Regional Landscapes of the United States and Canada

MEGALOPOLIS: The Urban Landscape of the Northeast

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Regional Landscape Studies

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<<<For each region:
1. Know its physical geography.
2. Identify its unique characteristics.
3. Be able to explain the human imprint.
4. Discuss its sequence occupancy and economic development.

MEGALOPOLIS

MEGALO = very large  POLIS = city

- Term created in the 1930s and used to describe any large urban area created by the growth toward each other and eventual merging of two or more cities. (Lower-case “m”)

Visualizing Megalopolis: Night View

Stretches over 500 miles along the mid-Atlantic coast from Boston, MA to Washington, DC. Some argue that it now extends 700 miles from Portland, Maine to Norfolk, Virginia.

MEGALOPOLIS

When you think about this region, what images come into your mind?

- Tall buildings
- Congestion
- Many, many people
- Shopping
- Ethnic neighborhoods
- “Unnatural” areas
- Urban problems
- Road traffic
- Activity 24/7
- Manufacturing
- Cultural institutions

Megalopolis: USA’s Urbanized Northeast

- Made up of 117 contiguous counties in 12 states + DC that exhibit some urban characteristics.
- Referred to as the “Northeast Corridor” because it is linked by Interstate 95 and Amtrak.
- This region has changed shape (gotten longer and wider) as new means of transportation allow people to travel from distant areas to its cities daily.

See Textbook Ch. 5 and 14
Megalopolis’s Landscapes

Includes large cities, small towns and rural areas where most of the people reside in an urban place.

Urban places are linked by networks that allow people, goods, services and ideas to move easily.

Urban places have sub-landscapes.

Identifying Landscape Change

Gottman’s studies in the 1950s noted an evolving densely populated landscape along the northeast coast of the U.S. The five core cities (Boston, New York, Philadelphia, Baltimore, Washington) were growing toward each other to form one large urban conglomeration nearly 500 miles long. This area has densities approaching 1,000 people/sq. mi. compared to the population density for the entire US of c.75 people/sq. mi.

Creation of Megalopolis

**CONURBATION:** Smaller urban areas grow toward each other, filling the non-urban gaps between them.
- They remain independent of each other politically and services-wise.

- Urbanization will spread along transportation lines.
- The faster and more reliable the transportation, the greater the distance can be covered in the same period of time.

- This allows for expansion and the creation of a mega-city as conurbations merge and people move easily within the area.

Growth of Megalopolis 1900-2050

The development of an urbanized area takes on a life cycle.

1. Creation (reason for being)
2. Growth
3. Stagnation
4. Demise
5. Resurgence

Resurgence leads to the creation of a new identity.

Filling of Megalopolis

Rural gaps are quickly being filled by suburbanization and exurbanization processes, mostly at the expense of farmland and other unprotected open space.

RECAP: Urban Landscape Development Sequence

The development of an urbanized area takes on a life cycle.
Megalopolis as an Urban Region

Does this large region (land area and population) have the characteristics of an urbanized place?

- What are the unique circumstances that support its creation? (site characteristics)
- Are there situational advantages? (reasons for being)
- Does it have pull factors? (“functions” and reasons to concentrate people)
- Does it reap the economic advantages associated with concentration, accessibility, and movement (acting as both a collection and distribution point).
- What types of spatial organization are present? (needed to deal with an intense and complex situation)
- Has it evolved? (changes; push factors; new pull factors)

Beneficial Site Characteristics

- Coastal location: allowed for regional trade and interaction with the world, esp. Europe.
- Numerous estuaries and bays: good harbors.
- Moderate climate: cold winters, yet ice free harbors, and ample precipitation for a fresh water supply.
- Variable soils: provided enough food for residents but tended to be less productive than agricultural regions. (Better soils in the area south of Philadelphia).
- Mixed forest: Variety of tree species provided wood for many uses.
- Flat to gently rolling terrain: easy to use.
- Straddles two physiographic regions: includes the Fall Line (site of water power).

The Fall Line

- Marks the border between the Piedmont and the Atlantic Coastal Plain.
- Rapids and waterfalls are present. Rivers flow from the Piedmont’s (hard rock) higher elevation onto the soft rock coastal plain.
- These were the sites for the first water mills that were the catalyst for urban development.

SITUATION of Megalopolis

- Good location for trade and immigration relative to Europe.
- Accessible,
  - Along the natural “triangle” trade routes between Europe, Africa, the Caribbean, South America (wind/ocean currents).
  - Routes to the interior: natural and man-made, especially Hudson-Mohawk corridor and the Erie Canal
  - Convenient service point for ships sailing the North Atlantic routes.

Access to the Interior (Hinterland)

Of all east coast cities, only NYC had direct access to the interior of North America. (Other ports were Europe-focused). By coincidence it also had the largest and best harbor.
The Hudson-Mohawk Corridor provided an easy and fast route from the Atlantic Ocean to the Great Lakes.

Megalopolis the Region: Today

- Urban landscape dominates with urbanization expanding into surrounding farmland/rural areas.
- Rural areas persist but are getting smaller.
- 10 major metropolitan areas of over 1 million people exist + many smaller cities with large populations.
- Has 17% of the total US population but only 1.5% of the total land area
- 20% of all U.S. export trade moves through its ports.
- It is a region of international significance and influence.
- Employment has shifted from the factory to the office, service and technology fields.
- Has the nation’s richest and poorest people, as well as its most and least influential groups.
Linkages in Megalopolis

Urban places in Megalopolis are linked by a dense transportation grid of road, rail, air and telecommunications. Water travel was important too.

