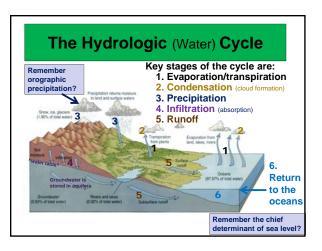


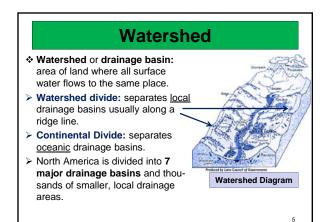
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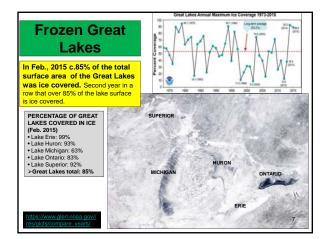
- Hydrogeology the study of water in relation to the regional or local geology.
- Hydrology the study of water movement.
- Surface waters water in rivers, streams, and lakes.
- Groundwater water that has been absorbed by the earth and stored beneath the surface.

3

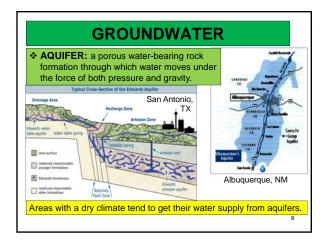


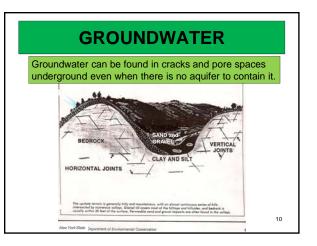


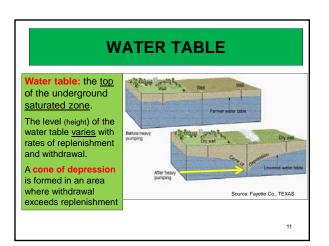


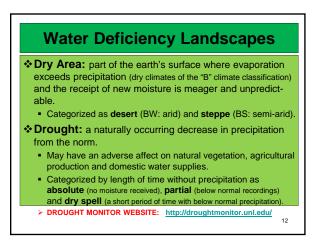


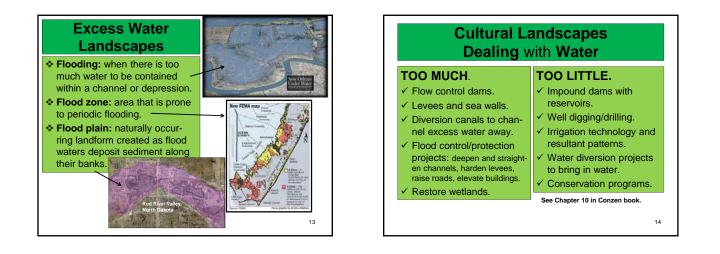


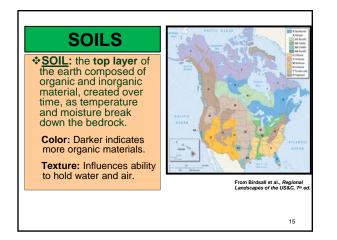


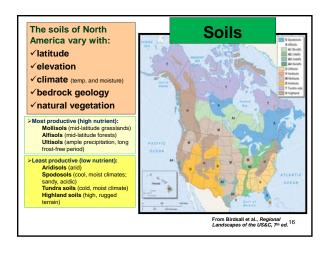






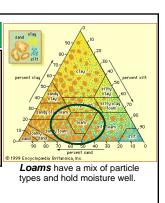




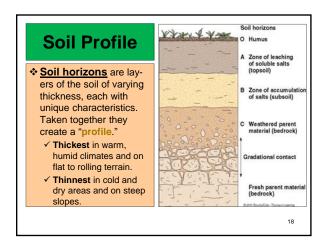


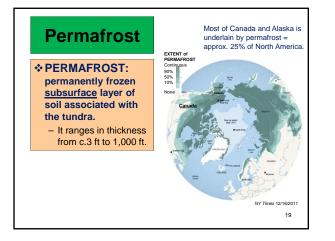
Soil Texture

Combination of sand, silt and clay determines a soil's ability to hold water and transfer gases - an important factor in crop production and one of the contributors to the development of the agricultural landscape.

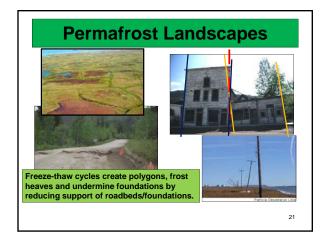


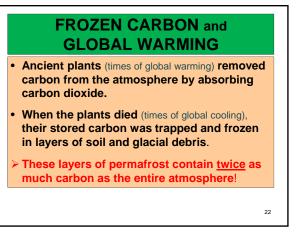
17

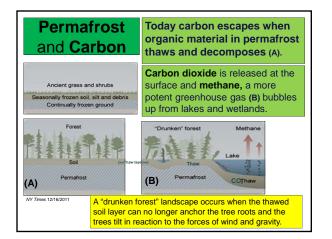


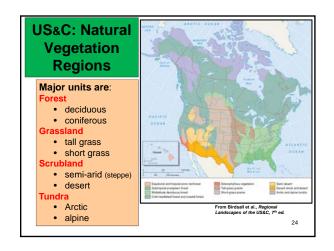








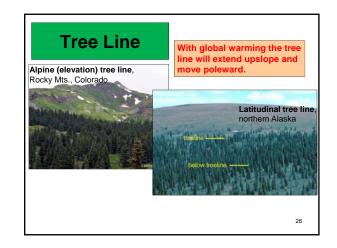




TREE LINE

TREE LINE: The limit of normal tree growth determined by latitude or altitude or moisture. It marks the edge of the area beyond which it is too cold or too dry for trees to grow.

Water availability (isohyet) tree line, Coachella Valley, AZ . (Note location of trees, grasses and barren slopes.)



Climax Vegetation

25

27

- Final stage in the plant community succession based on the habitat.
- Populated by the <u>best</u> species for <u>existing</u> <u>conditions</u>.
- Results from stable climate and soil conditions and protection from human disturbance.
- HOWEVER, once conditions change, new species enter and local vegetation evolves until stability returns.
 - ✓ Global climate change creates instability.
 - ✓ New landscapes are created as a result.

