

## Marine Dead Zones







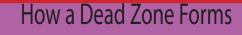






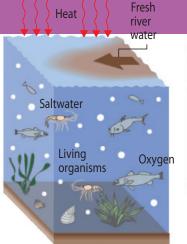




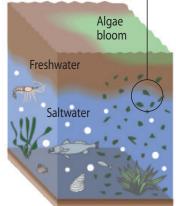


Dead

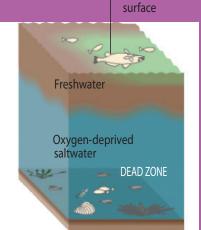
algae



During the spring, sun-heated freshwater runoff from the River creates a barrier layer in the Gulf, cutting off the saltier water below from contact with oxygen in the air.



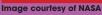
Fertilizer and sewage in the freshwater layer ignite huge algae blooms. When the algae die, they sink into the saltier water below and decompose, using up oxygen in the deeper water.



Some dead fish float to

Starved of oxygen the deeper water becomes a dead zone. Fish avoid the area or die in massive numbers.









## Invasive Aquatic Species to North America





Sea Lamprey

Water Hyacinth

Zebra Mussels

**Asian Carp** 

Purple Loostrife

**Round Goby** 





(Where salt and fresh water meet)









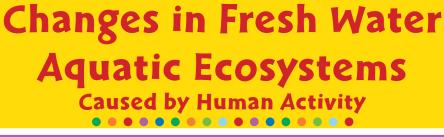
















Waste from Livestock

**Commercial Waste** 

Residue from a

**Over Fishing** 

**Power Station** 

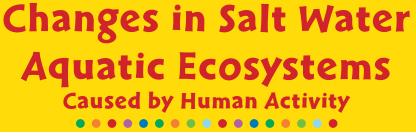
**Discarded Trash** 



Industrial Harbor









Abandoned Sea Nets

Dynamite Blasted Coral Reefs Fertilizer Leaching





**Costal Dead Zones** 

Abandoned Ship Wrecks

**Marine Debris** 

## How Long Does Trash Last in our Aquatic Ecosystems?





- Aluminum Can 200-500 Years
- Apple Core 2 Months
- Mylar Candy Wrapper Forever
- 4 Battery 100 Years
- Glass Jar Forever
- 6 Latex Balloon 6 Months
- Fishing Hook 100 Years
- 8 Milk Jug Forever
- 9 Tin Can 80–100 Years
- Water Bottle Forever
- Plastic Can Holder Forever
- Plastic Bag Forever
- Leather Sandal 40–50 Years
- Rubber Ducky
  Forever
- Beach Ball Forever