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Chapter

11

Economic and Spatial Impacts of Agriculture

Rural and Agricultural Geography 2

Note: all of the following information in addition to your reading is important.

 * The following can be answered using both the text and video. • Define: Second Agricultural Revolution -
Briefly describe the impact the Little Ice Age had on food production
 Briefly describe the open field system that was dominant in Europe during the Medieval Warm Period
 Briefly describe how each of the following features of the Second Agricultural Revolution contributed to greater food production:
 Enclosure Movement
 Crop rotation
Seed drill
McCormack Reaper
Livestock breeding
Railroad
 ONE other innovation
•(1783-1850) witnessed the 2nd Agr. Rev. firsthand (in Germany); his model was the first effort to analyze thecharacter of economic activity. • Discuss the assumptions made for the model (to simplify the goal world):
(to simplify the real world): • Terrain -
o Transportation
Natural conditionsHuman conditions
Four rings formed around the town (or city); briefly explain the location of the commodities (or crops) that dominated each ring: Ring 1
 Ring 2 - Ring 3 -
o Ring 4 -

Briefly discuss the validity of the "Isolated State" in the real world
The Third Agricultural Revolution
Define: Third Agricultural Revolution (a.k.a. "Green Revolution")
Discuss how biotechnology (through hybridization and development of HYVs) has increased crop yields -
Discuss how chemical farming has increased crop yields
Discuss how other technologies (e.g., irrigation, mechanization) have increased crop yields
Discuss the methods and impact of the Green Revolution in Mexico
Discuss the methods and impact of the Green Revolution in India
Discuss why the Green Revolution has had only a minimal impact in Africa –
List a few ways in which the Green Revolution has been successful, and can continue to be a success
List a few ways in which the Green Revolution has been a failure, and may limit its future success
Define: biodiversity, and describe the impact the Green Revolution has had on biodiversity
Define: Gene (Biotechnology) Revolution (and genetically modified organisms) –
Discuss TWO positives of GMOs
Discuss TWO negatives of GMOs