

2010 AP® HUMAN GEOGRAPHY FREE-RESPONSE QUESTIONS

HUMAN GEOGRAPHY

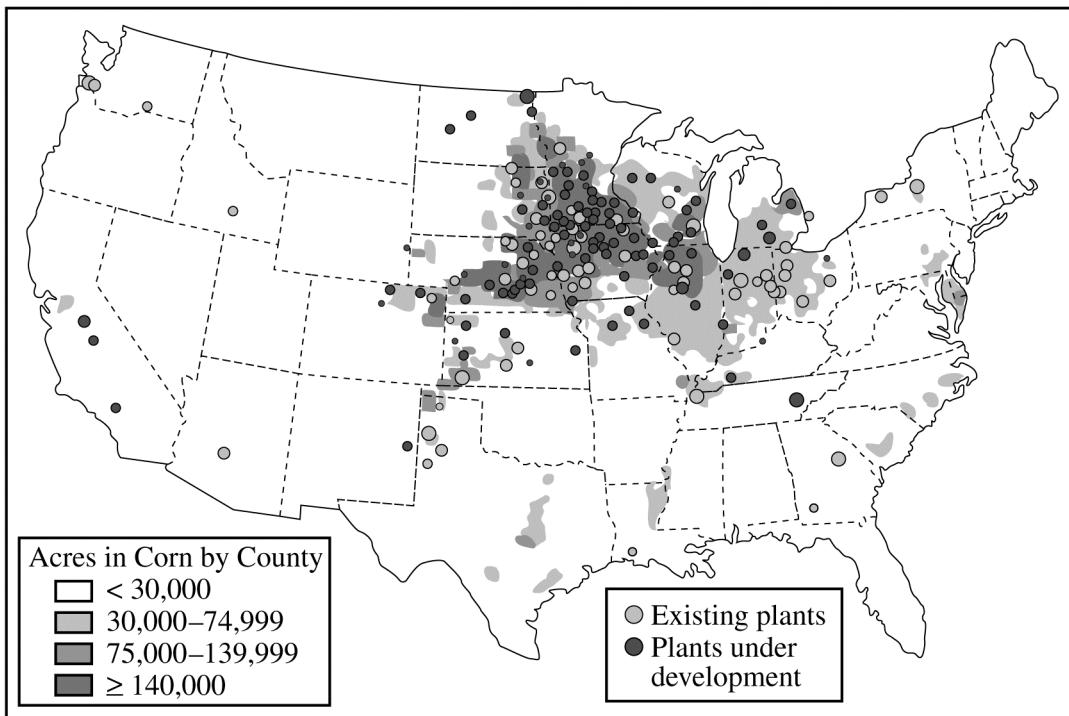
SECTION II

Time—75 minutes

Percent of total score—50

Directions: You have 75 minutes to answer all three of the following questions. It is recommended that you spend approximately one-third of your time (25 minutes) on each question. It is suggested that you take up to 5 minutes of this time to plan and outline each answer. While a formal essay is not required, it is not enough to answer a question by merely listing facts. Illustrate your answers with substantive geographic examples where appropriate. Be sure that you number each of your answers, including individual parts, in the answer booklet as the questions are numbered below.

