

Urban Land Use & Management: Chapter 25

Sustainable Cities:

1. "Urban area" defined:
2. Major causes of urban growth:
3. Major global urbanization patterns:
 - *the proportion of the world's people in urban areas
 - **"Megacities"
 - Tokyo, Sao Paulo, Mexico City, NYC, Bombay (Mumbai), Shanghai, LA, Beijing, Calcutta, Seoul, Jakarta, Buenos Aires, Tianjin, Osaka, Lagos
4. Urban growth in LDCs vs. MDCs:
5. Case Study: Mexico City
 - Discuss four of the major challenges facing this major city...
6. Identify 3 major population demographic trends which have occurred in the U.S. over the last 150 years or so;
7. The pros and cons of urban life in the U.S.A.
 - (applicable to other nations; see #10 below)
8. Urban Sprawl defined:
 - *Growth of low-density development on edges of cities/towns
 - *Factors which may contribute to such growth:
9. Major Spatial Patterns of Urban Development: a) Concentric circle; b) Sector City; c) Multiple-nuclei
10. Urban Resource and Environmental Challenges /Problems:
 - a. Life span, Quality of Life, Standard of Living, I.M.R., Med. care
 - b. Recycling
 - c. Land area required
 - d. Resource Use
 - e. Waste production/"Throughputs"
 - f. Self-supporting?
 - g. Density-dependent pop. control factors:
 - h. Microclimates: heat island effect/urban heat islands ways to potentially counter the heat island effect:
 - i. "Metabolism": Linear vs. Circular
11. Crime and the Environment: connect. P.667
12. Major resource challenges/problems of large cities:
13. Motor Vehicles: some pros and cons
14. Ecological Land Use Planning: page 676 + General and specific characteristics
15. Describe three major water resource problems in urban areas:
16. Name two major urban pollution problems/challenges:
17. Noise pollution:
18. Urban growth and influences on rural areas:
19. Transportation and urban development: Be familiar with the pros and cons of each the following:
 - Personal autos, Motor scooters, Buses, Light-Rail, Trolleys, High-speed regional Trains, Bicycling, Walking
20. Case study: Curitiba, Brazil pages 674-675
21. "Smart Growth" page 678
22. Describe three methods of potentially preserving open space in urban areas.
23. Making urban areas more sustainable: Describe four methods of potentially achieving this goal.