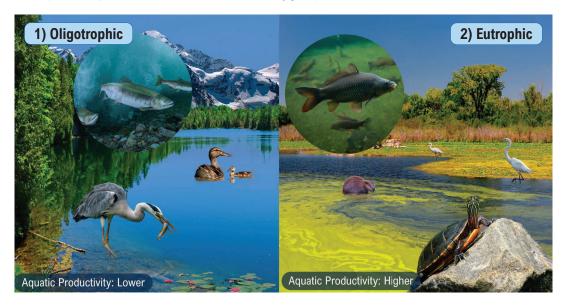
TOPIC: FRESHWATER AQUATIC BIOMES

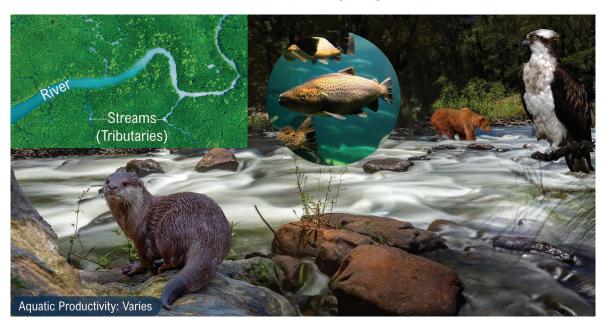
Lakes

- ◆ Lake: a _____ body of freshwater surrounded by land.
 - Can be divided into _____ categories:
 - 1) Oligotrophic Lakes: nutrient-______ but oxygen-_____; tend to have clear, colder water.
 - 2) Eutrophic Lakes: nutrient-rich but oxygen-poor; tend to have ______ plant & algae growth.



Streams & Rivers

- ◆ Bodies of water constantly _____ in one direction, from high to low elevation.
 - Streams: ______ volume, narrower, shallower, shorter, & lower flow rates than rivers.
 - Rivers: ______ volume, wider, deeper, longer, higher flow rate, & more tributaries than streams.



TOPIC: FRESHWATER AQUATIC BIOMES

Wetlands

- ◆ Land permanently or periodically saturated with stationary or slow-moving fresh or salt ______.
 - Includes marshes, swamps, bogs, and fens.
 - Emergent Vegetation: plants growing _____ water surface.



Estuaries

- ◆ Estuary: a coastal *transitional* area between rivers & oceans; contains ______ freshwater & saltwater.
 - Denser saltwater occupies the bottom, while lower density river water is at the surface.



TOPIC: FRESHWATER AQUATIC BIOMES

EXAMPLE

In which of the following aquatic biomes would you expect to find organisms that can tolerate both saltwater & freshwater?

a) Lakes.

c) Riverine wetlands.

b) Estuaries.

d) Streams.

PRACTICE

Which of the following is a characteristic of oligotrophic lakes?

a) Murky water.

c) Summer turnover.

b) Dense vegetation.

d) Relatively low biomass & primary productivity.

PRACTICE

What is the most significant physiological barrier for an aquatic organism traveling through an estuary?

a) Change in water temperature.

c) Changes in light availability.

b) Change in water salinity.

d) Change in water O_2 concentration.