

"The Value of the World's Ecosystem Services", Costanza et. al., *Nature* (1997).

Refer to Table 1

1. Read each of the ecosystem services, their functions, and examples.
2. Which of the ecosystem services do you think has the greatest dollar value? Why?

Refer to Table 2

3. The total value of all of the Earth's ecosystem services is estimated to be \$33 trillion per year. What does this mean?

4. Which of the ecosystem services is the most valuable world-wide?

5. On a scale of 1-17, where did your prediction in #2 rank in world-wide \$ value.

6. Why is water supply ranked 5th in value when it is the resource that we can't go long without? What factors could result in an increase in the value of this service?

7. Complete the following table:

Biome	Top 3 Ecosystem Services	Total Value (\$ / acre / year)	Total Global Value (trillions of \$ / year)
Open Oceans			
Coastal Oceans			
Tropical Forests			
Temperate Forests			
Grasslands			
Wetlands			
Swamps/Floodplains			
Lakes/Rivers			