CHAPTER 20: COMMERCIALIZATION AND THE TRANSFORMATION OF THE RURAL SECTOR

CHAPTER OUTLINE

- I. Introduction
 - A. Roots of modern commercial agriculture
 - 1. Trace back to European colonial empires established during the eighteenth and nineteenth centuries
 - 2. Europe became a market for agricultural products from around the world
 - 3. Finished products made of imported raw materials were sold back to colonies that had produced the raw materials
 - 4. Effect of the evolution of a worldwide transport network
 - 5. Continued production of cash crops by poorer countries is perpetuated by loan and aid requirements imposed on former colonies
 - B. World agricultural (Figure 20-1)
- II. Global patterns of commercial agriculture
 - A. Introduction
 - B. Cash crops and plantation agriculture
 - 1. In the Caribbean region, whole national economies depend on sugar exports
 - 2. Producing countries are not in a good position to dictate the price of their product
 - 3. Importing countries fix tariffs and quotas
 - 4. Extent of importers' power can be seen in the case of Cuba
 - 5. Collective action is difficult
 - a) Wealthy importing countries can make deals with non-cartel countries
 - b) Withholding of produce in exporting countries may stimulate domestic production among importers
 - c) Example of cane sugar and sugar beets
 - 6. *Plantation agriculture*—when cash crops are grown on large estates
 - a) Colonial legacies that persist in poorer countries, primarily tropical countries
 - b) Many plantations in former colonies are still owned by European or American individuals
 - c) Multinational corporations tenaciously protected their economic interests in plantations
 - d) Case of the United Fruit Company in Guatemala is discussed
 - 7. Cotton and rubber
 - a) Cotton
 - (1) Production expanded during the Industrial Revolution
 - (2) Colonial powers pushed the production in their colonies
 - (3) Today, many former colonial countries have their own factories to produce finished goods for export
 - (4) Developed countries still buy cotton for their own factories, but much of it comes from the United States
 - b) Rubber
 - (1) Initially collected from rubber-producing trees that stood in equatorial rain forests, mainly in the Amazon Basin in northern South America
 - (2) Transported seedlings did very well on plantations in Southeast Asia
 - (3) Invention of the automobile was a tremendous boost to the rubber industry
 - (4) World War II stimulated the invention of synthetic rubber
 - (5) Expansion of rubber plantations relates directly to labor availability

- (6) Lately, efforts have been made to introduce plantation system along Amazon River in the heart of northern Brazil
- 8. Luxury crops
 - a) Examples—tea, cacao, coffee, and tobacco
 - b) Coffee
 - (1) First domesticated in the region of present-day Ethiopia
 - (2) Annually the United States buys more than half of all coffee sold on world markets
 - (3) About 70 percent of the world's coffee harvest is grown in Central and South America
 - (4) After petroleum, coffee is now the second most valuable traded commodity in the world
 - (5) Many enormous plantations are foreign-owned
 - c) Tea
 - (1) Consumed in greater amounts in the areas where it is grown than coffee
 - (2) Tea was first grown in China perhaps 2000 years ago
 - (3) The British established large tea plantations in Asia during the colonial period
- C. Commercial livestock, fruit, and grain agriculture (Figure 20-1)
 - 1. Largest areas of commercial agriculture lie outside the tropics
 - 2. **Dairying** is widespread at the northern margins of the mid-latitudes
 - 3. Mixed livestock and crop farming is widespread in the more humid parts of the midlatitudes
 - 4. Commercial grain farming prevails in the drier pats of the mid-latitudes
 - 5. Livestock ranching
 - a) Wide distribution
 - b) You may see a von Thünen pattern with livestock ranching on the periphery
 - c) Refrigeration has overcome the problem of perishability
 - d) High volume has lowered the unit cost of transportation
- D. Rice growing
 - 1. The United States is the world's leading exporter of rice followed by Thailand and Vietnam
 - 2. Grown on small plots and is labor-intensive in Southeast Asia
- E. Mediterranean agriculture
 - 1. Mediterranean agriculture occurs only in areas with that type of climate
 - 2. Special combination of crops
 - 3. These crops tend to be popular and command a high price
- F. Illegal drugs
 - 1. Farmers in poorer countries often find it more profitable to cultivate poppy, coca, or marijuana
 - 2. Now constitute an important source of revenue for parts of the global economic periphery
 - 3. Opium poppy plants are grown predominantly in Southeast and Southwest Asia
 - 4. Over 90 percent of illegal opium production comes from Afghanistan and Myamnar
- III. Environmental impacts of commercial agriculture
 - A. Significant changes
 - 1. Mediterranean Europe has lost its forests
 - 2. Cleared land is more intensively used
 - 3. Impacts can be particularly severe when commercial agriculture expands into marginal environments
 - 4. Impact of fast-food chains
 - a) Deforestation to open up pastures for beef cattle in Central and South America
 - b) Erosion affects everything from water quality to wildlife habitat

- B. Looking Ahead box: Organic Agriculture
- IV. The Third Agriculture Revolution
 - A. Introduction
 - B. The Green Revolution
 - 1. Began in the 1960s
 - 2. Scientists created IR36—an "artificial" rice plant
 - 3. By 1992 IR36 was the most widely grown crop on Earth
 - 4. New high-yield hybrid varieties of wheat and corn were developed and diffused
 - 5. Disastrous famines of the past have been avoided
 - 6. Asia saw a two-thirds increase in rice production
 - 7. New hybrids required use of chemical fertilizers and pesticides
 - a) Can lead to reduction of organic matter in the soil
 - b) Many small-scale farmers lack resources to acquire these chemicals and the seed
 - 8. Need for capital from the West has led to a shift away from production for local consumers toward export agriculture
 - 9. Has had limited geographical impact
 - C. New genetically modified foods
 - 1. Work to create genetically modified "super rice"
 - 2. Research has already led to methods for producing high-yield cassava and sorghum
 - 3. Concern that gene manipulation could create health risks and produce environmental hazards
 - 4. Plants genetically modified to reduce susceptibility to disease can reduce use of toxic pesticides
 - 5. China is growing an increasing amount of genetically modified tomatoes, rice, and cotton
 - 6. Poorer countries do not have access to the necessary capital and technology
 - D. A Sense of Scale box: The Impact of Changing Agricultural Practices
- V. Agribusiness and the changing geography of agriculture

A. Agribusiness

- 1. Transformed farms into corporate-like units
- 2. Summary of David Lanegran's about the raising of chickens in today's world
- 3. Is shaping the world distribution of commercial agricultural systems and their relationship to subsistence agriculture
- 4. The role of history and tradition in agricultural systems
- 5. Capacity of markets to influence the activities of farmers
- 6. Global network of farm production is oriented to the one-fifth of the world's population that is highly urbanized
- 7. The colonial imprint remains strong is some parts of the world