**Ch. 9 Food and Agriculture**

**Key Issue 3 Where IS Agriculture Distributed?**

**Rubenstein, p.316-331**

**I. AGRICULTURAL REGIONS AND CLIMATE**

1. a. Geographer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1936) created an agricultural map of the

world that is still widely used today. His map contained 11 agricultural zones:

- 5 are found among developing countries: - 6 are found among developed countries:

pastoral nomadism mixed crop & livestock

shifting cultivation dairy

intensive subsistence, wet rice dominant grain

intensive subsistence, wet rice not dominant livestock ranching

plantation Mediterranean

commercial gardening

c. While there is a correlation between the agricultural map and a world map of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

regions, differences in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

also explain agricultural differences in areas of similar climate. (Viewing climate as the sole

factor in what a region cultivates would be an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

which most geographers reject.)

1. In Figures 9-13 & 9-14, do the agricultural regions match the climate regions more closely in the developed regions developing regions? Why do you think this might be the case?

**II. SUBSISTENCE AGRICULTURE IN DEVELOPING COUNTRIES – 5 regions/practices**

1. What percent of the world’s population today survive by hunting and gathering?

PASTORAL NOMADISM

a. Define **pastoral nomadism**:

1. Found in \_\_\_\_\_\_\_\_\_\_ climates because:
2. How do pastoral nomads obtain grain?
3. What animals are chosen and why?
4. Describe territoriality among pastoral nomads.
5. Describe the practice of **transhumance**.
6. Identify reasons pastoral nomadism is declining in practice.

SHIFTING CULTIVATION (also called **SLASH-AND-BURN**)

a. Found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ climates with (2 characteristics):

b. Identify the two hallmark characteristics of the technique of shifting cultivation.

1. What is **swidden** and how long are they used?
2. What is *potash?*
3. In terms of organization, how does the practice of shifting cultivation differ from practices in developed countries?
4. How is land owned in a typical village that practices shifting cultivation? Recent changes?
5. What percentage of the world’s land area is devoted to shifting cultivation? What percentage of the world’s people work it? What do these figures illustrate about shifting cultivation?

|  |  |
| --- | --- |
| *Describe the pros and cons of shifting cultivation.* | |
| PROS (Arguments against replacing shifting cultivation) | CONS (How is shifting cultivation being replaced?) |

PLANTATION FARMING

1. Define **plantation farming**:
2. Found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ regions, especially in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

though often owned by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Typical crops:

Define and take notes on **intensive subsistence agriculture**:

What is **double cropping**? Examples?

INTENSIVE SUBSISTENCE, WET-RICE DOMINANT

1. Define **wet rice**:
2. Where commonly practiced?
3. Identify the stages of the time-consuming process shown in the pictures below:





**Sawah** -

**Paddy** -





INTENSIVE SUBSISTENCE, WET RICE NOT DOMINANT

1. Where practiced and why?
2. Common crops:
3. Define **cash crops**:

Examples:

1. Define **crop rotation**:

**III. FISHING**

1. Identify and define the two ways water-based food is acquired:
2. Take notes on each of the following practices:

* Fish production -
* Fish consumption -

* Overfishing -

**IV. COMMERCIAL FARMING IN DEVELOPED COUNTRIES – 6 regions/practices**

Define **agribusiness**:

* Includes a variety of services/enterprises, such as:

Farmers comprise \_\_\_\_\_\_\_\_% of the U.S. workforce, but \_\_\_\_\_\_\_% of U.S. laborers work in food production & services related to agribusiness.

(Commercial) GRAIN FARMING

1. What is the principal difference between grains common in “commercial grain farming” regions and grains grown in “mixed crop and livestock” regions?
2. Identify the three regions of large-scale grain production in North America.
3. Identify multiple reasons that show why wheat is an important crop.
4. How has the distribution of wheat production changed in the last 50 years?

