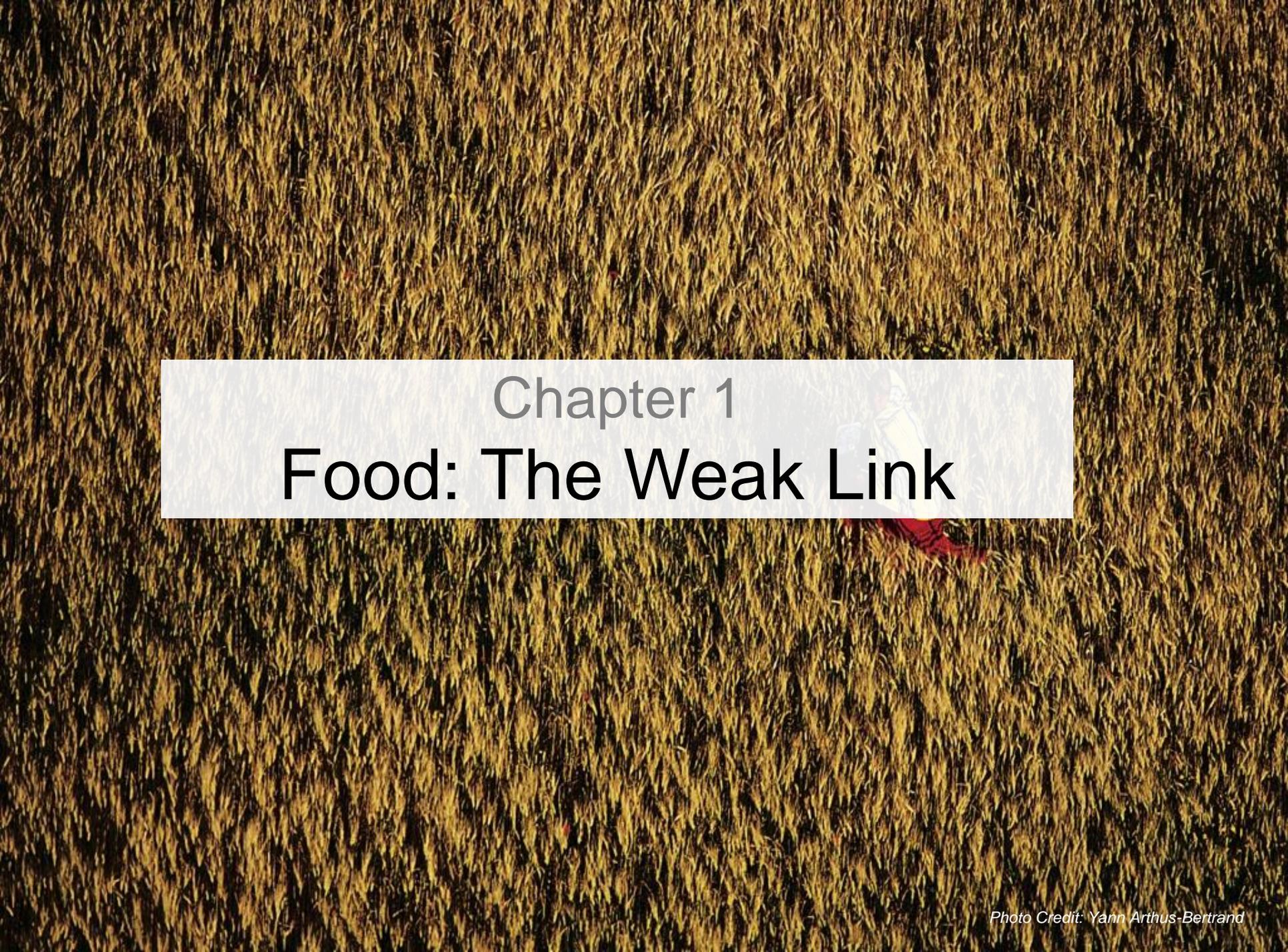


Select supporting data for Lester R. Brown's

Full Planet, Empty Plates: The New Geopolitics of Food Scarcity

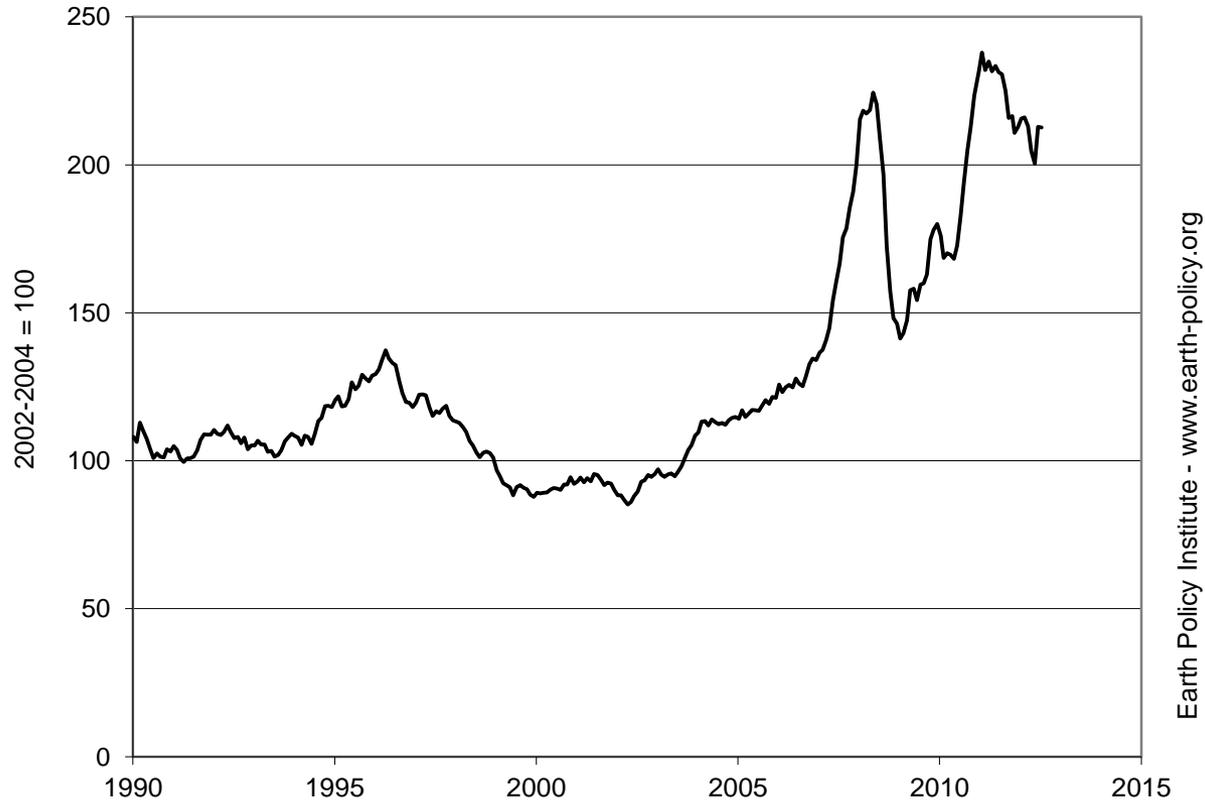


An aerial photograph of a vast, golden wheat field. The rows of wheat are densely packed and stretch across the entire frame. In the lower right quadrant, a small figure of a person wearing a bright red shirt is visible, providing a sense of scale to the massive field. The lighting is warm, suggesting late afternoon or early morning.

Chapter 1

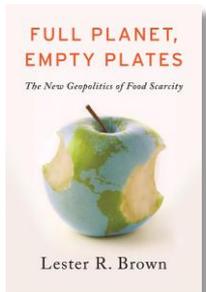
Food: The Weak Link

World Monthly Food Price Index, January 1990 - August 2012

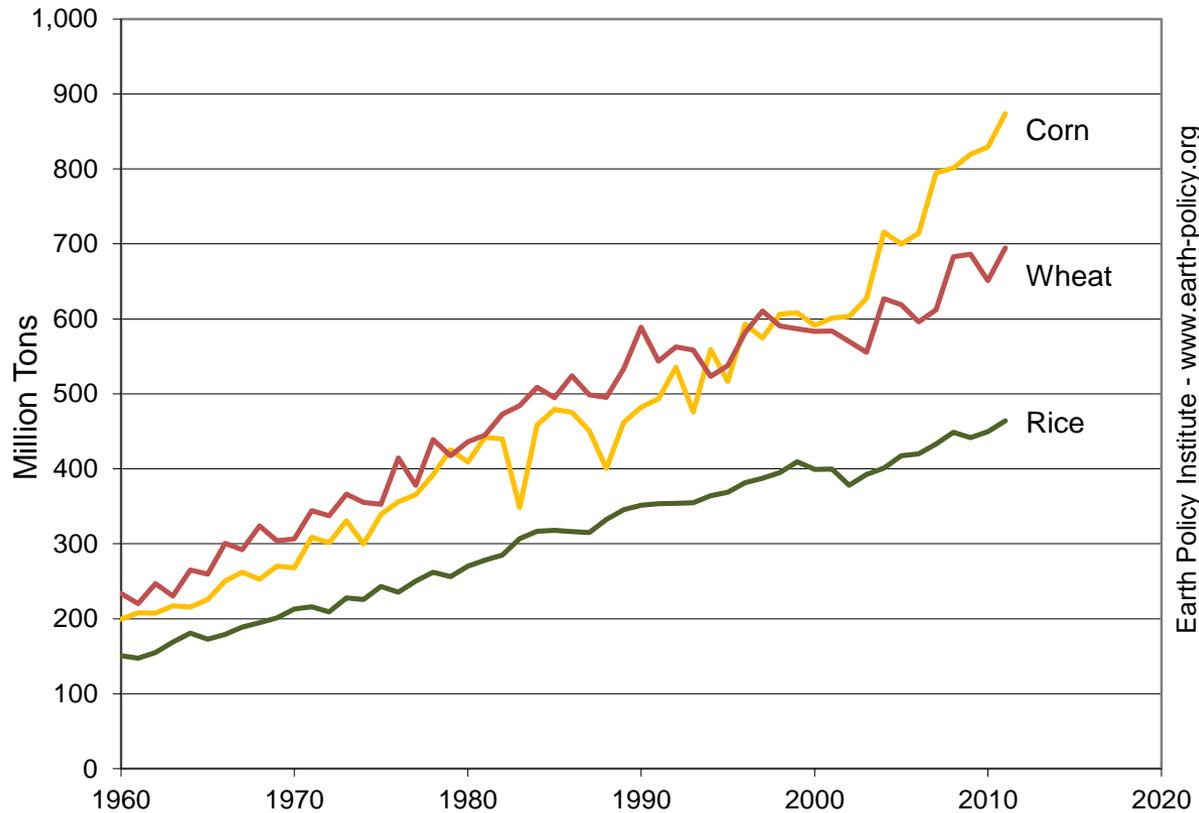


Source: FAO

Earth Policy Institute - www.earth-policy.org

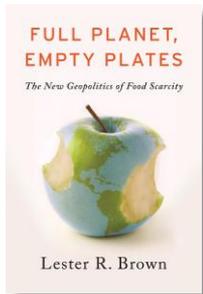


World Corn, Wheat, and Rice Production, 1960-2011

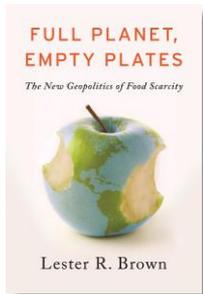
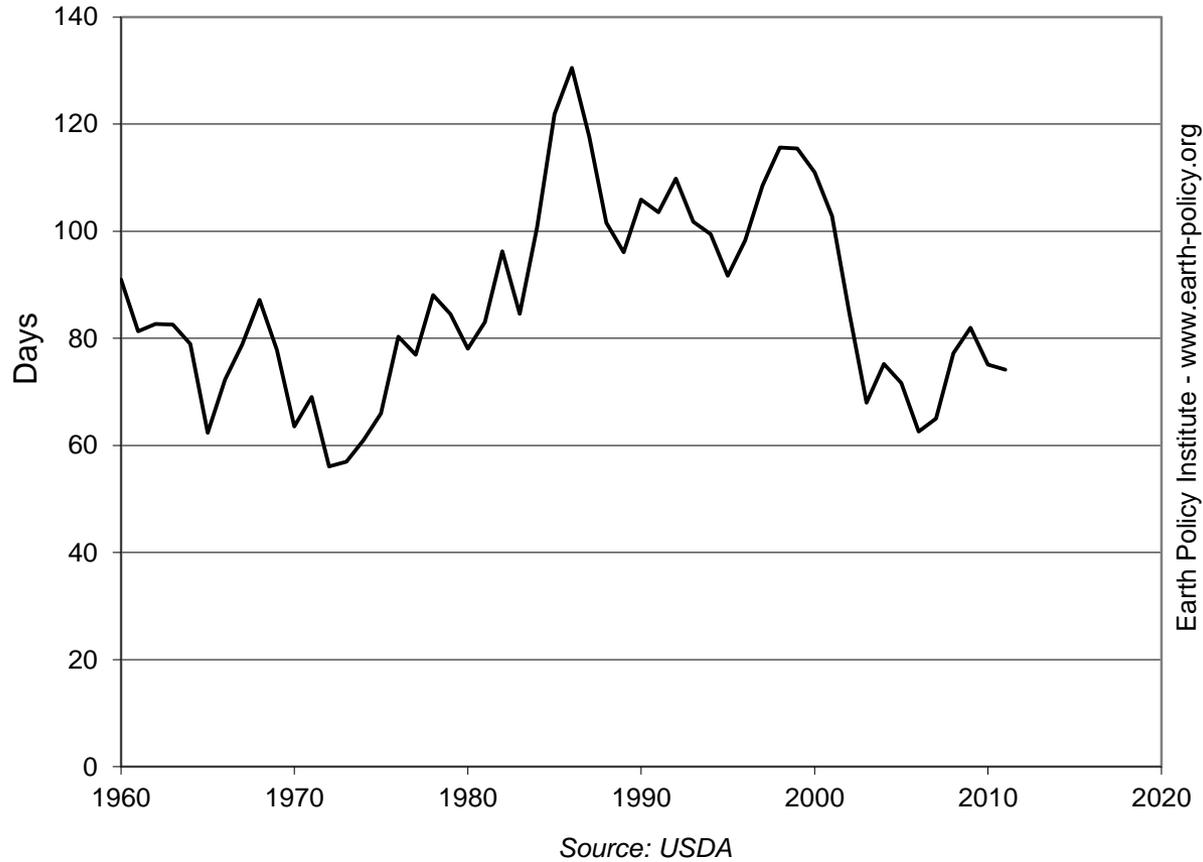


