

22S:30/105, Statistical Methods and Computing

Instructor: Cowles

Spring 2009, Homework 10

This homework does not need to be turned in. It will provide practice for the final exam on topics not included in the 3 midterms. I will post solutions.

Use SAS to get the needed numeric results. Answer all parts of all questions.

1. Textbook problems 7.37, 24.27, 24.29

The data on prey and predators is on the course web page in a dataset called “preypred.dat.”

2. Why are the points in the scatterplot you produced for problem 7.37 arranged in vertical lines?
3. Use SAS to calculate the 90% confidence interval requested in problem 24.29. In addition, use SAS to obtain a 90% confidence interval for the mean proportion of perch that would be killed if 40 perch were available.
4. Textbook problems 26.16, 26.17, 26.25. Use SAS to perform the required statistical tests. You do *not* have to calculate any test statistics by hand.

The data on the survey regarding safety of food from fairs and restaurants is on the course web page in a dataset called “foodsafety.dat.”

NOTE: Chapter 26 is available online on the textbook web page (for which there is a link on the course web page under “Web resources”).