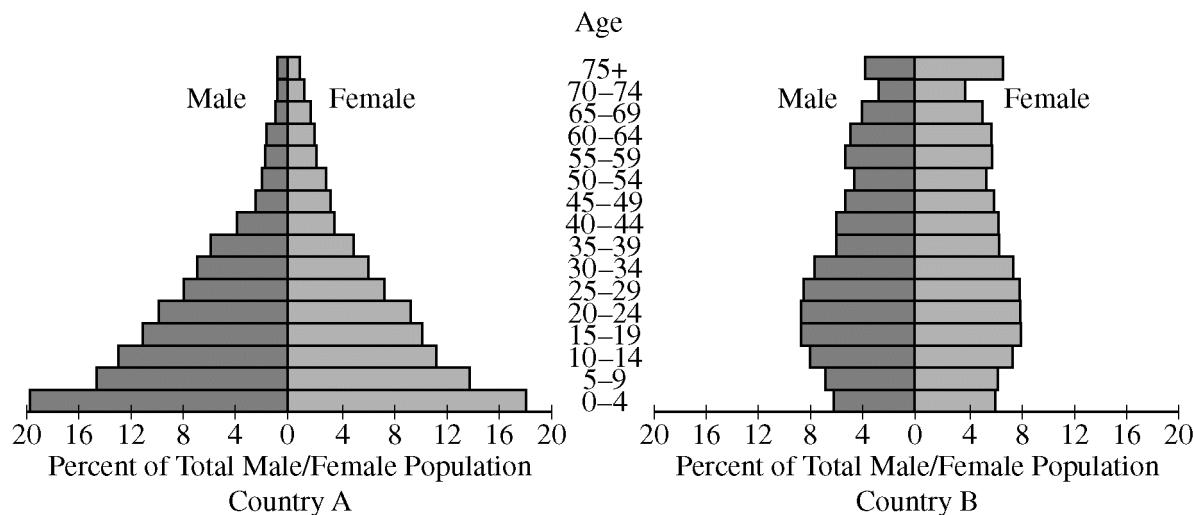
ETHANOL MANUFACTURING PLANTS, 2007



1. According to Alfred Weber's theory of industrial location, three factors determine the location of a manufacturing plant: the location of raw materials, the location of the market, and transportation costs.
 - A. Using an example of a specific industry other than the one portrayed on the map above, explain under what conditions an industry would locate near the market.
 - B. Using an example of a specific industry other than the one portrayed on the map above, explain under what conditions an industry would locate near raw materials.
 - C. Using the map above and Weberian theory, explain the geography of ethanol plants in the United States.

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2. Since 1950 many states have faced challenges in developing a strong national identity.
- A. Using contemporary examples, explain how each of the following has contributed to the development of national identity and the strengthening of a state.
1. Economic development
 2. Relocation of a state's capital (since 1950)
- B. Using contemporary examples, explain how each of the following may detract from the development of national identity and weaken a state.
1. Ethnicity
 2. Transportation infrastructure
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3. The population pyramids above represent two countries at different stages of the demographic transition and economic development.
- A. Explain the demographic characteristics of each country above with respect to the demographic transition model.
- B. Discuss ONE positive impact of EACH country's population structure on its economic development.
- C. Discuss ONE negative impact of EACH country's population structure on its economic development.

STOP

END OF EXAM

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Question 1

According to Alfred Weber's theory of industrial location, three factors determine the location of a manufacturing plant: the location of raw materials, the location of the market, and transportation costs.

Part A (2 points)

Using an example of a specific industry other than the one portrayed on the map above, explain under what conditions an industry would locate near the market.

Examples of appropriate industries (1 point)	Explanation (1 point)
Soft-drink bottling	Weight/bulk are gained in processing/manufacturing;
Bread products	therefore the industry locates close to the market in order to minimize transportation costs.

Note: The industry identified must match the explanation.

Part B (2 points)

Using an example of a specific industry other than the one portrayed on the map above, explain under what conditions an industry would locate near raw materials.

Examples of appropriate industries (1 point)	Explanation (1 point)
Copper smelting Lumber products used for paper or furniture	Weight/bulk are lost in processing/manufacturing; therefore the industry locates close to the source of raw materials in order to minimize transportation costs.

Note: The industry identified must match the explanation.

Part C (2 points)

Using the map above and Weberian theory, explain the geography of ethanol plants in the United States.

Factor for plant location (1 point)	Explanation (1 point)
Plants are located close to the key raw material of corn <u>in order to minimize transportation costs.</u>	Ethanol is a weight-/bulk-losing industry. Corn is bulky; thus plants are built close to the supply of raw material in order to minimize transportation costs and maximize profit.

Note: "Explain" in this case should mean "tell why." The explanation should be linked to Weber's theory and discuss the weight-loss situation, or the second point is not awarded.