Source: USDA

Earth Policy Institute - www.earth-policy.org



World Grain Stocks as Days of Consumption, 1960-2011

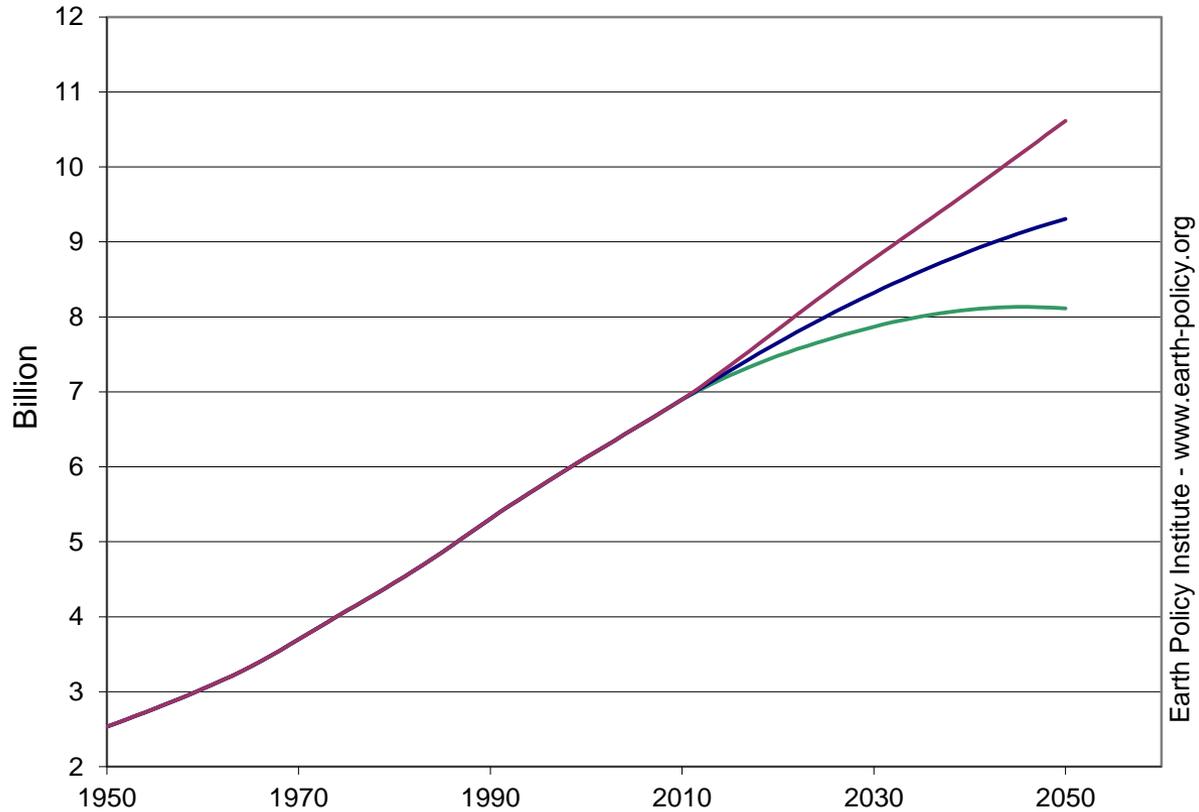




Chapter 2

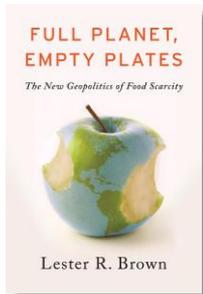
The Ecology of Population Growth

World Population, 1950-2010, with Projections to 2050

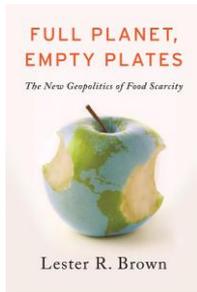
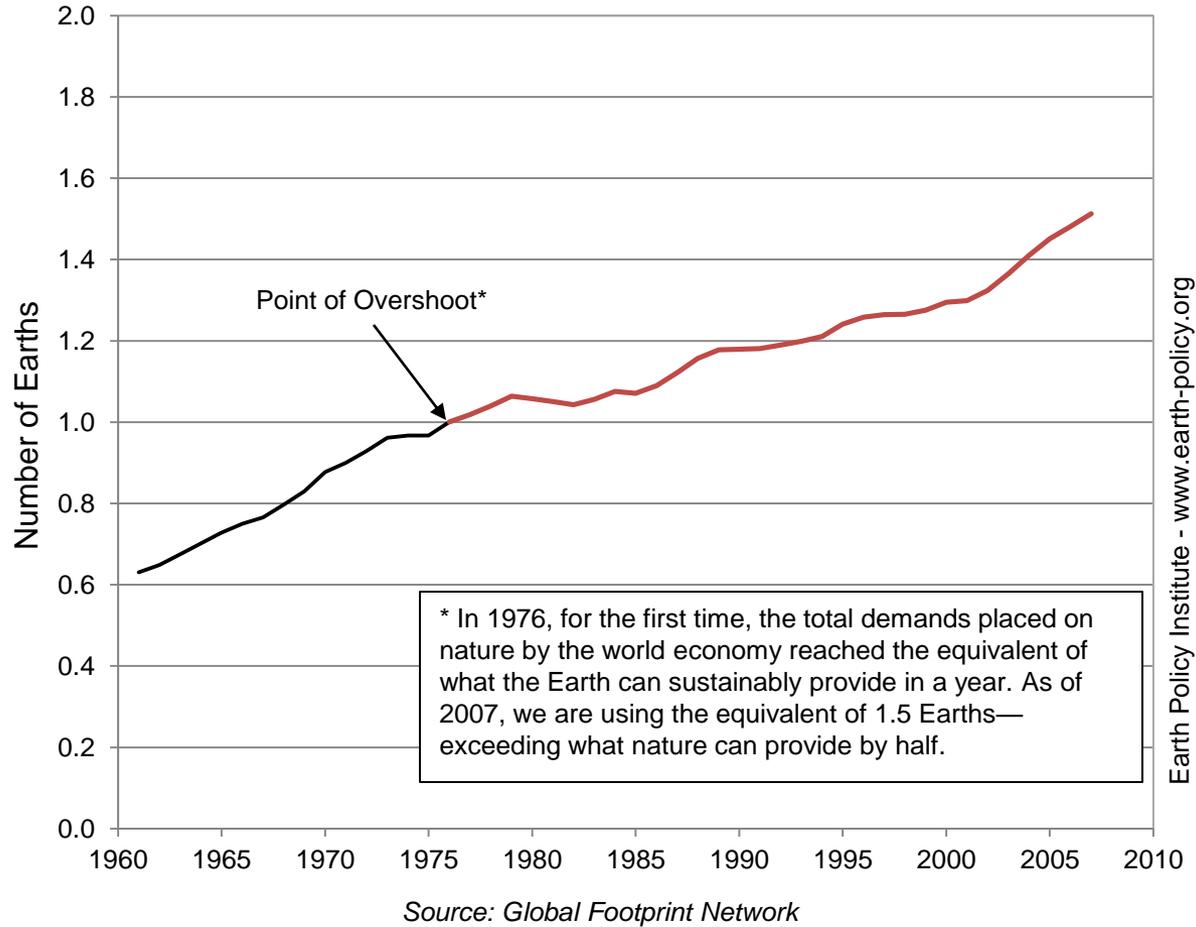


Source: UNPop

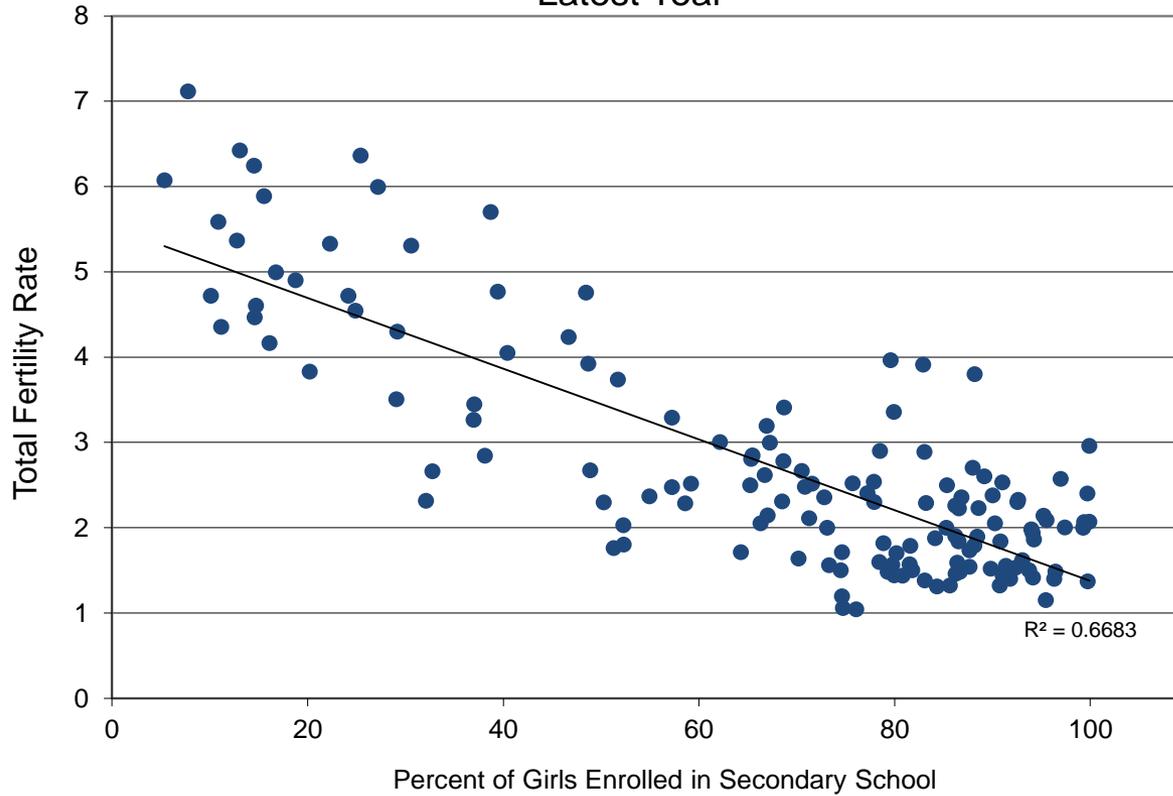
Earth Policy Institute - www.earth-policy.org



Humanity's Ecological Footprint, 1961-2007

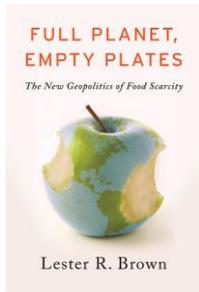


Female Secondary Education and Total Fertility Rates, Latest Year



Earth Policy Institute - www.earth-policy.org

Source: EPI from UIS

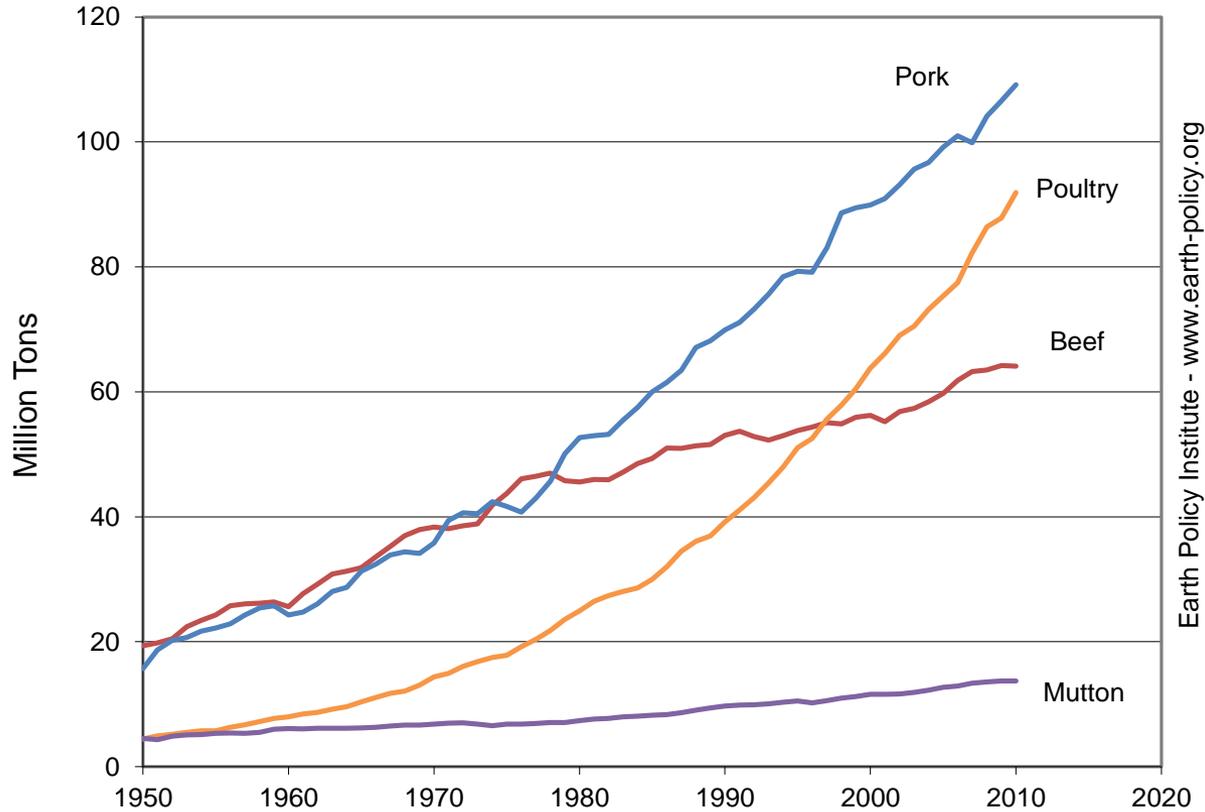


A large, dense flock of white turkeys with prominent red heads, filling the entire frame. The birds are packed closely together, creating a sea of white feathers and red necks. The lighting is bright, highlighting the texture of the feathers and the color of the heads.

Chapter 3

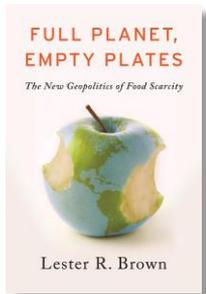
Moving Up the Food Chain

World Meat Production by Type, 1950-2010

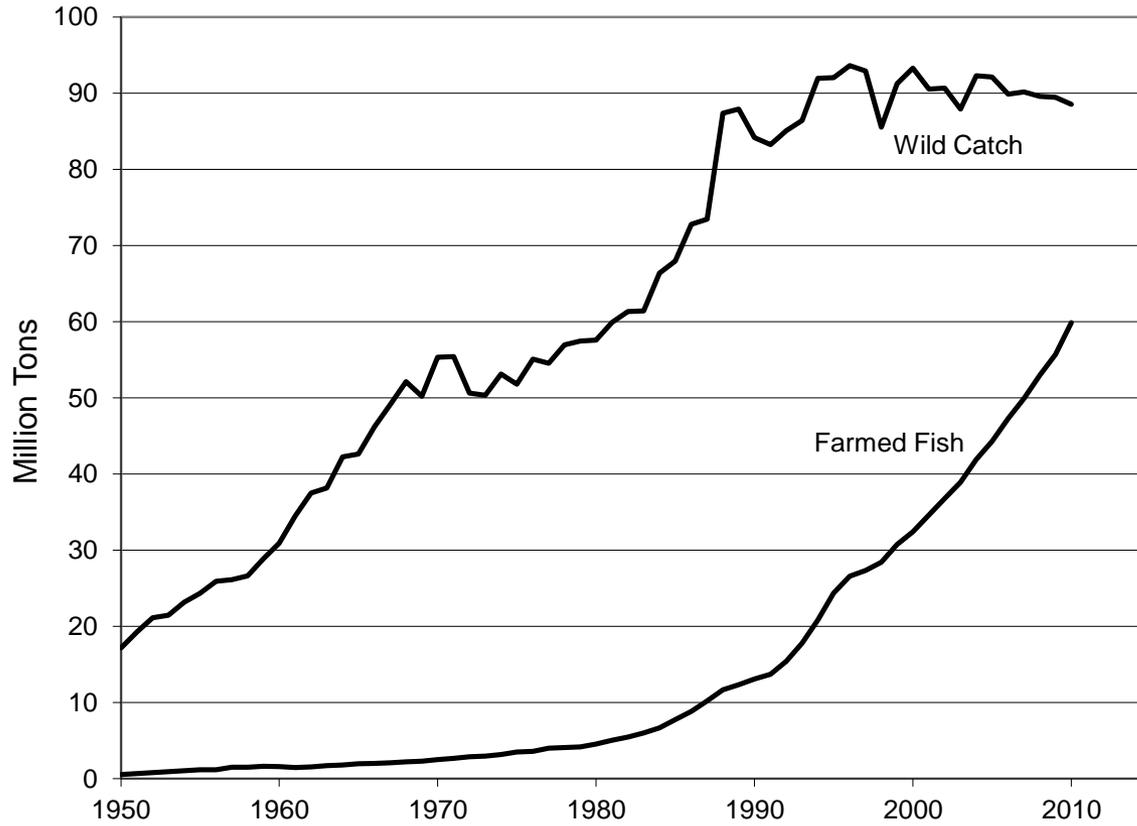


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Source: Worldwatch, FAO

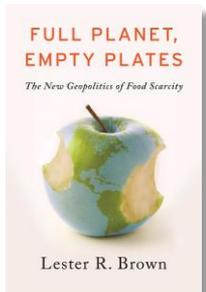


World Wild Fish Catch and Farmed Fish Production, 1950-2010

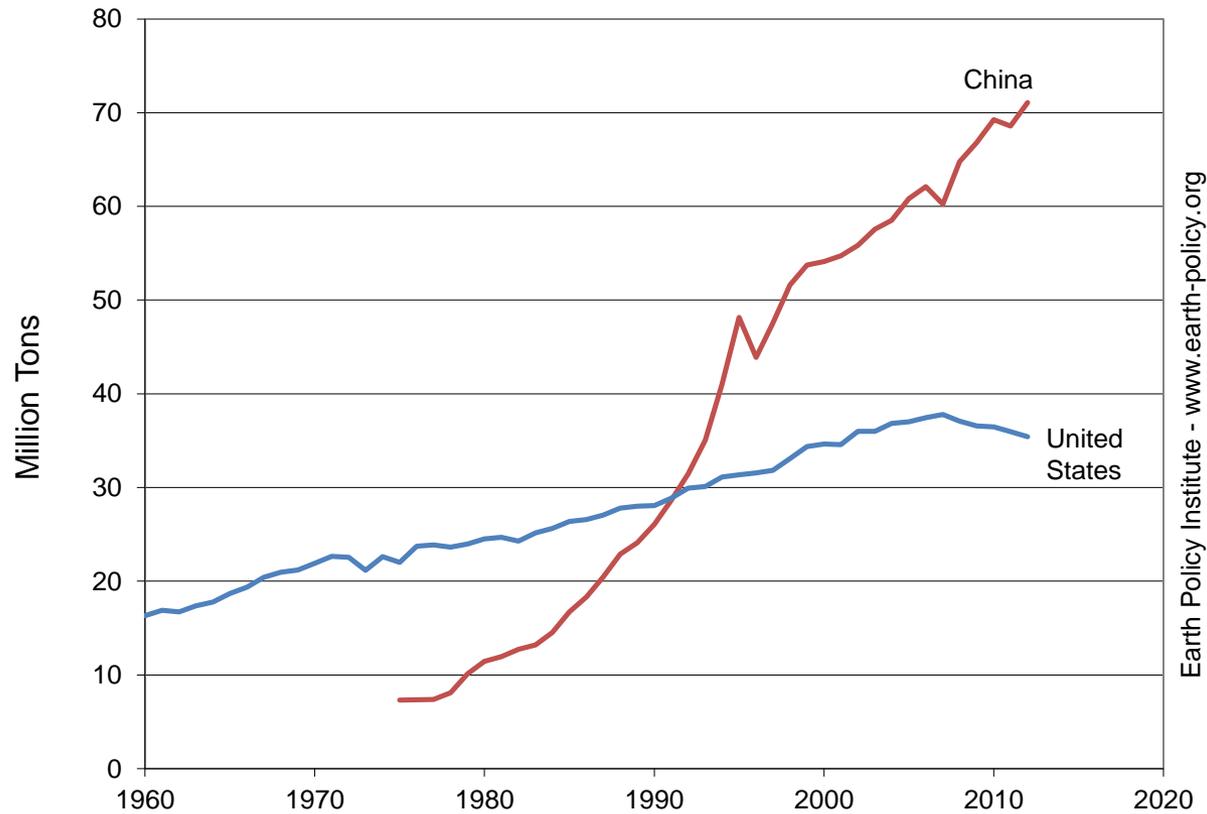


Source: FAO

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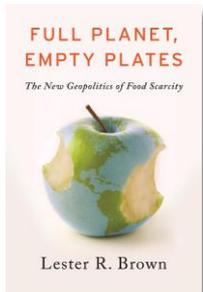


