

Assignment 2

Due: no later than end of class on Friday, March 6

A study of pollution levels in Paradise Creek, Moscow, was made a few years ago. At the time, what is now the Sweet Avenue Blue parking lot was a plot of land that had been highly contaminated by a fertilizer plant. The creek was sampled for ammonia at three locations: (1) upstream from the plant, (2) at the Sweet Avenue site, and (3) downstream from the plant (near Wicks Field).

The data appear below. Your assignment is to conduct an analysis of variance using SAS, with pairwise comparisons (Fisher LSD) of means, and model diagnostics. Hand in, **stapled**:

One-page cover sheet with name and typed executive summary of the analysis results, interpreted in your own words. The discussion must include the overall AOV, the results of pairwise comparisons, and the diagnostics

Printed SAS program(s) used to analyze data

Printed AOV table & results from PROC GLM

Printed mean pollution levels and pollution level standard deviations

Printed Fisher LSD pairwise comparisons

Two printed diagnostic plots:
residuals vs. predicted values
residuals vs. normal scores

ammonia	place
0.20	1
0.05	1
0.05	1
0.05	1
0.40	2
0.30	2
0.20	2
0.20	3
0.20	3
0.40	3
0.05	1
0.05	1
0.05	1
0.05	1
0.40	1
0.20	2
0.10	2
0.20	2
0.30	2
0.20	2
0.05	2
0.20	3
0.20	3
0.20	3
0.05	1
0.05	1
0.10	2
0.30	2
0.50	2
0.40	2
0.40	2
0.05	2
0.05	3
0.05	3