

"Knowledge for Life"

13. World Supply and Demand for Food: An Historical Perspective and Future Prospects

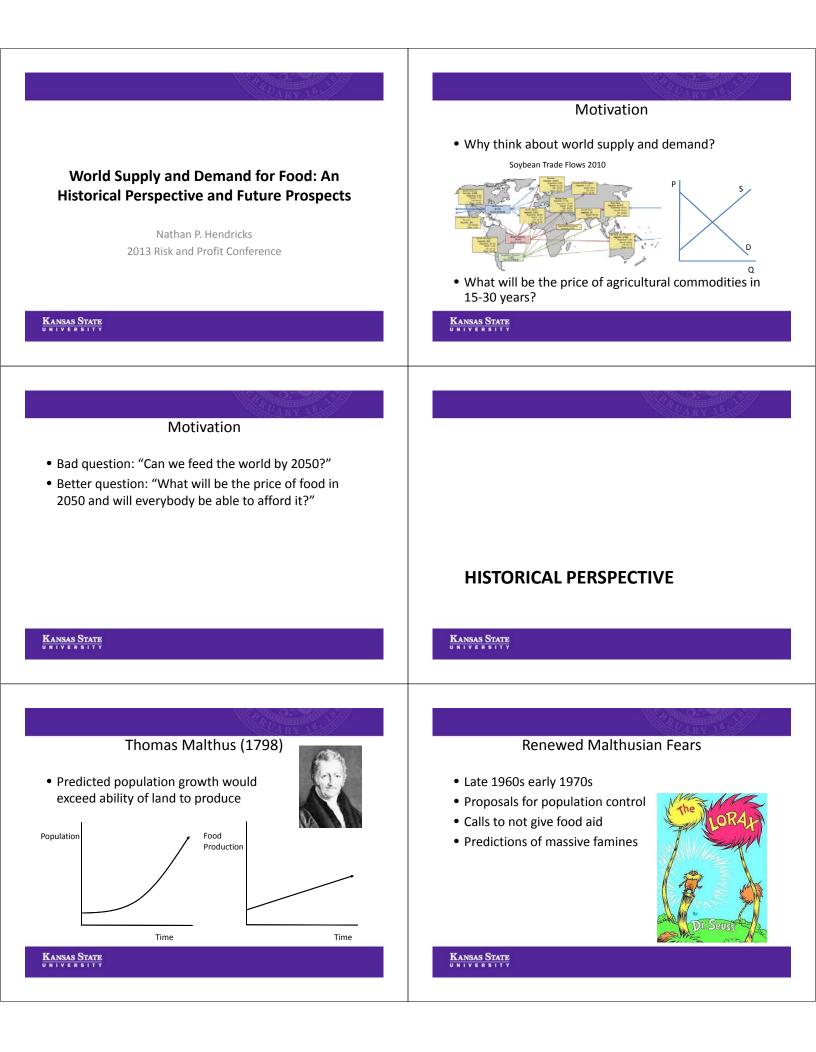
Nathan Hendricks

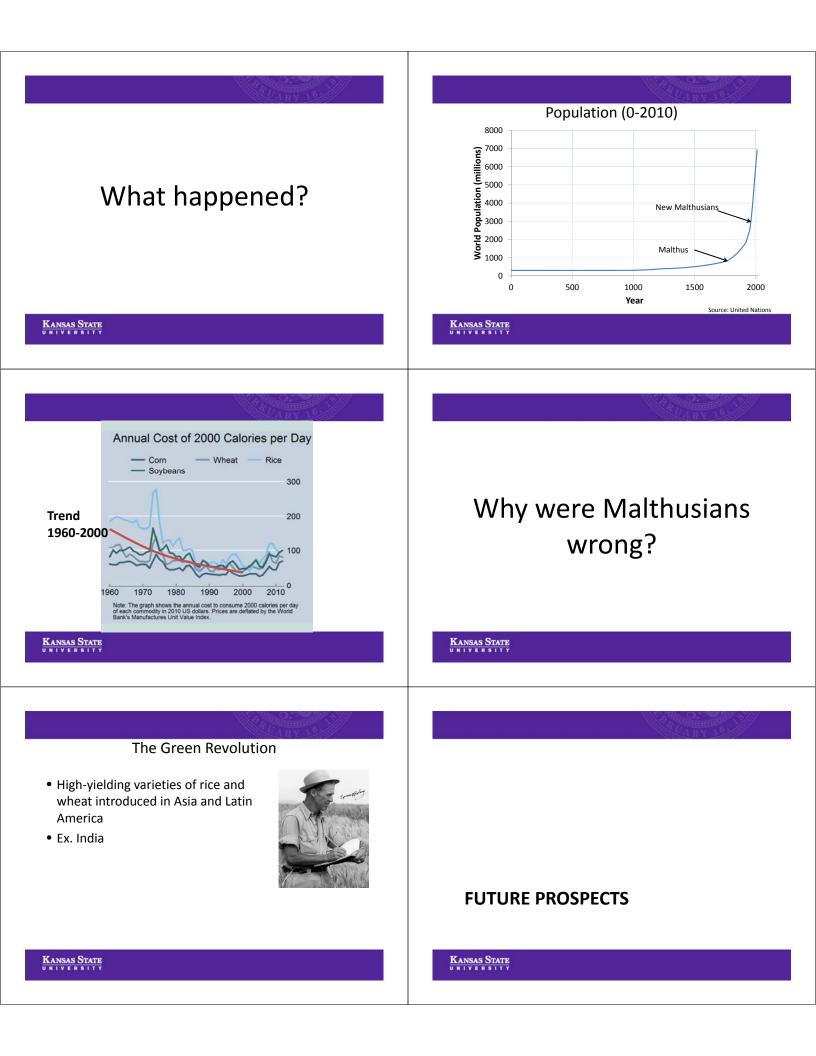
Nathan Hendricks is an Assistant Professor in Agricultural Economics at Kansas State University. He holds B.S. and M.S. from KSU and a Ph.D. from University of California, Davis. His research analyzes agricultural supply response and the effect of agricultural and environmental policies. His previous research has investigated agricultural supply dynamics, the cost-effectiveness of alternative water conservation policies, and the production effects of agricultural domestic support programs. He teaches an undergraduate course on international and environmental issues in agriculture, a graduate course on agricultural policy, and a graduate teamtaught course in quantitative methods.

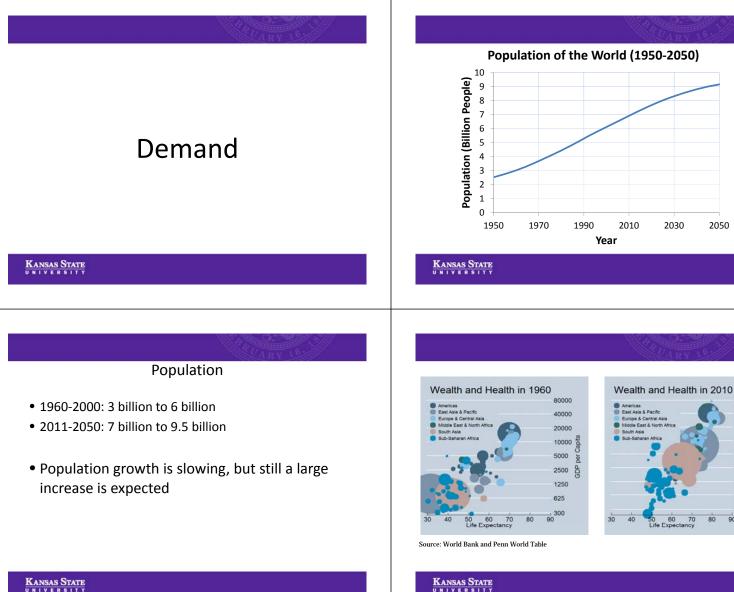
Abstract/Summary

Global agricultural productivity growth is slowing while the world population is likely to increase from 7 billion to 9 billion by 2050. Meanwhile, meat demand will continue increasing due to rapid economic growth in China and India. In this session, we will examine some of these major trends in world supply and demand for food. We will also place these future prospects in perspective by looking at world supply and demand from 1960-2000, a period where world population doubled from 3 billion to 6 billion and yet supply actually increased faster than demand. An understanding of these global trends in agricultural markets is an important perspective for producers and agribusiness leaders as they make long-run decisions.

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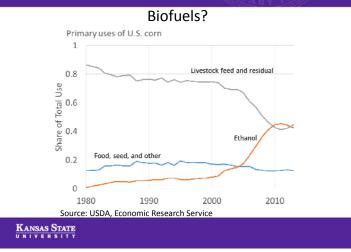




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Incomes

- Incomes are converging
- Asia is increasing meat consumption -> substantial increase in demand for grain



GDP

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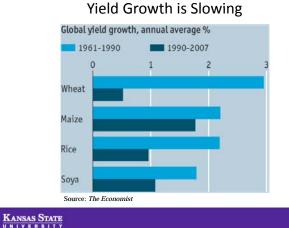
Demand Expected to Increase 70% by 2050

Supply

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Worrying Signs about Productivity

- 1. Growth of yields are slowing
- 2. Growth in R&D expenditures are slowing



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