Meat Consumption in China and the United States, 1960-2012

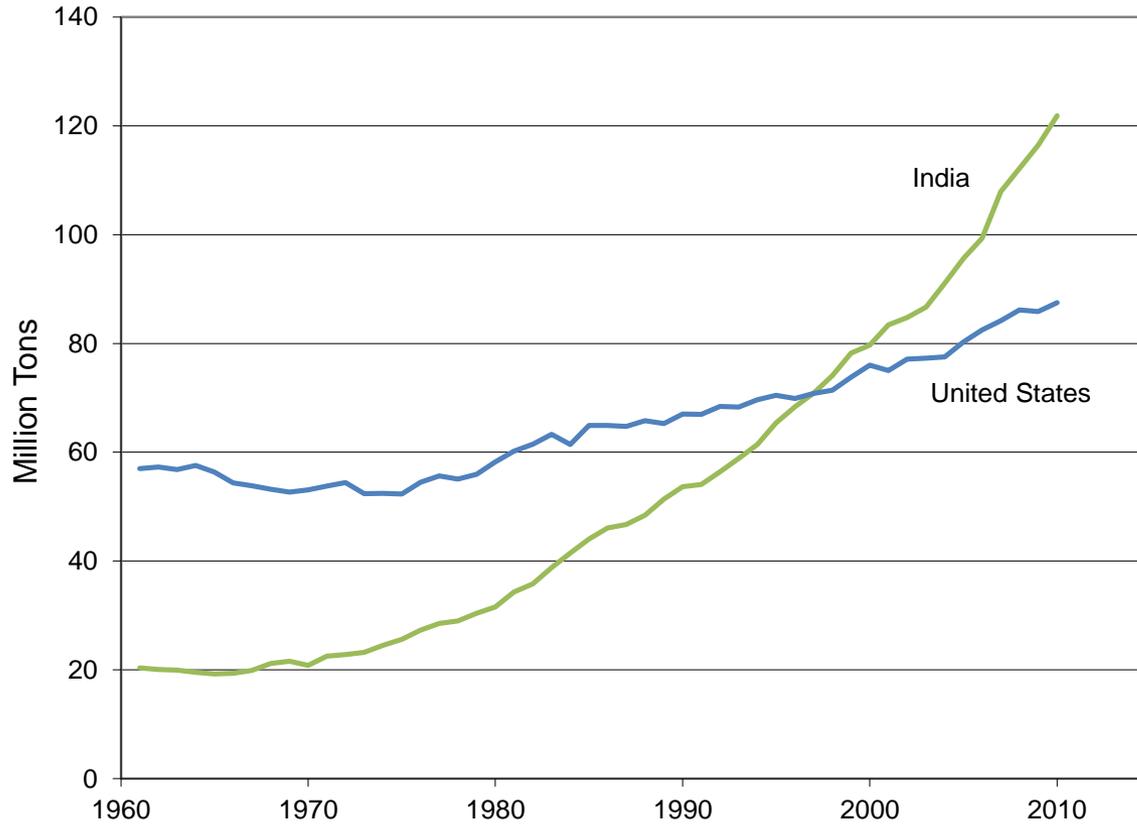


Source: USDA

Earth Policy Institute - www.earth-policy.org

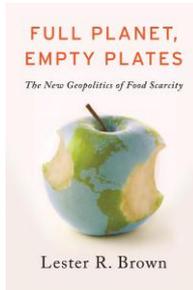


Milk Production in India and the United States, 1961-2010



Source: FAO

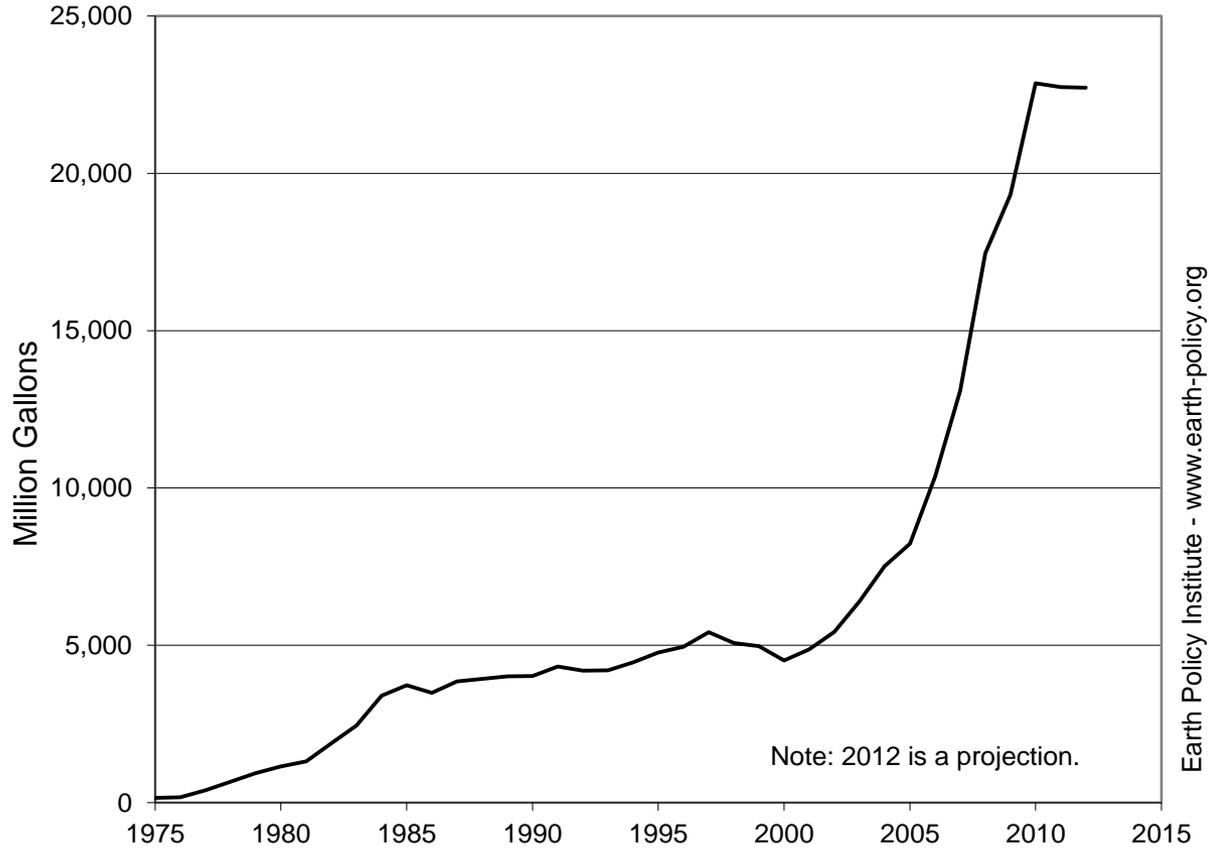
Earth Policy Institute - www.earth-policy.org



A glass beaker containing a yellow liquid, with a test tube inside it filled with orange beads. The beaker is surrounded by scattered orange beads on a white surface. The text "Chapter 4 Food or Fuel?" is overlaid on the beaker.

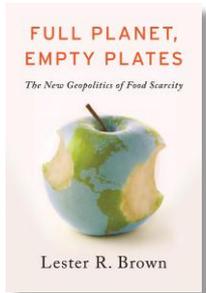
Chapter 4 Food or Fuel?

World Fuel Ethanol Production, 1975-2012

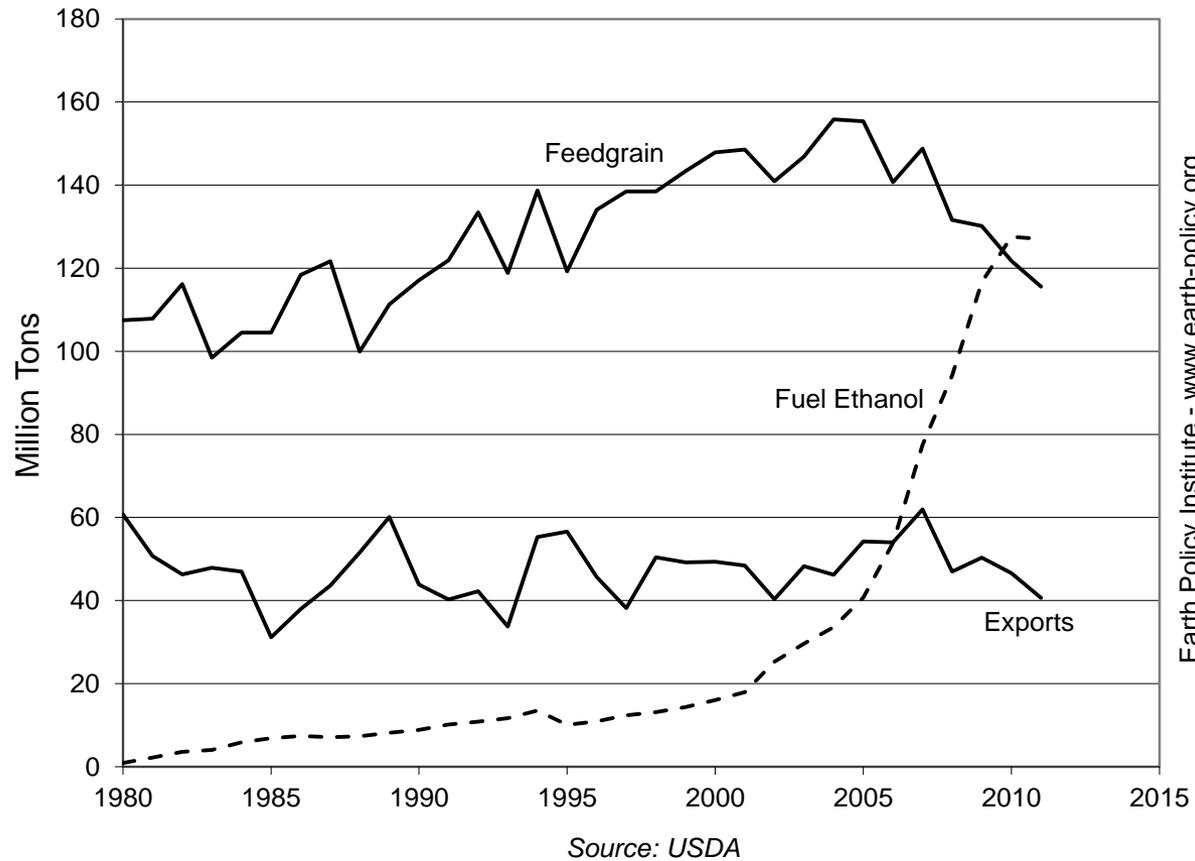


Source: F.O. Licht

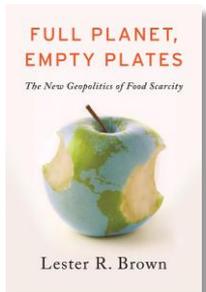
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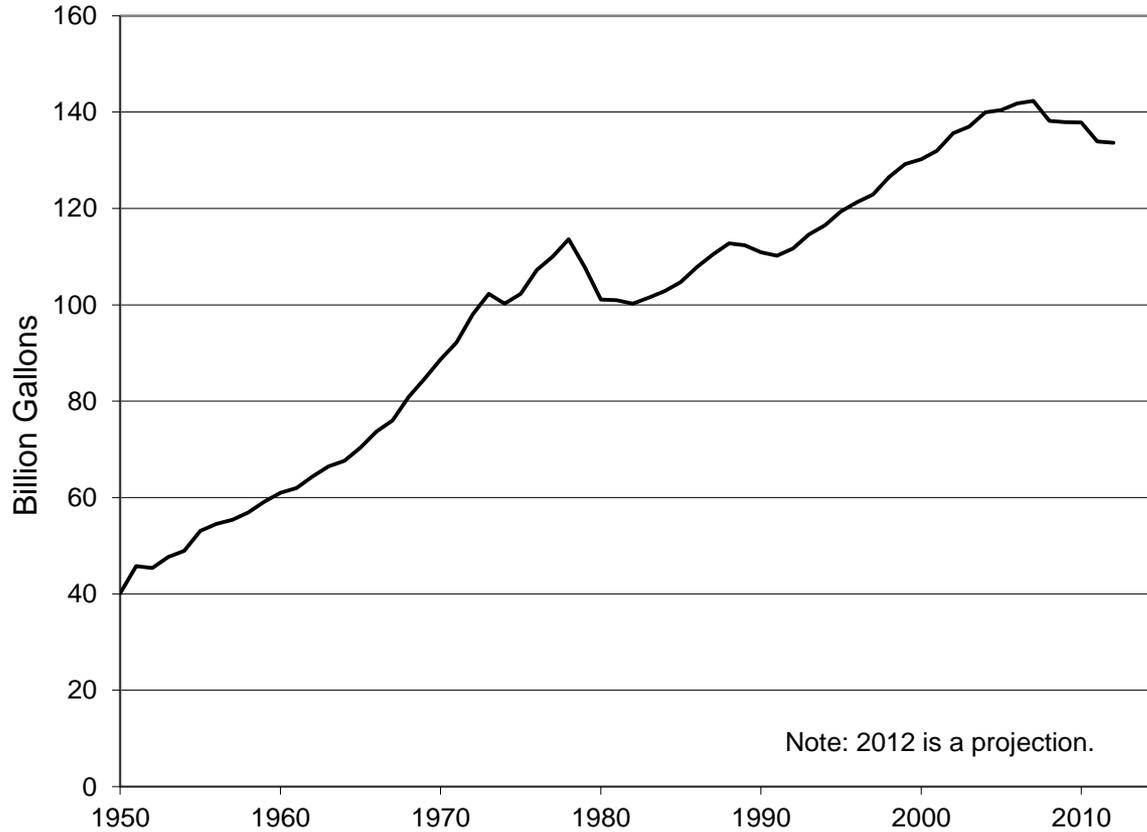
U.S. Corn Use for Feedgrain, Fuel Ethanol, and Exports, 1980-2011



Earth Policy Institute - www.earth-policy.org



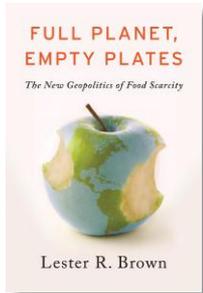
U.S. Motor Gasoline Consumption, 1950-2012



Note: 2012 is a projection.