(Commercial) MEDITERRANEAN AGRICULTURE

1. Most crops are grown for:
2. Located in what regions? Climate factors?
3. Define **horticulture**:
4. Key cash crops along the Mediterranean:
5. Key cash crops in California:

COMMERCIAL GARDENING & FRUIT FARMING (also called **Truck Farming**)

1. Located in what regions? Climate factors?
2. Types of crops:
3. Sold to?
4. What is specialty farming? Located?

(Commercial) MIXED CROP & LIVESTOCK

1. Describe **mixed crop and livestock farming**:
2. Located in what regions?
3. Describe the irony between the amount of land devoted to crops vs. animals and the income generated by each in this region.
4. How does this type of agriculture allow farmers to more evenly “distribute their workload”?
5. Where is the U.S. Corn Belt and what crop is making rapid inroads among farms there?
6. In what different ways is the corn used?

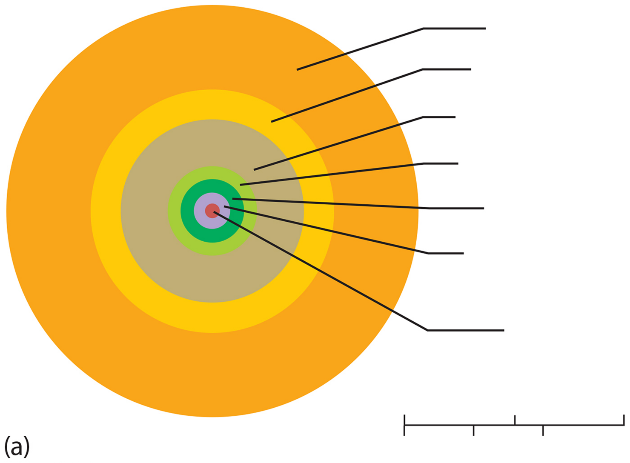
***The von Thünen Model*** *(Label the models below.)*

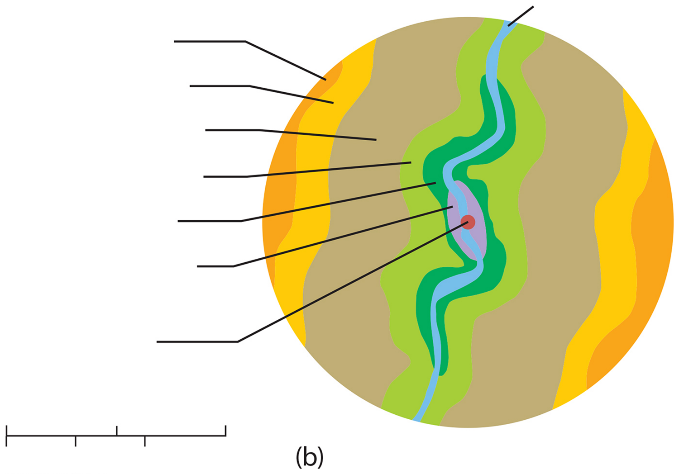
*(Johann Heinrich von Thünen, 1826)*

* Applies to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ farming because…
* Key concepts:
  + Describes the relationship between what

two factors/decisions a farmer makes?

* + In making their choices, farmers compare what two costs?
  + Identify/describe each of the model’s rings:
    - First ring:
    - Second ring:
    - Third ring:
    - Fourth ring:





DAIRY

LIVESTOCK RANCHING

(Commercial) DAIRY

1. Located where and why?
2. Define **milkshed**:
3. Why do some regions specialize in milk products such as cheese and butter rather than fluid milk? Identify some of these important regions.
4. What country is the world’s largest per capita producer of dairy products?

Define **per capita** -

1. What challenges do dairy farmers currently face?

(Commercial) LIVESTOCK RANCHING

1. Define **ranching**:
2. Located where and why?
3. Growth in ranching has occurred where recently? Examples?
4. How has ranching changed in the U.S. in recent years? Why?
5. What animals are ranched commonly around the world other than cattle?