**Chapter 14 Reading**

*Agricultural Regions*

Pages 227 – 240

All material in this chapter is fair game for quiz questions, which includes vocabulary. This means that you need to **READ** the whole chapter and not just answer the questions.

**Rural Land Use Patterns**

1. Who produced the most significant land use models and markets?

**The Cultural Landscape of Rural Settlements**

1. What TWO things does the rural landscape reflect?

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| 1 | 2 |

**Clusters & Dispersed Rural Settlement Patterns**

1. What are clustered settlements?
2. What do clustered settlements foster?
3. Where are the clustered settlements found?
4. What are dispersed settlements?
5. How was westward expansion promoted?

**Establishing Property Boundaries**

1. What is the metes and bands system?
2. What are townships?
3. What is a section?
4. How did Hutterites organize homes and barns?
5. What is a street village?
6. What is a French long lot system?

**Von Thünen’s Land Use Model Zones**

1. What did the Von Thünen Model suggest?
2. Decisions on what to produce was based on what TWO factors?

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**Description & Exploration of the Model**

1. What zone is closest to the market?
2. What TWO technologies allowed farmers to get perishable products to market quickly?

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1. What THREE products are very perishable?

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1. What is the second zone?
2. Why were forests important in the 1800s?
3. What TWO crops are predominantly grown in ring 3?

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| 1 | 2 |

1. What is in the final ring?
2. What happened to farm size closer to the ring’s center?

**Land Value**

1. What is the cost of land near urban centers?
2. What is the cost of land like away from urban centers?

**The Bid Rent Curve**

1. What does the Bid Rent Curve indicate?
2. What does each line represent?

**Applying Von Thünen’s Model**

1. What did Von Thünen recognize first?
2. Why does his model need to be updated?

**Non-Isotropic Plans**

1. What THREE phenomena make a landscape non-isotropic?

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| 1 | 2  | 3 |

1. What is comparative advantage?

**Multiple Markets**

1. What did the Von Thünen Model assume about markets?

**Changes in Transportation**

1. What FOUR pieces of technology allows food to travel farther and faster without spoiling?

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| 1 | 2  | 3 | 4 |

1. What TWO farming types are practiced in urban areas historically?

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**Other Changes in Technology**

1. Wood as a fuel was replaced by what THREE energy sources?

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| 1 | 2  | 3 |

1. What is a greenbelt?

**Modification on Natural Ecosystems**

1. What type of farming brought about the most change to the physical environment?

**Side Effects of Modern Food Production**

1. What have farmers done to forests?
2. How are farmers polluting lakes and rivers?
3. What TWO environmental degradation processes must herders be cautious of?

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1. In arid areas, what conflict has arisen due to irrigation practices?
2. How is draining wetland areas a dangerous practice?
3. How do farmers engage in agriculture in hilly areas?

**Protecting Natural Ecosystems**

1. How can a local community help repair their damaged environment?

**Agricultural Innovation**

1. In what THREE ways are agricultural scientists doing research?

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**Genetically Modified Organisms**

1. What are genetically modified organisms?
2. In what FOUR ways have GMOs been created to be better than traditional foods?

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1. What THREE countries engage heavily in the production of GMO agriculture?

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1. What are THREE concerns with use of GMOs?

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**Organic Foods**

1. In what THREE ways do people believe organic foods are healthier?

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1. Why is organic food more expensive?
2. In what FIVE ways is organic agriculture just as damaging, if not more so, than using GMOs?

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| 1 | 2  | 3 |
| 4 | 5 |  |

**Aquaculture**

1. What is aquaculture?
2. What is the Blue Revolution?
3. What are FIVE problems with open-pen systems in aquaculture?

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| 4 | 5 |  |

**Environmental Issues Related to Agriculture**

**Agricultural Chemicals & Fossil Fuels**

1. What THREE problems do chemicals attempt to solve for farmers?

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1. What THREE ways do fossil fuels damage the environment?

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| 1 | 2  | 3 |

**Depletion of Water Supplies**

1. How much of the world’s fresh water does agriculture use?
2. What is salinization?
3. What is happening to the Aral Sea?

**Loss of Biodiversity**

1. What is monoculture?

**Soil Degradation & Erosion**

1. What is overgraze?
2. In what THREE ways can overgrazing occur?

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1. What is pastoral nomadism?
2. In what THREE ways is pastoral nomadism becoming endangered as a practice?

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**Animal Waste**

1. How can animal waste from feedlots damage the environment?

**Sustainability & Agriculture**

**Changes in Food Production & Consumption**

1. What FOUR trends are happening globally in agriculture?

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**Fair Trade & Local Food**

1. What is fair trade?
2. What is the eat local movement?

**Location of Food Production Facilities**

1. Why did food processing centers want to be located in rural areas?
2. What is economies of scale?
3. Where are food production facilities moving to presently?

**Gender Roles in the Food System**

1. What percentage of women make up the global agricultural industry?
2. What type of agriculture is dominated 70% by women?
3. What gender took over the mechanized farming system in developing countries?
4. What FOUR roles do women play in large-scale agribusiness?

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1. As people moved to urban areas, what did they do less of?
2. What happened to food preparation in the kitchen over time?
3. What food industry grew as more and more people stopped cooking in the home?