Source: DOE

Earth Policy Institute - www.earth-policy.org

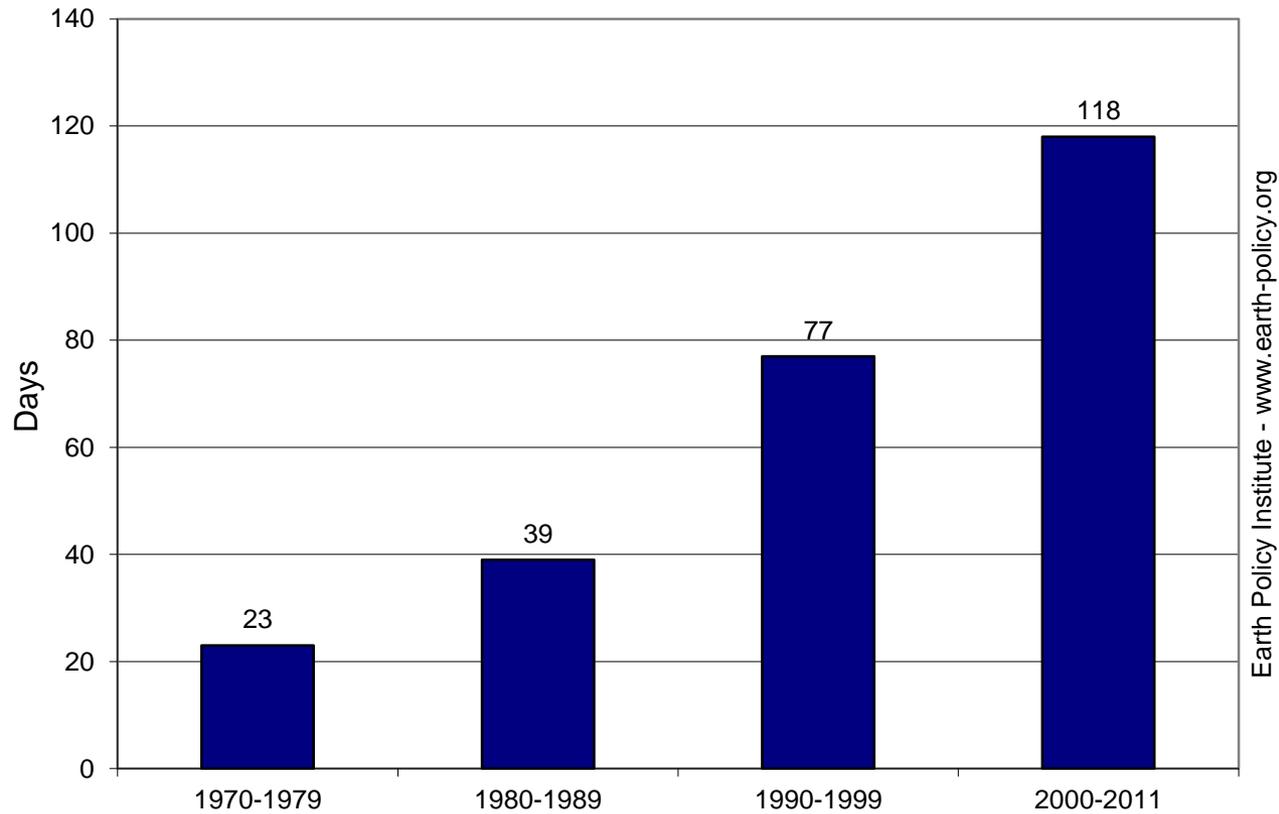


An aerial photograph of a desert landscape. The foreground and middle ground are dominated by rolling sand dunes of a golden-yellow color. In the lower right, a dark, eroded soil area is visible, showing a grid-like pattern of cracks. The background shows a vast, flat desert extending to the horizon under a clear blue sky.

Chapter 5

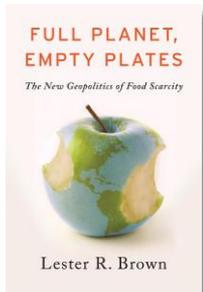
Eroding Soils Darkening Our Future

Dust Events in South Korea, 1970-2011

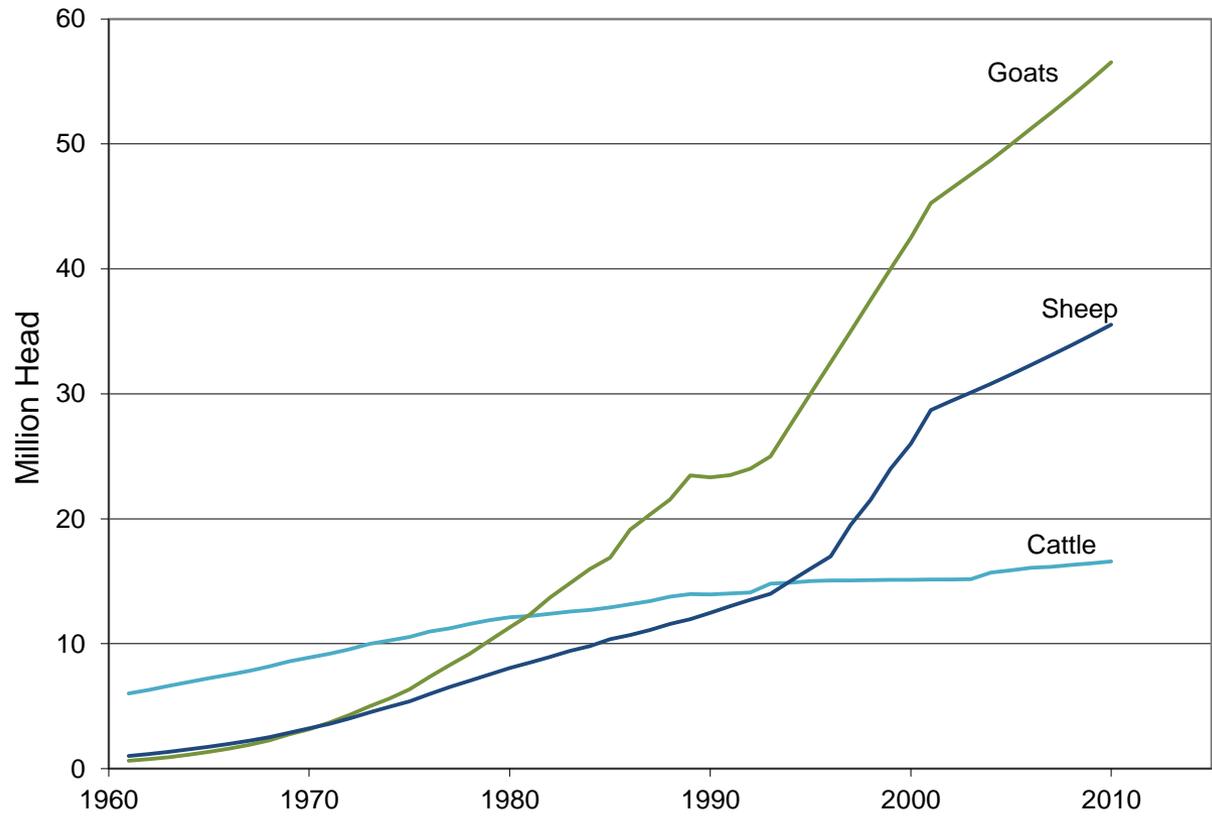


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Source: KMA; KME

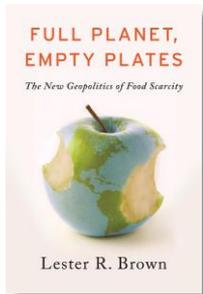


Grazing Livestock in Nigeria, 1961-2010

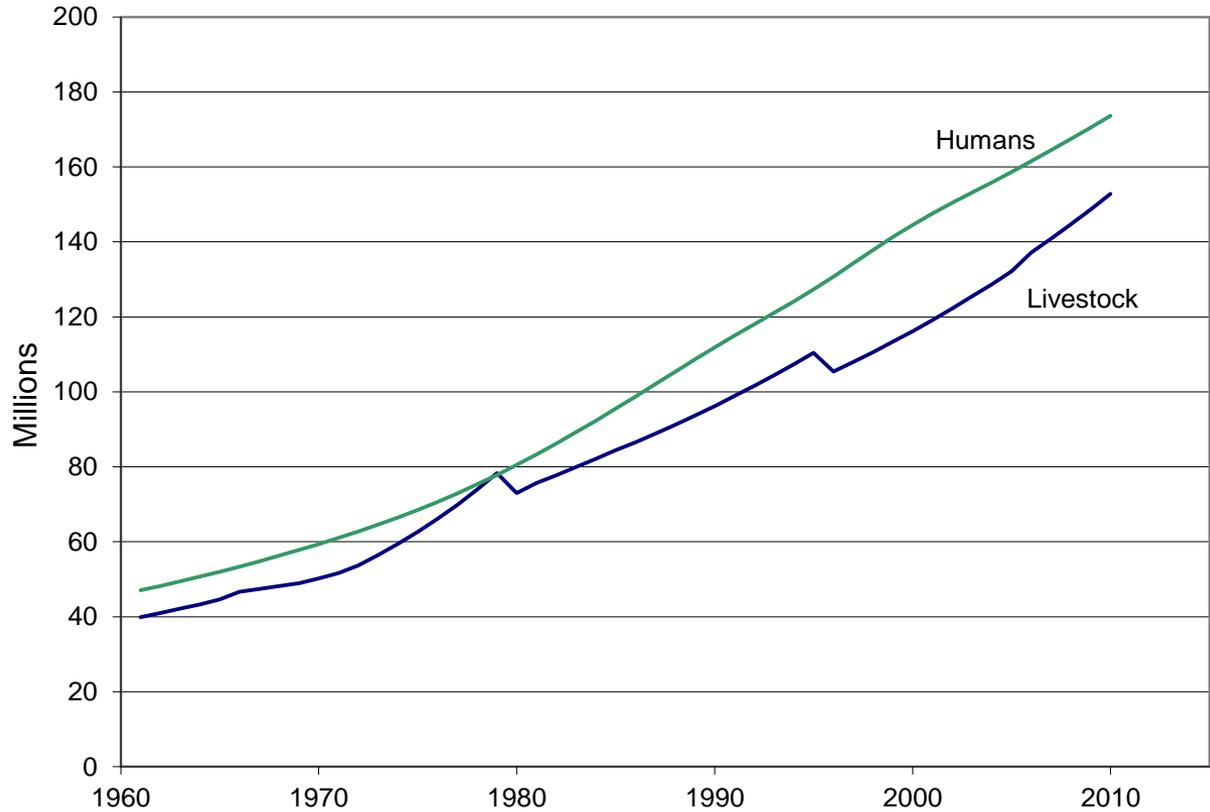


Source: FAO

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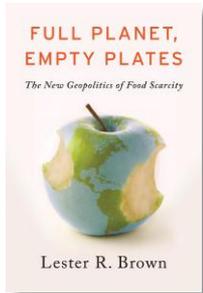


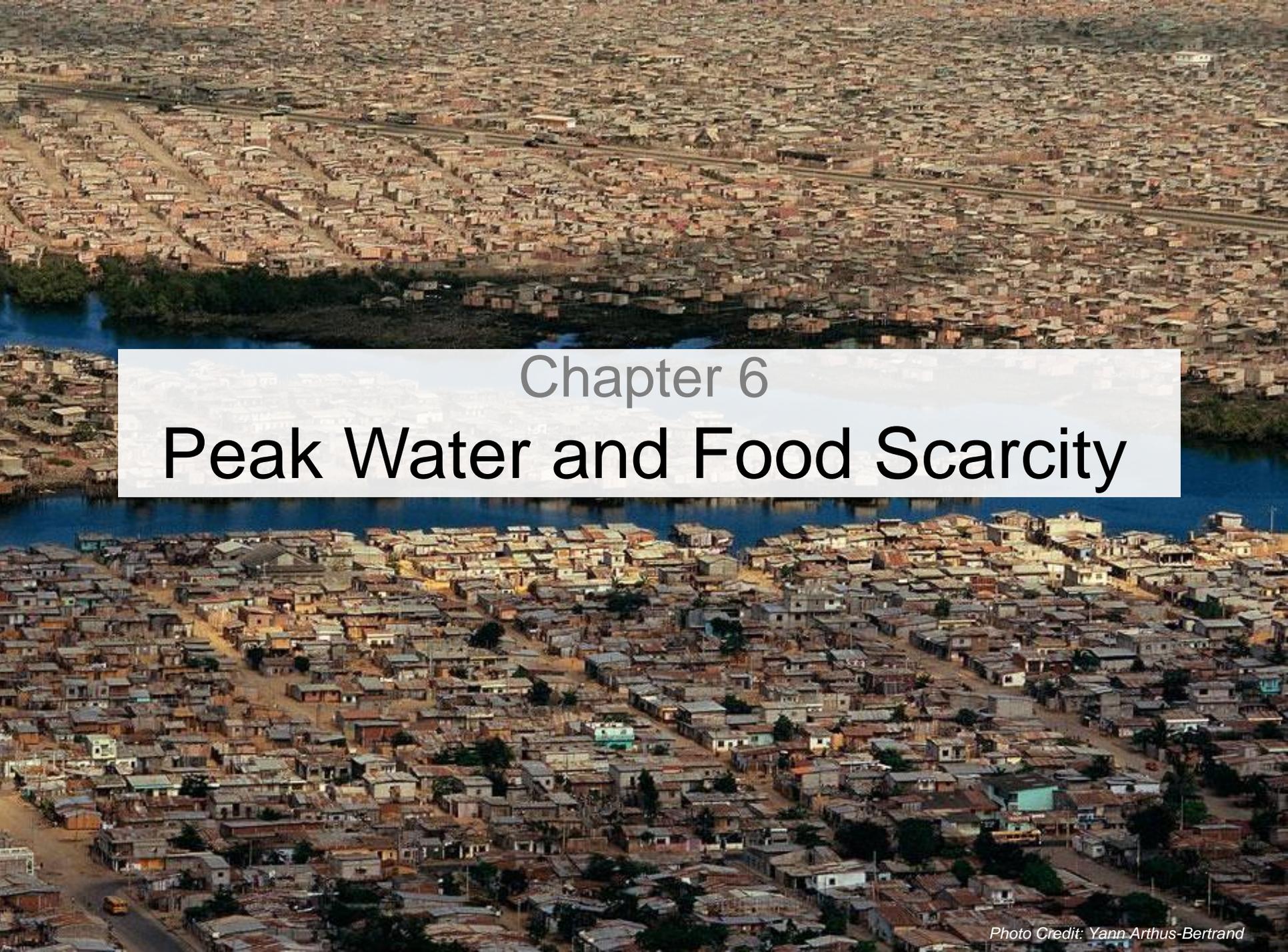
Livestock and Human Populations in Pakistan, 1961-2010



Source: FAO; UNPop

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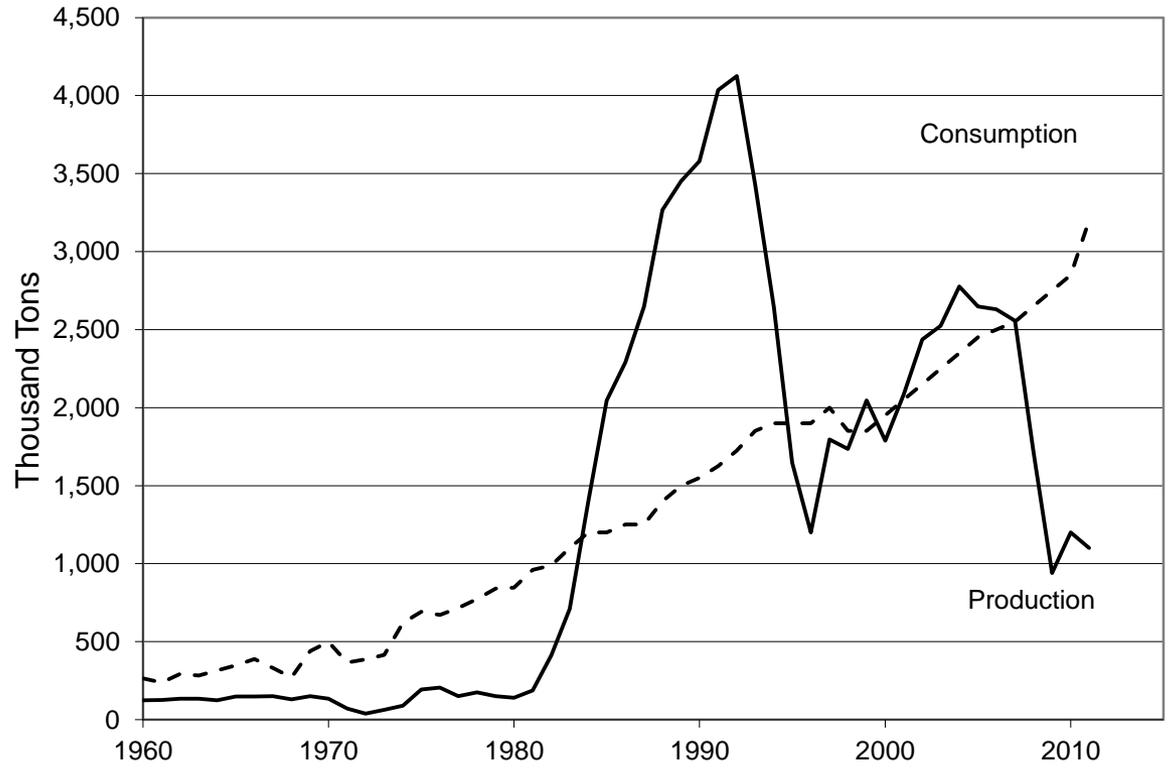


An aerial photograph of a vast, densely packed urban area, likely a slum or informal settlement. The buildings are small and closely packed together, with a mix of colors including earthy tones and some brighter colors. A river or canal flows through the middle of the settlement, and a road or railway line is visible in the upper portion of the image. A white rectangular box is overlaid on the center of the image, containing the chapter title.

