

**Applied Regression Writing Component**  
**Assignment 4**  
**Project Report**  
**STAT 1223 Dr. Bodenschatz Spring 2019**

**Assignment 4 Due in class on Apr 10. 45 Points Possible.**

Write the final report for your statistical study or experiment using data you collected or acquired from a reputable source.

Your final report should include:

- An abstract.
- An introduction, body, conclusion, and summary.
- A statement of the background and purpose of the study.
  - Why did you undertake the study?
  - Why are the results interesting/important?
  - What action should be taken as a result?
- A discussion of the data of interest.
  - What individuals do the data describe?
  - How many variables do the data contain?
  - What are the definitions and units of measurement of the variables?
  - What types of variables are involved: categorical, quantitative, etc.?
- An analysis of how you obtained the data.
  - If you collected the data yourself, describe your population of interest and your sampling method.
  - If you used existing data, describe the source and discuss its suitability for use in a statistical study.
  - How many individuals appear in the data? How did you determine this sample size? What issues did you consider?
- A discussion of the statistical methods you employed to analyze the data and to answer your questions of interest.
  - Present exploratory data analyses for the pertinent variables.
  - What quantities or parameters did you estimate?
  - What hypotheses did you test?
  - What relationships did you explore/test?
- The conclusions you can make from your analyses.
  - Which tests were statistically significant?
  - What statistical model best predicts the response variable (if appropriate)?
- Recommendations for further study.

Your final report should:

- Be typed and double spaced.
- Be grammatically correct (check grammar, spelling, punctuation, etc.).
- Contain any necessary references.

Attach this sheet (with the reverse side on top) to the front of your assignment.

**ALSO ATTACH** your graded Assignment 2 (Project Proposal) AND your graded Assignment 3 (Progress Report) with the grader's comments / suggestions.

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**Name** \_\_\_\_\_

**Grading Criteria:**

<b>Criterion</b>	<b>Points Possible</b>	<b>Points Earned</b>
Abstract	5	
Includes an informative statement of purpose	4	
Discusses data of interest	3	
Thoroughly explains how data were collected and/or how the quality of the data was determined	3	
Explains statistical methods used	5	
Discusses conclusions	5	
Discusses recommendations for further study	4	
Summarizes the project	4	
Overall flow, word choice, and writing style	4	
Grammatically correct – spelling, punctuation, etc.	2	
Follows format (typed, double-spaced, references, etc.)	2	
Overall impression and quality	4	
<b>Total Score</b>	<b>45</b>	