

Freshwater Biomes

Includes lakes, rivers, streams, swamps, ponds, springs.

All fresh water biomes

▪ Important abiotic factors are:

- _____ of the water

-Dissolved _____

- _____

-Penetration of _____

Lakes & Ponds

▪ Eutrophication – _____ from fertilizers & feces cause the _____ to “bloom” which robs _____ from the water and kills the lake.

All bodies of fresh water are threatened by:

▪ Exotic species = plants/animals that are _____ to the area.

▪ Invasive species = an _____ species that takes over in a new environment, often causing many other species to die in that area.

▪ How do they get there?

-Dumping of pets no longer wanted

Examples: _____

-Stocking lakes with fish for food

Example: _____

-Ballast water = _____

Example: _____

Marine Biomes

Pollution

_____ % Sewage

_____ % Farm runoff

_____ % Air Pollution

_____ % Maritime transportation

_____ % Industrial wastewater

_____ % Offshore oil

_____ % Litter

Nutrient waste

▪ _____ and _____ are nutrients (fertilizers) from sewage, agricultural run-off, and residential fertilizers that cause dead zones

Dead Zones

- Dead Zones are _____ areas in the oceans caused by excess _____ that triggers a phytoplankton explosion.
- Fish _____
- Now _____ dead zones around the world.

Fish Diseases

- Liver and skin cancer due to _____.
- Lesions caused by a _____ that thrives when _____ is lowered near rivers dumping excess _____ into ocean.

Cruise Ship Waste

- Cruise ships dump untreated _____.
- _____ out – no enforceable laws

Plastic Trash

- More than _____ seabirds & _____ mammals & seabirds die from plastic.
- _____ – the _____ keep the trash circling out in the middle of the ocean.
- 2x the size of _____.
- _____ deep.
- _____ tons of trash
- Migration routes of _____ pass directly through the garbage patch.
- Seabirds eat the _____ trash and die of _____.

Overfishing

- Overfishing is the harvesting of _____ than can be replaced by _____.
- Has led to the targeting of _____
- We are now taking the smaller fish which are _____.
- Over _____ are killed off the coast of Japan every year.
- Japan eats _____ of the worlds tuna.
- The number of adult tuna capable of spawning has dropped to _____

Fish Farming

- _____ are caught and dragged to fish pens.
- The fish are _____ until they are big enough to harvest.
- Crowding increases _____ and concentrated _____ along the coasts.

Global Warming

- Rising temperature threaten delicate _____ (the base of the food web)

Ocean Acidification

- Increase _____ in air absorbed in water makes it _____.
- Acidic water prevents mollusks from _____.

Coral Bleaching

- When coral are sick or under stress they expel their symbiotic algae making the coral appear colorless.