Chapter 6

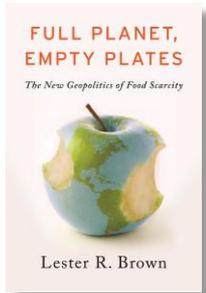
Peak Water and Food Scarcity

Wheat Production and Consumption in Saudi Arabia, 1960-2011

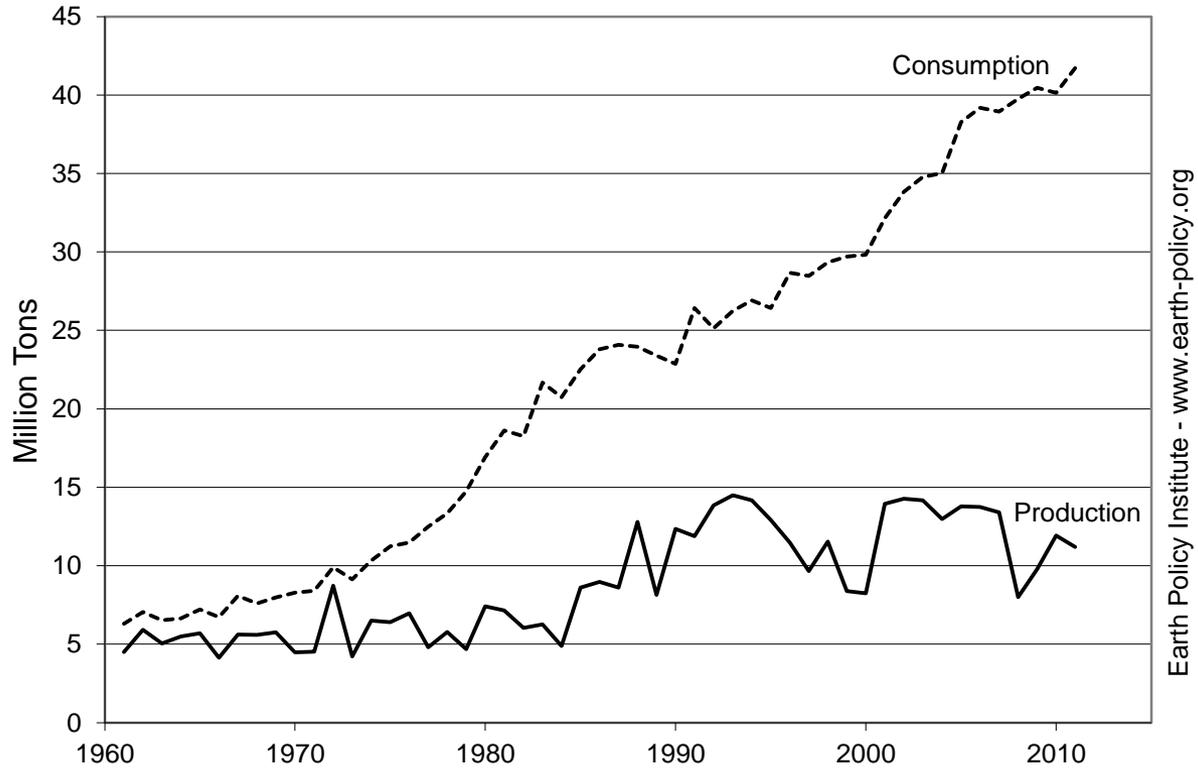


Source: USDA

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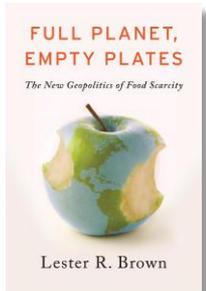


Grain Production and Consumption in the Arab Middle East and Israel, 1961-2011

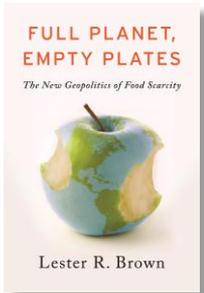
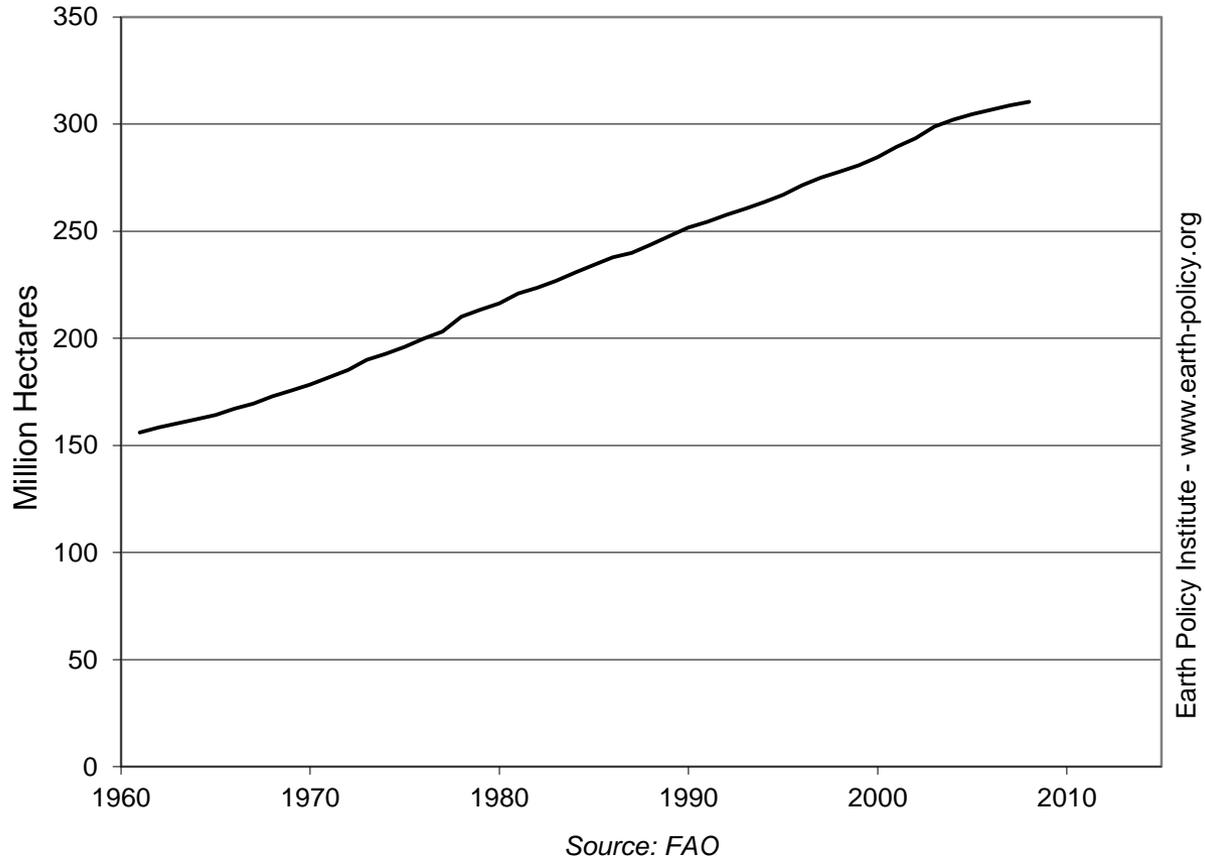


Source: EPI from USDA

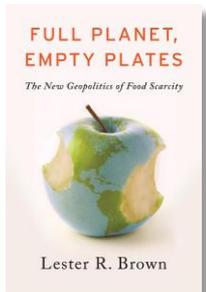
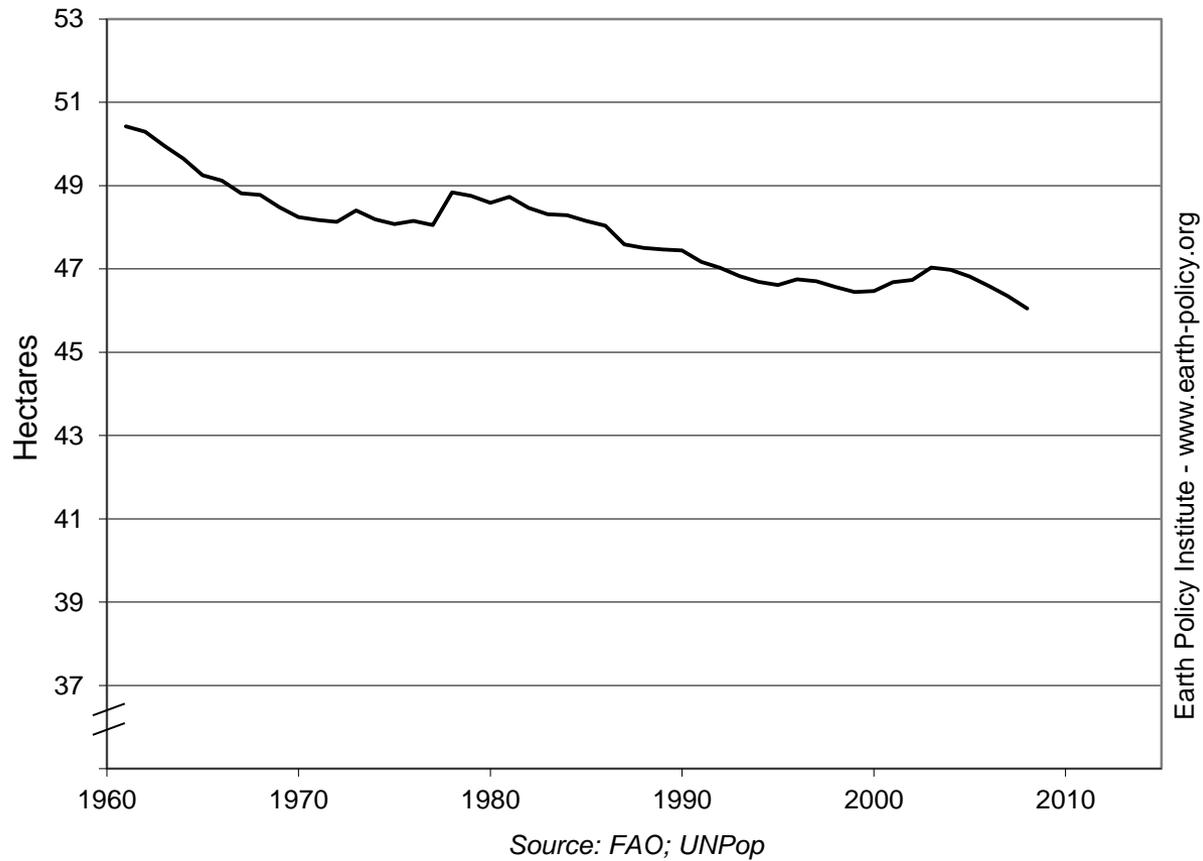
Earth Policy Institute - www.earth-policy.org

