

Need to know:

Chapter 10: Agriculture (26)		
<ul style="list-style-type: none"> ▪ agribusiness ▪ aquaculture ▪ bioclimatic zones ▪ commercial agriculture ▪ economic sectors (primary, secondary, tertiary) ▪ extensive agriculture ▪ genetically modified organisms (GMOs) ▪ Green (Third Agricultural) Revolution ▪ horticulture 	<ul style="list-style-type: none"> ▪ industrial agriculture ▪ intensive agriculture ▪ market gardening (e.g. truck or commercial gardening) ▪ mixed crop/livestock system ▪ Neolithic (first) Agricultural Revolution ▪ organic farming ▪ pastoral nomadism (nomadic herding) ▪ plantation farming ▪ ranching 	<ul style="list-style-type: none"> ▪ Second Agricultural Revolution ▪ settlement patterns (circular, clustered, dispersed & linear) ▪ shifting cultivation ▪ subsistence agriculture ▪ survey systems (cadastral systems) ▪ sustainable agriculture ▪ vegetative planting ▪ Von Thünen Model

Should also know: (36)

<ul style="list-style-type: none"> ▪ agriculture ▪ Agricultural Location Model ▪ biotechnology ▪ Ester Boserup ▪ capital-intensive farming ▪ cash cropping ▪ combine & Reaper ▪ crop rotation ▪ debt-for-nature swap ▪ desertification ▪ deforestation 	<ul style="list-style-type: none"> ▪ forestry ▪ grain (cereal grain) ▪ double cropping ▪ factory farms ▪ intertillage ▪ labor-intensive farming ▪ local-food movement ▪ milkshed ▪ mixed farming ▪ monoculture ▪ regional appellations 	<ul style="list-style-type: none"> ▪ ridge tillage ▪ Sinclair Model ▪ slash-and-burn agriculture (swidden, milpa) ▪ spring and winter wheat ▪ staple crop ▪ tragedy of the commons ▪ transhumance ▪ value-added specialty foods ▪ wetlands destruction
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Be able to

- identify the hearths of vegetative planting, seed agriculture and animal domestication and their diffusion patterns. Connect these patterns to current diets, energy use and employed technologies.
- connect the major agriculture zones to bioclimatic conditions.
- explain the diversity of land use within bioclimatic zones (e.g. from market or cultural influences).
- identify and explain the various political, economic and environmental factors that affect the location of food processing.
- describe the three agricultural revolutions.
- explain how political systems, infrastructure & patterns of world trade affect food distribution.
- describe the roles of women in agricultural production particularly in subsistence farming and market economies of the developing world.
- discuss the various problems associated with modern agriculture (including: soil degradation, overgrazing, river and aquifer depletion, animal waste & extensive fertilizer and pesticide use).
- discuss some of the changes in food production due to the environmental, cultural & health problems of modern agriculture including organic farming, crop rotation, value-added specialty foods, regional appellations, fair trade, and eat-local-food movements. How do these affect world food-supply issues?

Reading Assignments: Rubenstein, Chapter 10 and Kuby, Ch. 8