

**Scenario: Female Horseshoe Crab Study**

Suppose you are a researcher monitoring the population of horseshoe crabs in Delaware Bay. These crabs provide a critical food source for migrating birds. Each year during May and June, hundreds of thousands of horseshoe crabs emerge from the bay to lay and fertilize their eggs.

Each female horseshoe crab has a male crab resident in her nest. Some females also have other males, called satellites, residing nearby. You want to assess the factors affecting whether the female horseshoe crab has satellites and if so, how many.

The table shown here lists all of the variables in the crab data set. The response variable in your study is the number of satellites. To view more information about the crab data set, click the Information button.