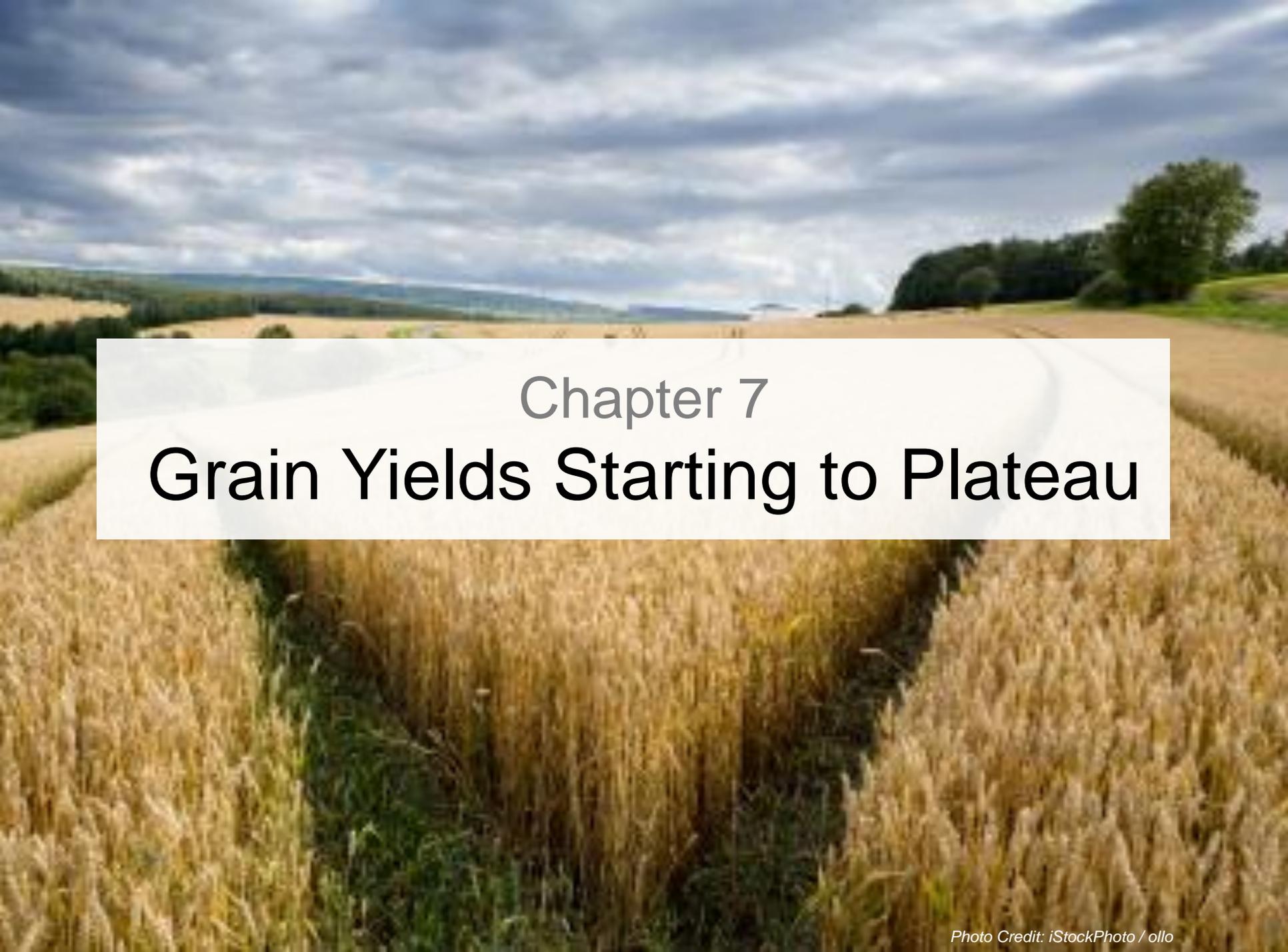


World Irrigated Area, 1961-2009



World Irrigated Area Per Thousand People, 1961-2009

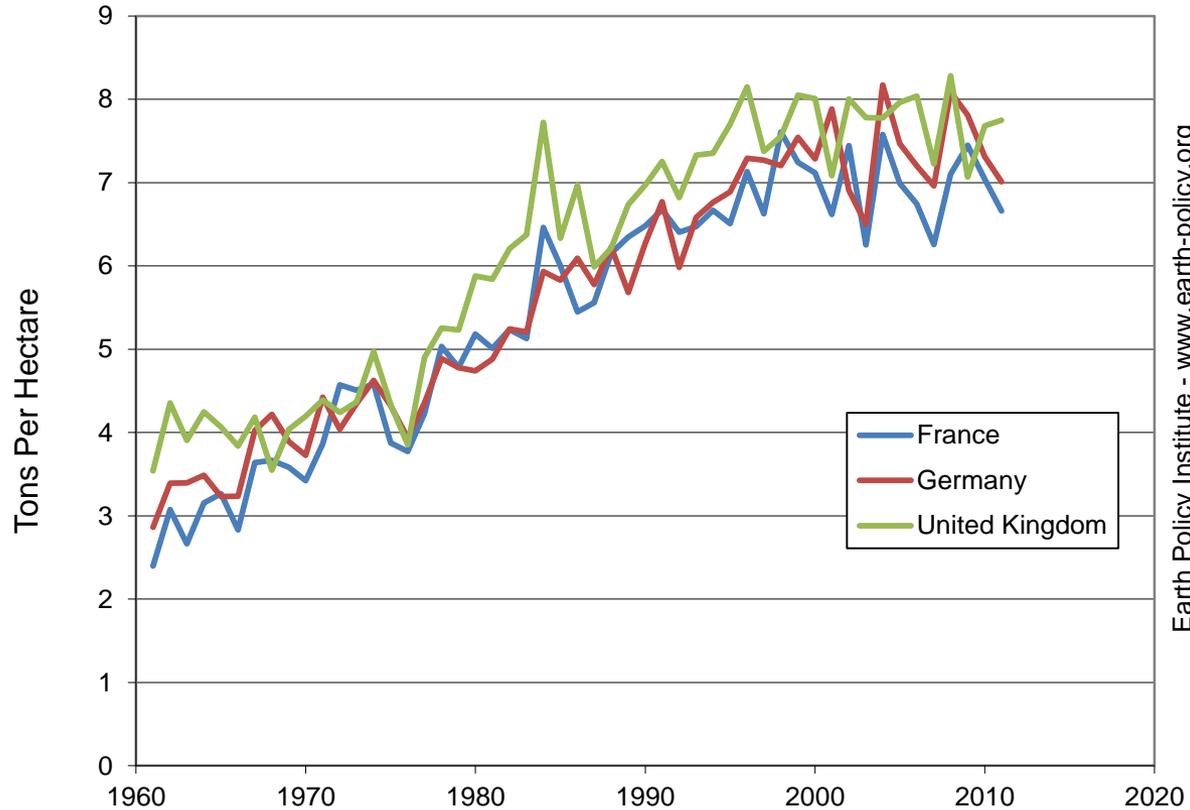


A landscape photograph showing a vast field of golden grain, likely wheat or corn, stretching towards the horizon. The sky is filled with heavy, grey clouds, suggesting an overcast day. In the distance, there are rolling hills and a few trees. A white text box is overlaid in the center of the image, containing the chapter title.

Chapter 7

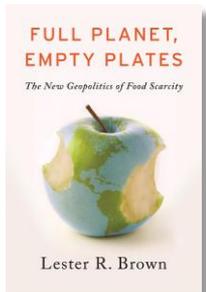
Grain Yields Starting to Plateau

Wheat Yields in France, Germany, and the United Kingdom, 1961-2011

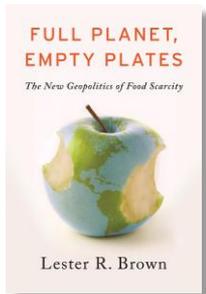
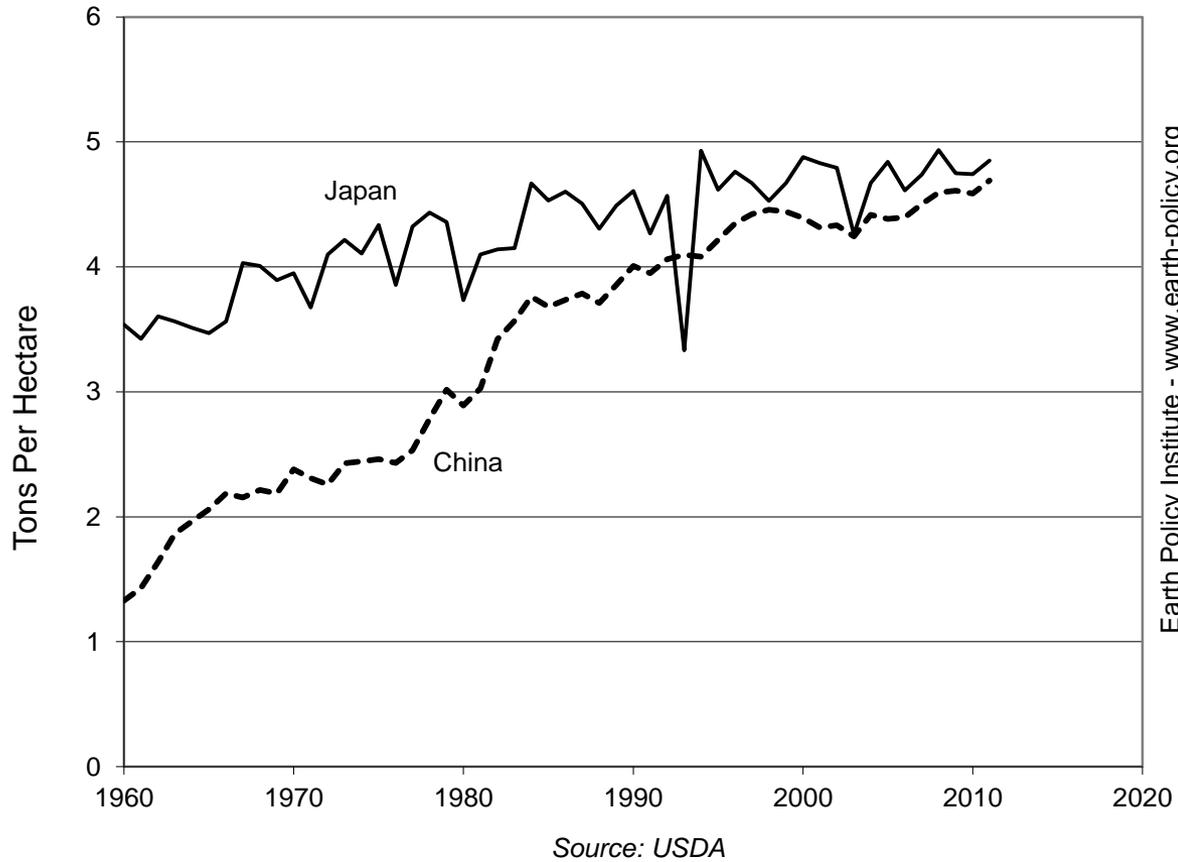


Source: FAO, USDA

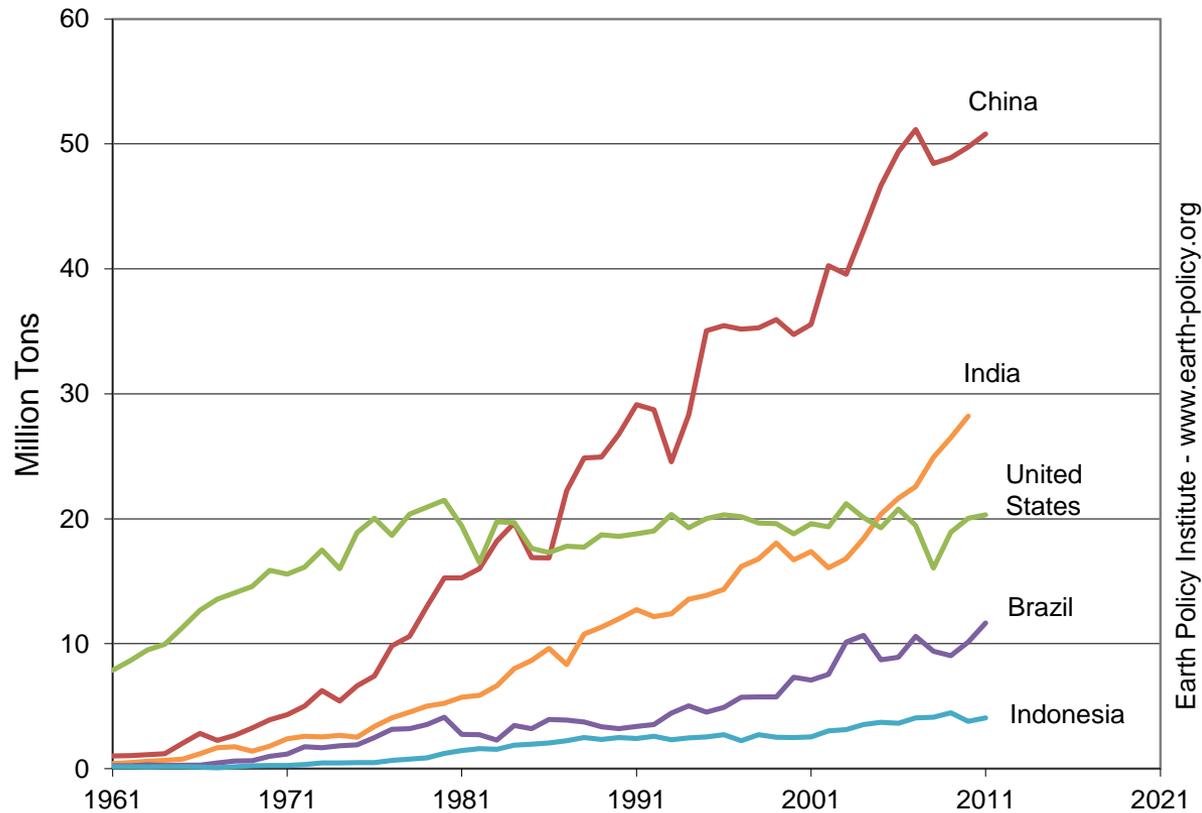
Earth Policy Institute - www.earth-policy.org



Rice Yields in China and Japan, 1960-2011

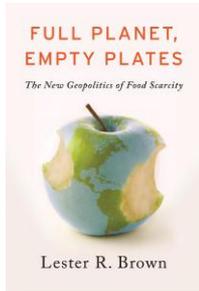


Fertilizer Consumption in Top Five Countries, 1961-2011



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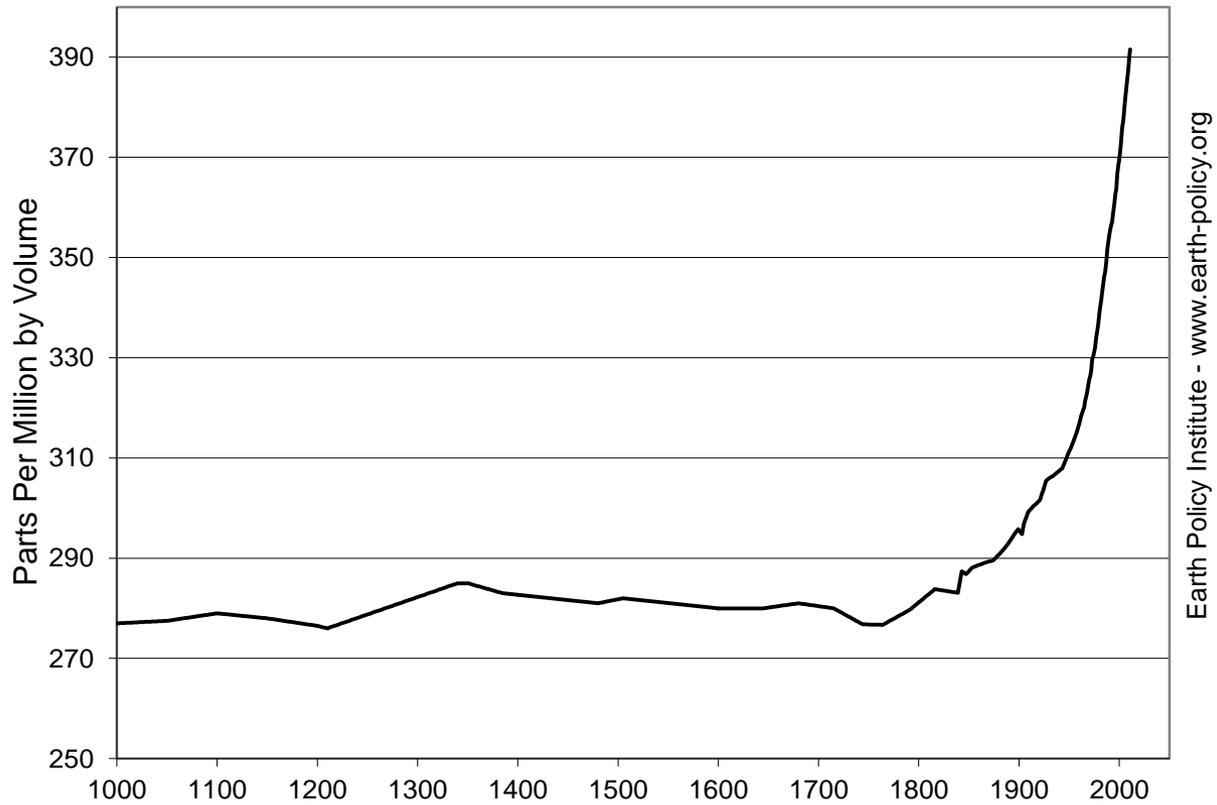
Source: IFA



Chapter 8

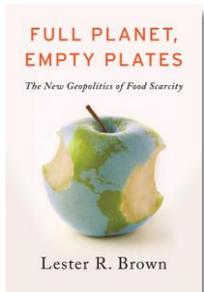
Rising Temperatures, Rising Food Prices

Atmospheric Carbon Dioxide Concentration, 1000-2011

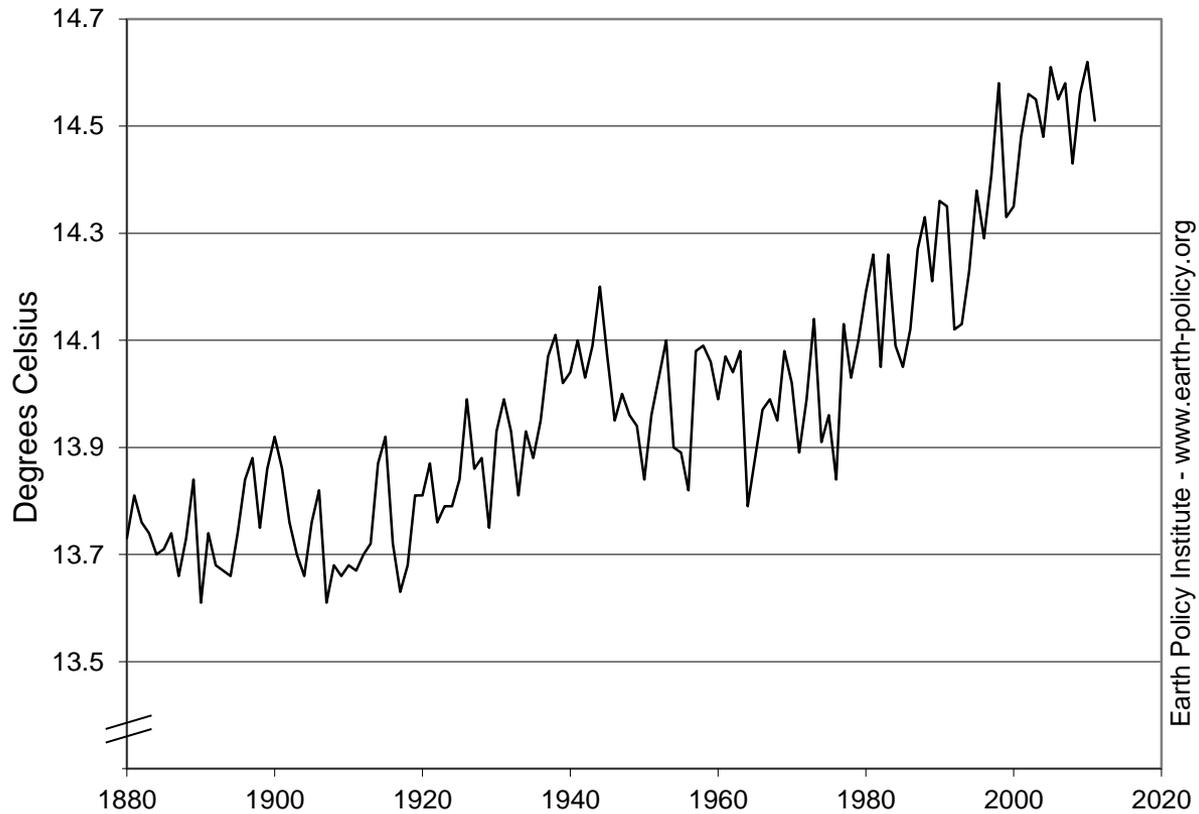


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Source: EPI from Worldwatch; NOAA/ESRL

