



Modeling Marine Ecosystems With Virtual Reality: Ocean Food Web Module Worksheet #5

Predator and Prey Biomass Relationships

This worksheet uses data collected previously for worksheets #2 and #4. You do not need to collect any new data to complete this worksheet. Write in your estimates based on the previously collected data.

If the biomass of herring in the Gulf of Maine **increased** by 100,000 tons (from 700,000 up to 800,000), what would you expect to happen to the biomass of cod? Record your estimate in the table below.

Organism	Starting Biomass (metric tons)	New Biomass (metric tons)
Cod	70,000	
Herring	700,000	800,000

If the biomass of sardines along the West Coast **dropped** by 500,000 tons (from 1 million to 500 thousand), what would you expect to happen to the biomass of sea lions? What would you expect to happen to the biomass of orcas? Record your estimates in the table below.

Organism	Starting Biomass (metric tons)	New Biomass (metric tons)
Orca	1,000	
Sea Lion	70,000	
Sardine	1,000,000	500,000