



Overview

- 1. The Development of Agriculture
- 2. Agri-business TNCs (The "Players")
- 3. The Global Food Chain











- Feudalism & serfdom
- Limited specialization
- High transport costs
- Increases in output



Tragedy of the Commons

- England, beg. Industrial revolution
 - Open access, free of charge
 - Increasing use, rising average cost
 - Overgrazing



Second Agricultural Revolution

- Industrialization
- Two important effects:
 - Rapid growth of demand
 - Purchasing inputs off farm
- Indirectly affected agriculture:
 - Attraction of jobs in town
 - Lowered transportation costs
 - Processing completed in factories



Second Agricultural Revolution

- Decrease in agricultural population
 - Britain 1720s
 - Rest of Europe 1840s
 - Britain < 10% before WWII



Third Agricultural Revolution

- Modernization
 - Traced back to first use of steam power
 - 1820s Patrick Bell
 - 19th century, age of steam revolutionizing factory production
 - Different commercial needs between Europe & NA



Third Agricultural Revolution

- · Growth of Markets:
 - Subsistence Farming:
 - Argument for rapid agricultural growth
 - Commercial farmer is a business man
 - Modern farming is a matter of accountancy
 - · Modernization & increases in output
 - · Economic Behaviour



- · Growth of Markets:
 - Commercialization:
 - · Individuals earning more, consuming more
 - Transport & Agricultural Change

 - Much of change of last 200 years dependent upon reduction in transportation
 - · Also cheapened inputs to farm



- Consequences of declining agricultural population:
 - Underemployment
 - Commercialization:
 - · Thomas Malthus & theory of poverty



- · Measured sources of economic growth
 - Impact on productivity of countries
 - Ability to converge with developed countries
 - Basic concept:
 - As 'T' (Technology) increases, efficiency & productivity of labour increases
 - · As labour increases, Malthus predicted a push back into poverty



Solow Model

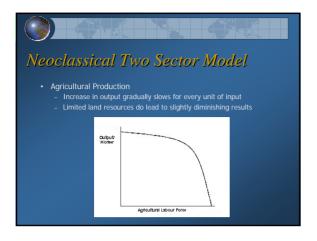
- Graph:

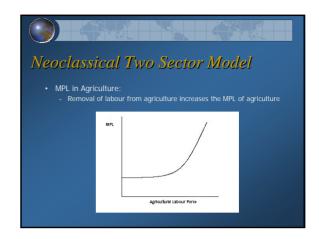


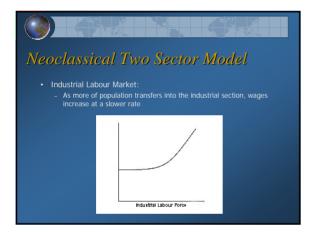
- Determine effect of structural change, 'out-migration' from agriculture:
 - Engel's law: as income increases, proportion of income spent on food
 - Proportion of agriculture in GNP decreases
 - · Holds for all countries that have experienced sustained development



- Assumption: no labour surplus
 - All workers, regardless of underemployment, are somewhat employed
 - Each worker adds to agricultural output















Green Revolution

- Depends on:
 - Seeds, chemical fertilizers, pesticides & herbicides
 - Environmental problems
- · Promising more than it can deliver
- Even where successful, few of hungry have benefited



Green Revolution

- Focuses on food production, does not deal with food demand
 - Does nothing to enable poor to buy food
- Use of appropriate technology in developing countries could make it a success



GMOs

- · World's second Green Revolution
- 77% of world's acreage is committed to GMOs
- Problems:
 - Transgenic Escape
 - By '98, was predicted that half of America's grain industry would be using GM seeds from Monsanto



GMO

- Example:
 - Phillipines
 - Cultivated land expanded, use of fertilizer quintupled
 - New breed of insect
 - Harder to control with insecticides
 - Rice paddies chemically degraded
 - · Deaths from pesticide poisoning
 - Additional costs for farmers in the south





Definition

♣ Agribusiness: Involves the manufacture and distribution of farm supplies; production operations on the farm; the storage, processing, and distribution of farm commodities and items made from them. Generally associated with a corporation.