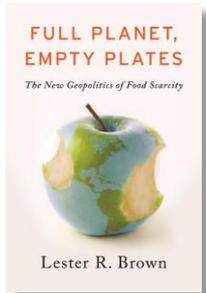


Average Global Temperature, 1880-2011

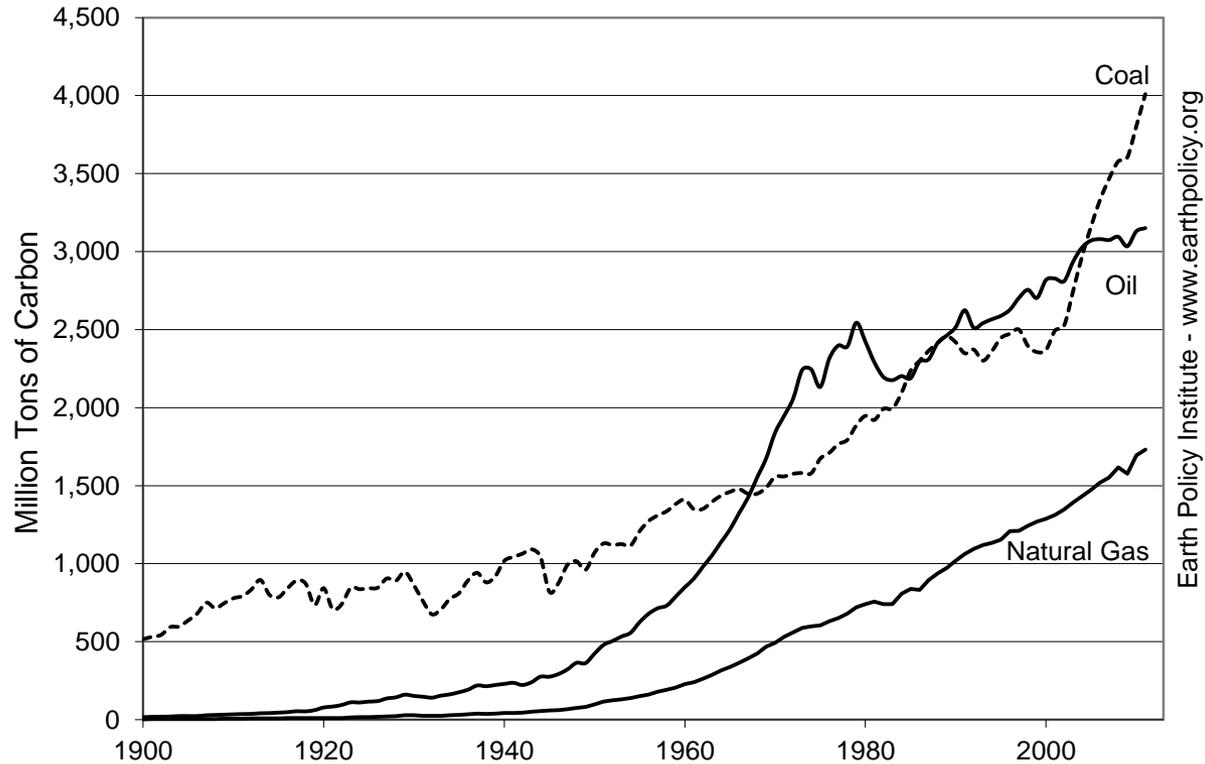


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Source: NASA GISS

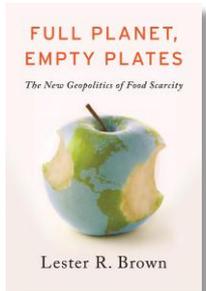


Global Carbon Dioxide Emissions from Fossil Fuel Burning by Fuel Type, 1900-2011



Source: EPI from CDIAC; BP

Earth Policy Institute - www.earthpolicy.org

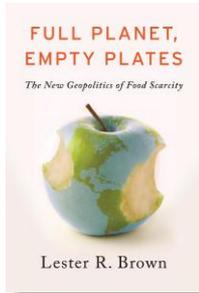
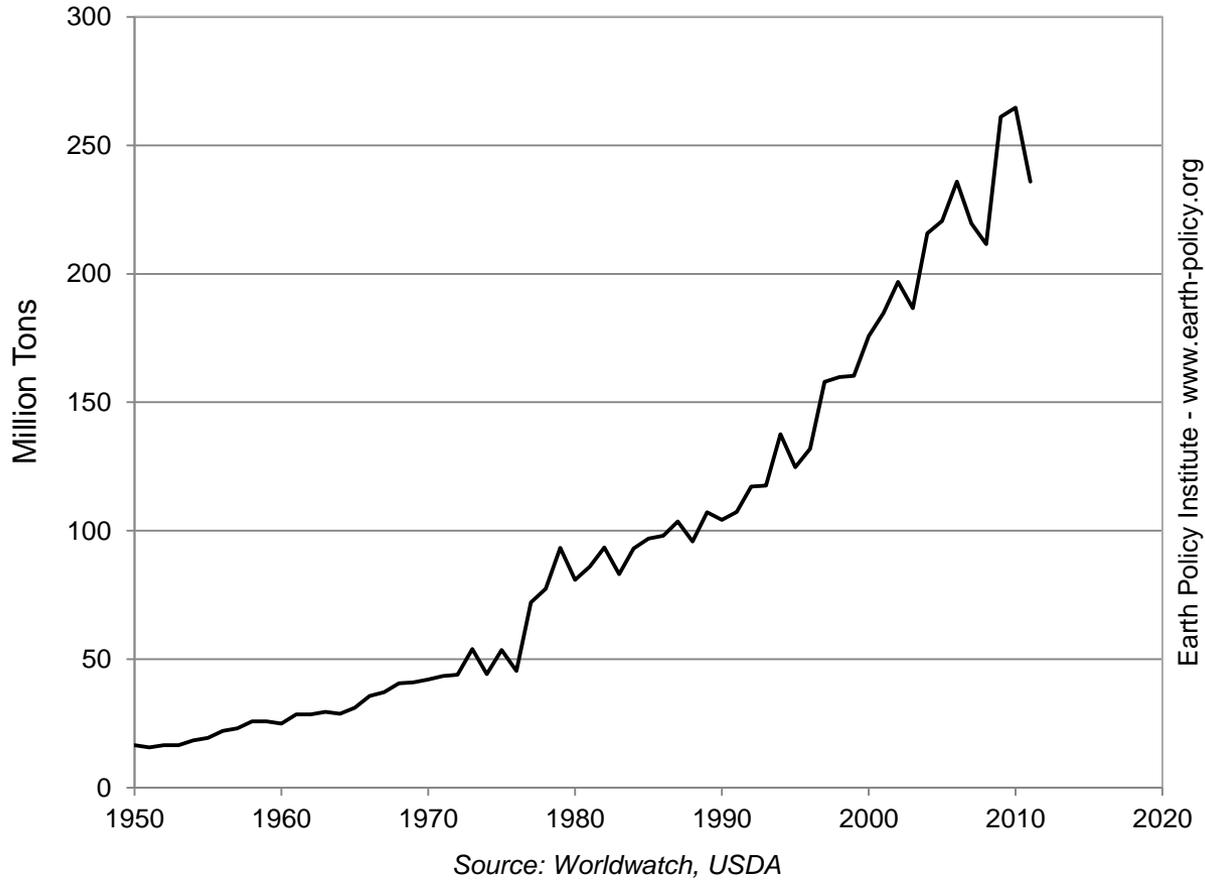


An aerial photograph of the Great Wall of China, showing the wall winding through a series of rugged, mountainous peaks. The scene is captured during the golden hour of sunset, with warm, low-angle light illuminating the landscape. The wall's structure, including a prominent watchtower, is clearly visible in the foreground. The background shows a vast expanse of rolling hills and mountains under a clear, light sky.

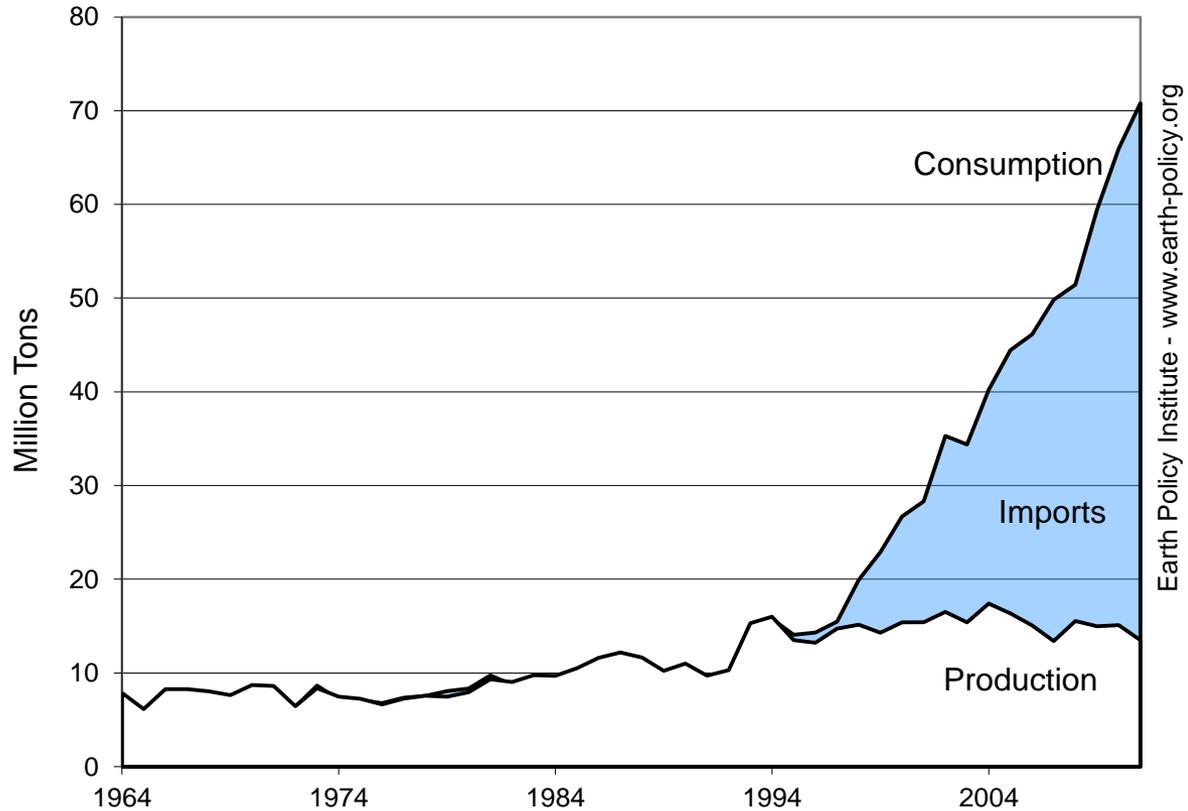
Chapter 9

China and the Soybean Challenge

World Soybean Production, 1950-2011

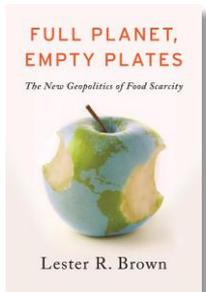


Soybean Production, Consumption, and Imports in China, 1964-2011

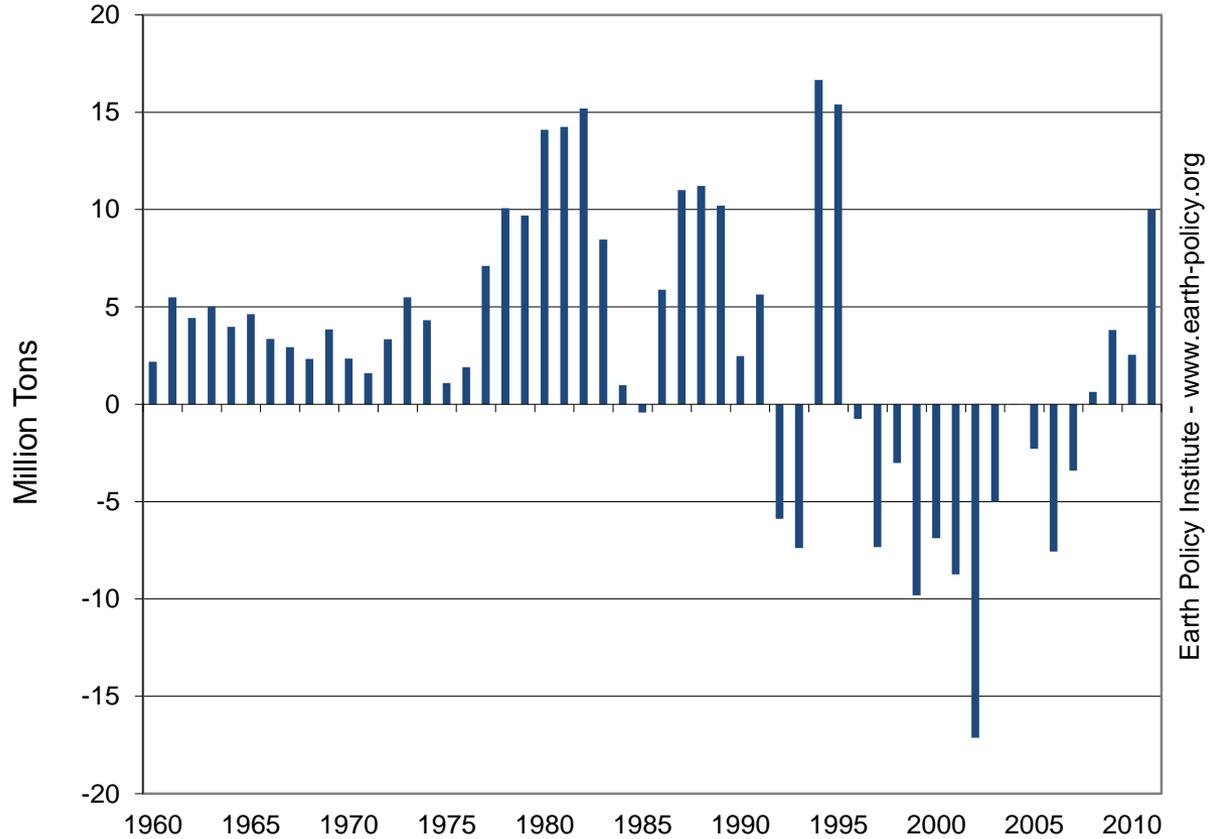


Source: USDA

Earth Policy Institute - www.earth-policy.org

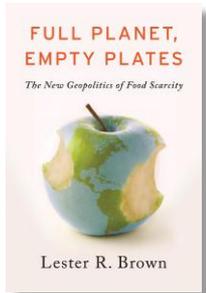


Net Imports of Grain in China, 1960-2011

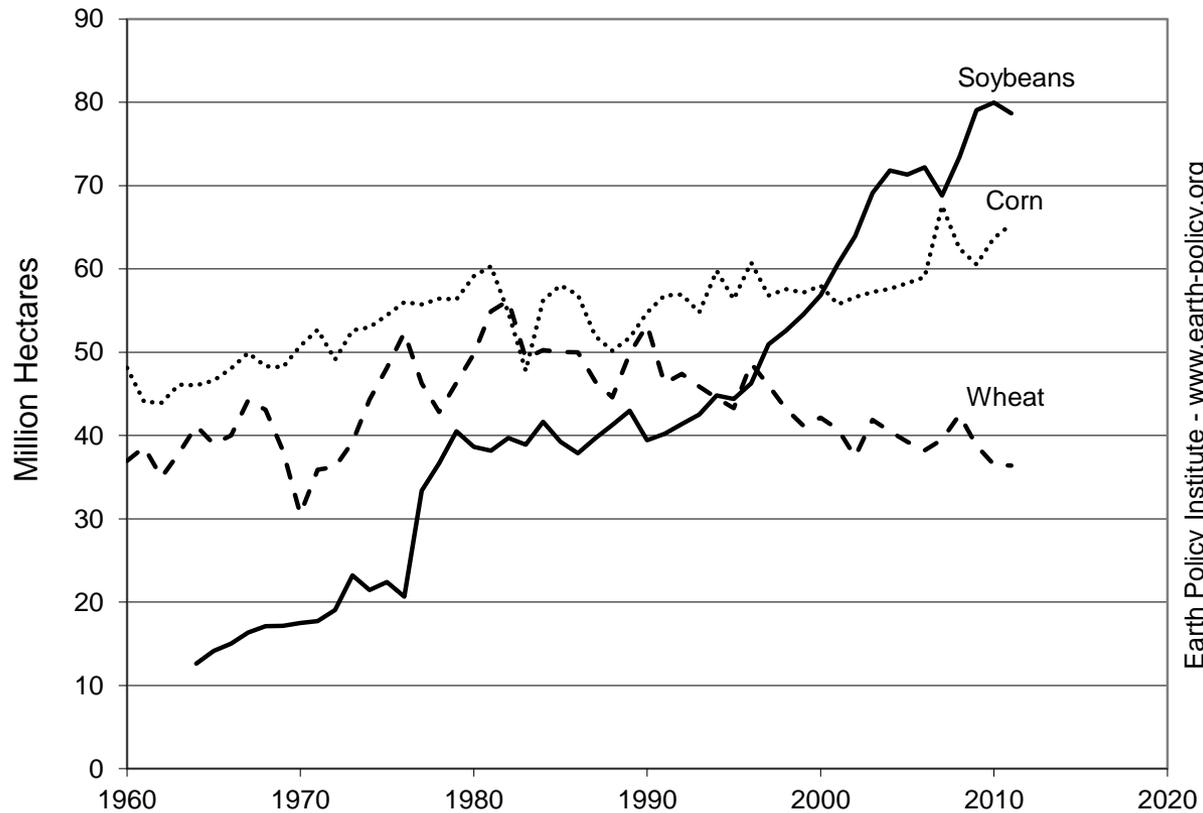


Source: EPI from USDA

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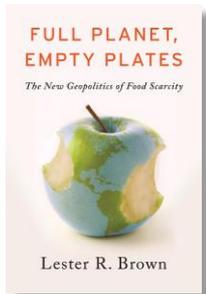


