Chapter 11: Industry

The Cultural Landscape: An Introduction to Human Geography
Where is Industry Distributed?

Key Issue 1 – Pg 342-249

• Origin of industry (pg 345)
  – Began - ?
  – From *cottage industries* to the *Industrial Revolution*
  – Impact of the Industrial Revolution especially great on:
    • iron,
    • coal,
Where is Industry Distributed?

Key Issue 1 – Pg 342-249

• Origin of industry (pg 345-346)
  • transportation (what was the most important transportation in the 18th century),
  • textiles,
  • Chemicals (including - ?)
  • food processing
Where is Industry Distributed?
Key Issue 1 – Pg 342-249

Diffusion of the Industrial Revolution

Figure 11-2
Where is Industry Distributed?

Key Issue 1 – Pg 342-249

• (pg 346)
• Industrial regions
  – Europe
    • Emerged in late nineteenth and early twentieth centuries
  – North America
    • Industry arrived later but spread faster than in Europe
  – East Asia
Industrial Regions

Figure 11-3
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Where is Industry Distributed?

Key Issue 1 – Pg 342-349

Where are the industrial areas of Western Europe?
Where are the industrial areas of Eastern Europe?

Figure 11-4

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Where is Industry Distributed?

Key Issue 1 – Pg 342-349

In which Western European industrial area is proximity to Europe’s most important consumer market?

What’s the oldest and most important industrial area in Southern Europe?

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Where is Industry Distributed?

Key Issue 1 – Pg 342-349

Which industrial area in Eastern Europe has the most varied mineral deposits?

Figure 11-4

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Where is Industry Distributed?

Key Issue 1 – Pg 342-349

The leading industrial area in the United States is the Northeast; What is the second leading industrial area in the U.S.? (pg 349)
Where is Industry Distributed?

Key Issue 1 – Pg 342-349

Why was Eastern North America the continents manufacturing center? (pg 348)
Where is Industry Distributed?

Key Issue 1 – Pg 342-349

What is Canada’s most important industrial area? (pg 348)
East Asia’s Industrial Areas

What obstacles did Japan have to overcome in order to become a major industrial power? (pg 349)
Why Are Situation Factors Important?

Key Issue 2 (pg 350-355)

Site - ?
Situation - ?

• Proximity to inputs
  – Bulk-reducing industries - ?
  – Examples:
    • Copper
      – Mining
      – Concentration
      – Smelting
      – Refining
    • Steel - ?

Figure 11-8
Why Are Situation Factors Important?

Key Issue 2 (pg 350-355)

- **Proximity to markets** (pg 352-354)
  - Bulk-gaining industries
    - ?
    - *What expenses need to be minimized?*
  - Examples:
    - Fabricated metals - ?
      - Largest market??
    - Beverage production
  - Single-market manufacturers
  - Perishable products
    - *What product, other than food, is considered perishable?*

Figure 11-10

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Why Are Situation Factors Important?

Key Issue 2 (pg 350-355)

• Proximity to markets (pg 352-354)
  – *Bulk-gaining industries*
  – Examples:
    • Fabricated metals
      – Largest market?
      – Where are most of the automobile assembly plants in the U.S. located?
    • Beverage production
      – Single-market manufacturers
      – Perishable products

Figure 11-10
Why Are Situation Factors Important?
Key Issue 2 (pg 350-355)

• Ship, rail, truck, or air?
  – The farther something is transported, the lower the cost per km/mile
  – Cost decreases at different rates for each of the four modes
    • Truck = most often for short-distance travel
    • Train = used to ship longer distances (1 day+)
    • Ship = slow, but very low cost per km/mile
    • Air = most expensive, but very fast
Why Are Situation Factors Important?
Key Issue 2 (pg 350-355)

• Ship, rail, truck, or air?
  – Break-of-bulk point?
    • Why is this important to a company?
Why Are Site Factors Important?

Key Issue 3 – pg 356 -361

- **Site Factors:**
  - Labor
  - Land
  - Capital

- **Labor**
  - The most important site factor
    - Labor-intensive industries
  - Examples: textiles
    - Textile and apparel spinning
    - Textile and apparel weaving
    - Textile and apparel assembly
Cotton Yarn Production

Figure 11-16

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Woven Cotton Fabric Production

Figure 11-17

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Production of Women’s Blouses

Figure 11-18
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Why Are Site Factors Important?

Key Issue 3

• Land
  – Rural sites
  – Environmental factors

• Capital

Figure 11-20
Why Are Location Factors Changing?
Key Issue 4

• Attraction of new industrial regions
  – Changing industrial distribution within MDCs
    • Interregional shift within the United States
      – Right-to-work laws
      – Textile production
    • Interregional shifts in Europe
      – Convergence shifts
      – Competitive and employment regions
  • This Western European country has experienced the most rapid manufacturing growth.
Changing U.S. Manufacturing

Figure 11-21
Manufacturers of Men’s and Women’s Socks and Hosiery

Figure 11-22
European Union Structural Funds
Why Are Location Factors Changing?

• Attraction of new industrial regions
  – International shifts in industry
    • East Asia
    • South Asia
    • Latin America
      – Maquiladora
  – Changing distributions
  – Outsourcing
    • New international division of labor
    • Outsourcing
World Steel Production

Figure 11-24

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Global Production

Figure 11-25

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Apparel Production and Jobs in the United States

Figure 11-26

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Why Are Location Factors Changing?

• Renewed attraction of traditional industrial regions
  – Proximity to skilled labor
    • Fordist, or mass production
    • Post-Fordist, or lean production
  – Just-in-time delivery
    – Benefits: ?
    – Possible problems: ?
Electronic Computing Manufacturing

Figure 11-28

ELECTRONIC COMPUTER MANUFACTURING
(NUMBER OF ESTABLISHMENTS)

- Brown: 100 and above
- Dark Brown: 50–99
- Light Brown: 10–49
- Light: Below 10
Women’s and Girls’ Cut and Sew Apparel Manufacturing

Figure 11-29
The End.

Up next: Services