Long distance commute animation.

http://2.bp.blogspot.com/--oP2C-2PRmI/VqUGqD-uMII/AAAAAAAAAsY/mlK8roOzJQQ/s1600/boswash50ms.gif

Landscape Development within Megalopolis

Today’s area is the northern portion of the 13 Original Colonies.

• All began with settlement of New England colonies.
• American landscape took on a new appearance: English land-settlement scheme
  – Consisted of a town inhabited by farmers and artisans.
  – Common pasture and forest land administrated by local governing board.
  – Cultivated land surrounding the village
• Growth of coastal towns necessitated movement inland for new farmland to supply food: they were connected to coastal towns by road
• New England towns were the first manufacturing areas of America: Yankee ingenuity/inventions
• Mill towns grew where there was waterpower.

Landscape Pattern within Megalopolis resulting from the Metes and Bounds Land Survey System

This demarcation method can be seen in the shape of plots of land throughout Megalopolis including the shape of lots and the alignment of streets.

Landscape Development within Megalopolis

• Sources of the visual landscape in colonial cities are evident: place names, land division and road networks.
• Cities grew as people focused on best areas; economically sound, had links to the outside and were culturally inviting (pull factors).
• Mid-Atlantic cities took on a European flavor and appearance because those colonies (NY, NJ, PA, DE, MD) where more tolerant of outsiders’ customs, languages and religions.
• Technological developments changed their appearance (modernization): inventions, public health measures, construction methods, landscaped parks, paved streets, sewers, mass transit, etc.

Landscape Development within Megalopolis

• Manufacturing grew in cities: sources of labor, money and ancillary services.
• Cities’ need for workers lured people: local farmers, laborers from other regions, and immigrants from abroad.
• Transportation routes focused on the cities: need to move people, raw materials and finished products to market (ship/road/rail).
• Subdivision occurred: manufacturing and warehousing districts; workers’ housing areas; ethnic neighborhoods; upscale sections for the wealthy and powerful; amusement parks; later zoning.
• Mountain and seaside resorts grew near cities: catered to both the wealthy and the worker; leisure time.
• Estates were established in areas around the cities (for the rich to get away).
Estates in Megalopolis

Houses of the rich and famous on land purchased outside of the city.

Landscape Evolution

- As the inner city ages, becomes crowded, dirty and unsafe (a new type of landscape; push factor), there is movement away by those who could
- Manufacturing areas begin to decay as facilities, structures and methodologies become outdated; industry abandons the city.
- Abandonment takes away jobs; tax base suffers.
- Housing areas (neighborhoods) begin to decay as workers move away and poverty levels rise.

Evolution: Redistribution of Megalopolis’ Population

- Growth of suburbs (1950s).
- Out-migration of urbanites/suburbanites to small, distant towns between cities (1960s).
- Clusters of high-rise buildings (office and residential) in the CBD/central business district (1990s).
- Slowing of movement out of city centers.
- Movement back to cities: “gentrification” (2000s).
- Attraction of jobs/amenities to higher-income workers.
- Displacement of low-income residents.
- Ethnic neighborhoods change.
- Aging, changing, expensive suburbs (sprawl, min. services)

Gentrification

The process of change that occurs when wealthier people (the “gentry”) buy and move into housing property in urban areas where the existing population is less prosperous. Includes the conversion of properties (as warehouses and factories) into upscale uses. Characteristics of neighborhoods change including the visual landscape.

Human-dominated Landscape

Urbanization has altered the ecology of the region.
1. Reduced natural space/wildlife habit/farmland.
2. Created a conflict betw. native and introduced species.
3. Changed the area’s hydrology (stream diversion, wetlands drainage, pumping groundwater, paving, slope alteration).
4. Altered shorelines (land fill; hardening; groins/jetties).
5. Created of microclimates (reduced open space; concrete and asphalt surfaces).
6. Polluted its area (air, water, land, noise).
7. Has increased the dangers from natural processes, now deemed hazards.

PROBLEMS facing Megalopolis and its cities

Can urban problems be visualized?
Can a “problem” urban landscape be recognized?
Once recognized, how are they dealt with?

- Congestion: large numbers of people and vehicles: need for adequate transportation systems, housing and services
- Health Issues: food, water supply, waste management, controlling disease, dealing with dying and dead people.
- Quality of Life Issues: crowding, crime, poverty, health care, pollution
- Pollution: air, water, land, noise
- Hazards: storms, earthquakes, flooding, fire, terrorism
Components of Megalopolis: Comparing Anchor City Metro Areas (all at same scale)

Boston
Original site on a peninsula on a sheltered bay.

New York City
Original site at the narrow tip of an island on twin sheltered bays.

Philadelphia
Original site on high ground on a peninsula between two rivers.

Boston
New York City
Philadelphia
Philadelphia

Original site at the mouth of a river at the head of a sheltered bay.

Baltimore

Original site on donated marshland near the head of navigation on a river.

Plan of Washington, DC

The street plan of Washington was created to mimic the design of the monumental capitals of Europe.

Washington, DC

NEXT

Canada’s National Core