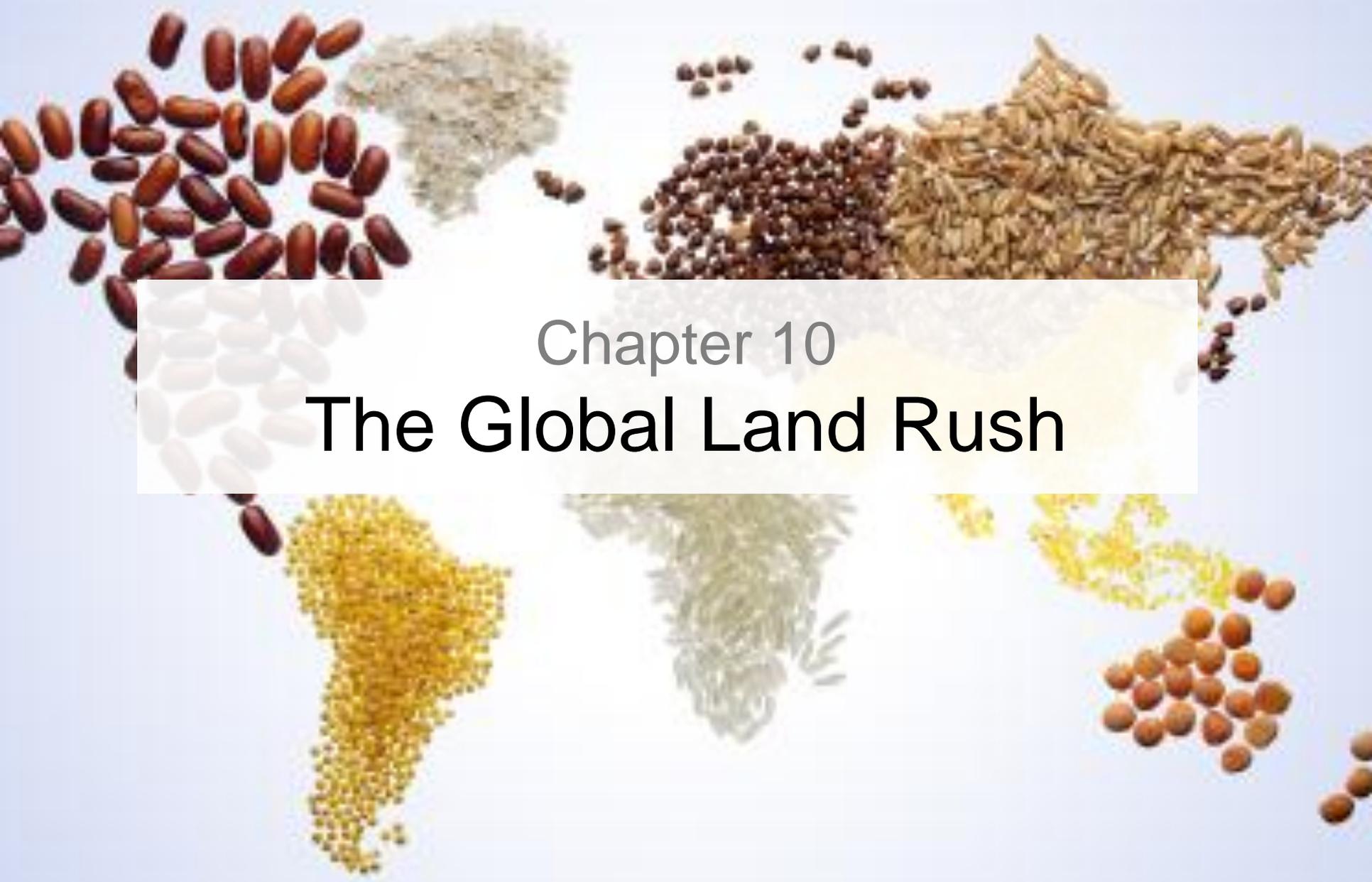
Area Harvested for Wheat, Corn, and Soybeans in the Western Hemisphere, 1960-2011



Source: USDA

Earth Policy Institute - www.earth-policy.org

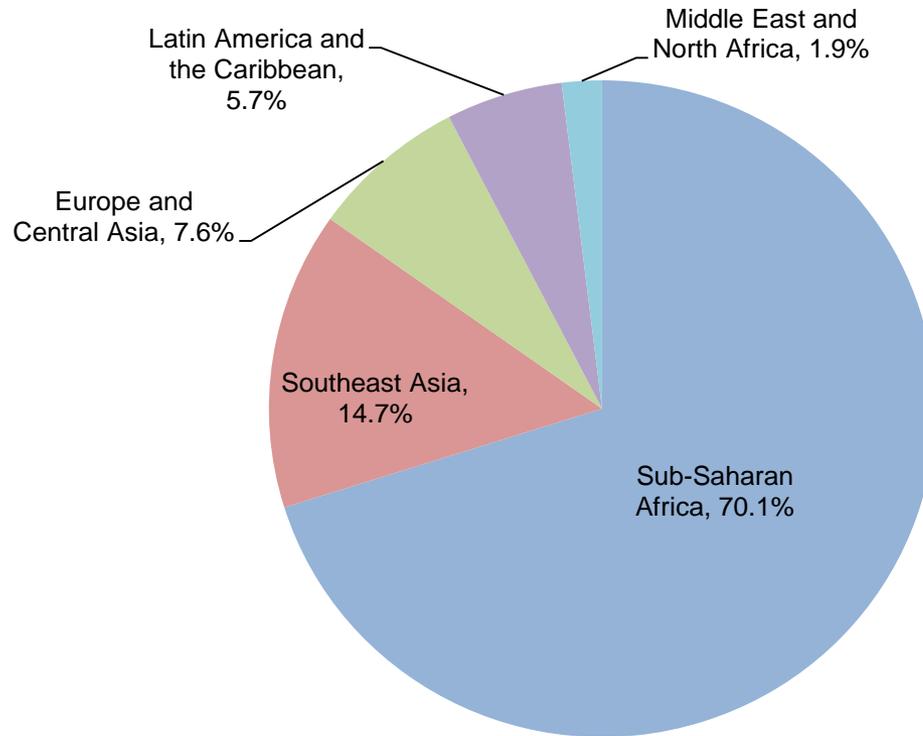




Chapter 10

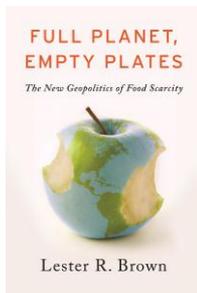
The Global Land Rush

Large-scale Land Acquisition Area by Target Region, October 2008 – August 2009

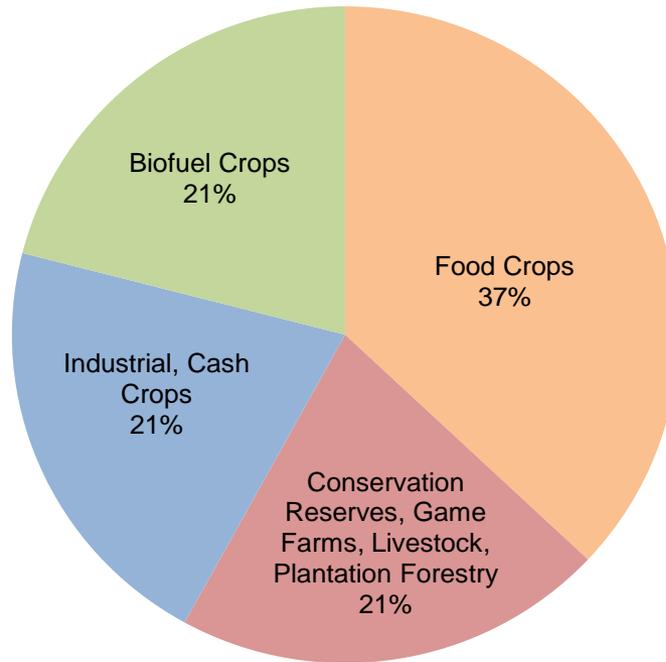


Total Area: 56.6 million hectares in 203 projects

Source: *GRAIN* data compiled by Deininger and Byerlee (2011)

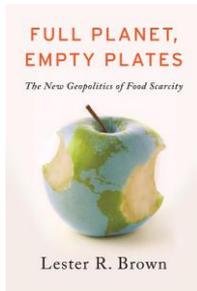


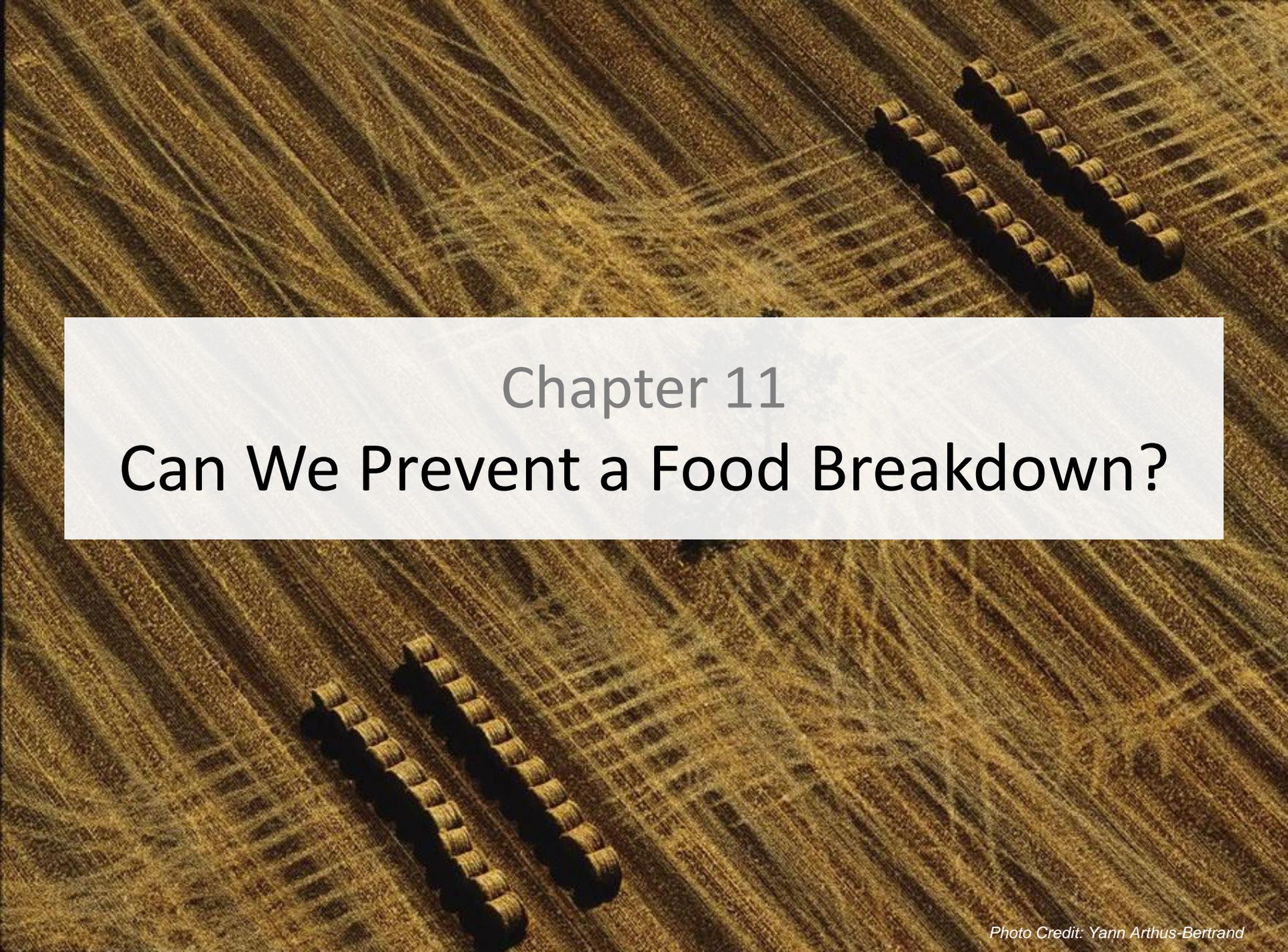
Large-scale Land Acquisitions by Project Type, October 2008 – August 2009



Total Projects: 405

Source: GRAIN data compiled by Deininger and Byerlee (2011)

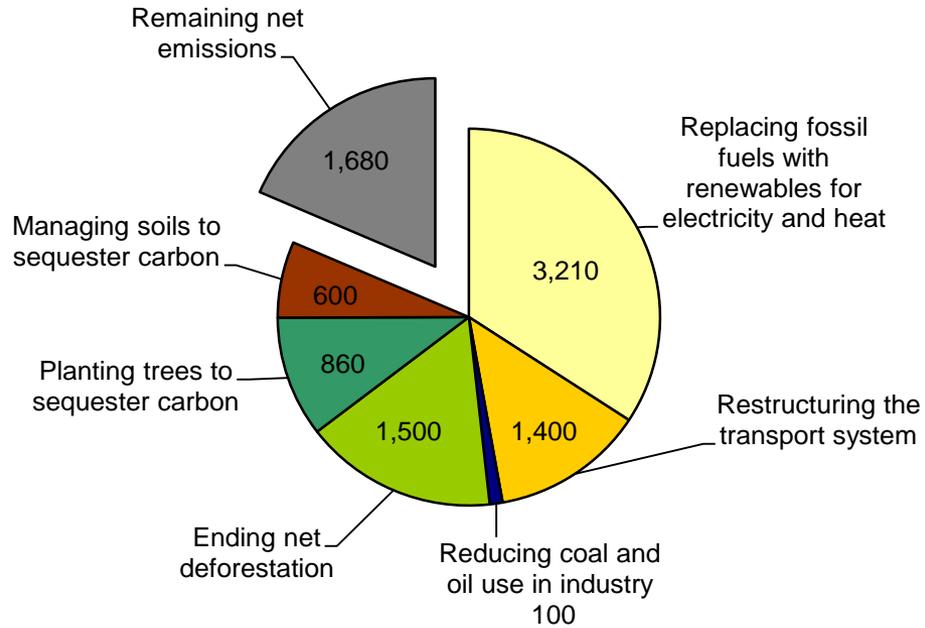


An aerial photograph of a vast, golden wheat field. The field is divided into numerous rectangular plots by thin, dark lines, likely furrows or paths. In the upper right and lower left quadrants, there are rows of large, cylindrical hay bales, stacked neatly. The overall scene is bathed in warm, golden light, suggesting a late afternoon or early morning setting.

Chapter 11

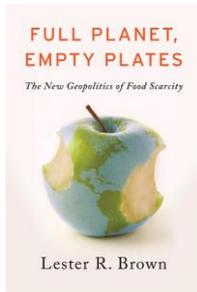
Can We Prevent a Food Breakdown?

Plan B Carbon Dioxide Emissions Reduction Goals for 2020 (Million Tons of Carbon)



Baseline Emissions (2006) = 9,350 Million Tons of Carbon

Source: EPI



To learn more about the global food situation...

FULL PLANET, EMPTY PLATES

The New Geopolitics of Food Scarcity



Lester R. Brown

read *Full Planet, Empty Plates: The New Geopolitics of Food Scarcity* by

Lester R. Brown. The book and supporting data sets are available at

www.earth-policy.org


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