# Video 10 Scatterplots

1. What is a manatee? *It is an herbivorous marine mammal.*

2. What does a scatterplot show about the relationship between the number of powerboats registered in Florida and the number of manatees killed by powerboats? *Their tendency to hang out just under the water's surface, can put them in danger of motorboats propellers. The scatterplot can show the relationship between the motorboat propellers and manatee fatalities. The number of deaths and number of motor registrations are both quantitative variables. They can be measured numerically and can plot the values using both variables instead of just one variable. You aren't able to use one variable with a scatterplot but can use it when you have two variables to see its relationship.*

3. Why is the number of boats plotted on the horizontal axis of this scatterplot? *It is the explanatory variable. The number of boats is the reason why there are many manatee killings, so the horizontal axis is the explanatory variable. The explanatory axis always goes on the horizontal axis. The response variable which is the number of manatees killed is the vertical axis.*

4. What trend would you expect to see in a scatterplot of two variables that have a negative association? *It is when one variable increase when the other decreases. Whereas positive association is if one variable increases, so does the other variable increase.*