

The fifth assignment includes several problems that application and analysis of multiple regression models.

1. Chapter 10, problems 9–10 (page 294–295). These two problems give you practice with the ideas in the notes I sent out about extra-sums-of squares F-tests and reading output from statistical software packages.
2. Chapter 10, problem 17 (page 297). This problem looks at fitting progressively higher order polynomials to the Galileo case study and examines what happens to  $R^2$  and to adjusted  $R^2$ . (We'll set this one up in class.)
3. Chapter 10, problem 23 (page 298). The flies return.
4. Chapter 10, problem 28 (page 300). A fascinating problem about hurricanes. (We'll get started on this one in class.)
5. Read Chapter 10 of the textbook. If you have not already done so, write out brief answers to the Conceptual Exercises at the end of the chapter. Compare your responses with those given by the authors a few pages later. You do not need to turn in anything for this question.