





OVERVIEW - Physical Geography

- Variations in topography and elevation: mountains, plateaus, salt flats.
- Contains both the highest (Mt. McKinley +20,320 ft) and lowest (Death Valley -282 ft) points of North America.
- Significant climatic variation because of great range of both latitude and altitude.
- Driest conditions in North America.
- Water problem: a growing imbalance between supply and demand.

OVERVIEW – Human Geography

- Low population densities with some large cities and areas of high growth: Salt Lake City, Las Vegas.
- Some regionally distinctive populations: a mix of ethnicities, a concentration of Native Americans and influence of the Mormon Church.
- Economic activities **related to resource removal** and **recreation** are key but unevenly distributed.
- In the U.S., a significant amount of federally owned lands.
- Region includes some of the most spectacular national parks of the U.S. and Canada.

Physiography - Mountains

- Major mountain ranges:
 - Rocky Mts. (Northern or Canadian Rockies, Middle Rockies and Southern Rockies)
 - Brooks Range; Alaska Range
- Features:
 - Continental Divide backbone of North America
 - Very steep slopes with jagged summits.
 - Dramatic elevation changes: local relief over 3000 ft from base to summit.
 - Shaped by water and ice.
 - Barrier to movement.





Physiography - Plateaus

- Colorado Plateau: a dissected sedimentary plateau carved by rivers; "canyon lands" area over 5000 feet thick.
- **Basin and Range:** a fault-block deformed area of sedimentary rock layers; area of interior drainage.
- **Columbia Plateau:** basalt plateau formed from the gradual buildup of lava flows; over 2000 feet thick with narrow, deep canyons.

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Basin and Range

 Lake Bonneville was largest Ice Age lake (N. Utah). Great Salt Lake and numerous <u>salt flats</u> are remnants.







Climate • Arid or semiarid throughout most of the area, especially in southern portion. - Vertical zonation of climate • Vertical zonation of vegetation; tree line dependent on moisture - Snow is the chief form of precipitation. - Thunderstorms in summer. - Low lying areas are dry. - Heaviest precipitation on mid-slopes of mountains. • People, wildlife and natural vegetation depend on

 People, wildlife and natural vegetation depend on water from exotic streams (a stream that originates in a wet area and flows through a desert). In driest areas these streams can be salty.











Mormon Influence

- Church of Jesus Christ of Latter-Day Saints was founded in NYS (1830). Its adherents suffered repeated attacks and persecution.
- **Migrated to West**; settled in the Wasatch Valley between Wasatch Mountains and Great Salt Lake.
- Rapid population growth: high birth rate; migration and missionary outreach for converts.
- Innovative agriculturalists, esp. irrigation techniques.
- Strong central organization (theocracy).
- Tried but failed to create the State of Deseret; Utah Territory (est'd 1850) was admitted to the Union in 1896.







Irrigation and Agriculture

Naturally arid conditions do not support agriculture without irrigation.

- Diversion of rivers
- Doctrine of Prior Appropriation: "first come, first served"
- Reclamation Act of 1902: support for water works.
- Water from the Colorado and Columbia-Snake river systems is essential to the region.









Columbia River Basin An international project to provide water for irrigation, navigation, hydroelectric power and flood control.



Public Control of Land

- · Conservation Programs
 - U.S. national park system
 - U.S. national forests
 - Canadian provincial lands
- Criticism
- Hindrance to planning
- Hindrance to resource development
- Hindrance to
- commercial grazing - Plight of Indian
- reservations in regions









Lumbering and Ranching

- · Depend on the use of federal lands U.S. Forest Service and Bureau of Land Management lands open to grazing

 - Most lumbering in national forests
 - Productivity of federal lands less than private lands
 - Low quality of federal lands
 - Federal lands by definition multiple use
- Transhumance
 - Seasonal movement of animals
 - Especially important in sheep ranching
- Canadian Rockies: Wood products economic cornerstone.

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Bureau of Land Management (BLM)



Branch of the US Department of the Interior that administers governmentowned public lands. About 1/8 of the country, mostly in the West and Alaska. Controversy regarding use and leasing. Allows grazing.

Mining

- Miners were the second largest group (after Mormons) to settle the region.
 - Variety of easily mined mineral deposits
 - Numerous mining towns grew near the deposits.
 - Today many serve as tourist attractions
- Mining today.
 - Gold and silver still mined, but less important
 - Copper: most important mineral of the region, esp. in Arizona and Utah
 - Lead and zinc: mined in U.S. but more important in Canada.

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Open Pit Copper Mine Bingham Canyon, Utah



Open pit mining is a means of extracting minerals from the earth by digging a bowl-like pit that gets wider and deeper with use.

It is used where the mineral is near the surface and/or if the ground is not unsuitable for tunneling. 38





Ghost town



Happens because the economic activity that supported it (e.g., mining) has failed (or because of some human or natural calamity forced people to leave the area). A town or settlement that has been abandoned by humans.













