

APES Unit 5: Land and Water Use

Enduring Understanding

- When humans use natural resources, they alter natural systems.
- Humans can mitigate their impact on land and water resources through sustainable use.

(See Unit 4.1)

1. Tragedy of the Commons
 - a. The tragedy of the commons suggests that individuals will use shared resources in their own self-interest rather than in keeping with the common good, thereby depleting the resources.
2. Clearcutting
 - a. Clearcutting can be economically advantageous but leads to soil erosion, increased soil and stream temperatures, and flooding.
 - b. Forests contain trees that absorb pollutants and store carbon dioxide. The cutting and burning of trees releases carbon dioxide and contributes to climate change.
3. The Green Revolution
 - a. The Green Revolution started a shift to new agricultural strategies and practices in order to increase food production, with both positive and negative results. Some of these strategies and methods are mechanization, genetically modified organisms (GMOs), fertilization, irrigation, and the use of pesticides.
 - b. Mechanization of farming can increase profits and efficiency for farms. It can also increase reliance on fossil fuels.

(See Unit 4.2-4.3)

4. Impact of Agricultural Practices
 - a. Agricultural practices that cause environmental damage include tiling, slash-and-burn farming, and the use of fertilizers.

(See Unit 4.6)

5. Irrigation Methods
 - a. The largest human use of freshwater is for irrigation (70%).
 - b. Types of irrigation include drip irrigation, flood irrigation, furrow irrigation, and spray irrigation.
 - c. Waterlogging occurs when too much water is left to sit in the soil, which raises the water table of groundwater and inhibits plants' ability to absorb oxygen through their roots.
 - d. Furrow irrigation involves cutting furrows between crop rows and filling them with water. This system is inexpensive, but about 1/3 of the water is lost to evaporation and runoff.
 - e. Flood irrigation involves flooding an agricultural field with water. This system sees about 20% of the water lost to evaporation and runoff. This can also lead to waterlogging of the soil.
 - f. Spray irrigation involves pumping groundwater into spray nozzles across an agricultural field. This system is more efficient than flood and furrow irrigation, with only 1/4 or less of the water lost to evaporation or runoff. However, spray systems are more expensive than flood and furrow irrigation, and also require energy to run.
 - g. Drip irrigation uses perforated hoses to release small amounts of water to plant roots. This system is the most efficient, with only about 5% of water lost to evaporation and runoff. However, this system is expensive and so is not often used.
 - h. Salinization occurs when the salts in groundwater remain in the soil after the water evaporates. Over time, salinization can make soil toxic to plants.
 - i. Aquifers can be severely depleted if overused for agricultural irrigation, as has happened to the Ogallala Aquifer in the central United States.
6. Pest Control Methods
 - a. One consequence of using common pest-control methods such as pesticides, herbicides,

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