

CJ 405
FA 01
Homework assignment
Due: 10/22

You want to review all your written materials and in-class exercises on simple regression, including the descriptive material, as well as the material on hypothesis testing.

In next class (10/22) you will be presented with printout from a few different simple regression models. There will be at least one but no more than two models from the GIA data set; there will be at least one but no more than two models from the US ecological data set. I will give you the metric for each variable in each problem.

You will be asked to do the following for the problems you address (I may not ask you to do ALL of the following for each problem)

Interpret the b weight
Interpret the constant
Interpret the R squared
Interpret the adjusted R squared

State the null hypothesis for the statistical test of the R squared
State the alternate hypothesis for the statistical test of the R squared
Interpret the F test of the R squared (I will give you an F critical value and the alpha level)

State the null hypothesis for the statistical test of the b weight
State the alternate hypothesis for the statistical test of the b weight (I will tell you if one or two tailed and if one tailed which direction)
Interpret the t test of the b weight

I will be extremely reluctant, in keeping with the published guidelines about makeups, to give a makeup quiz to anyone who has NOT a) contacted me beforehand and b) has an excellent, serious and compelling excuse along with written documentation.