

STA 660 – Project 0

25 August 2008

A company was thought to be polluting a local lake by discharging its manufacturing waste into the lake without pre-treatment. To investigate whether the lake was polluted, the EPA took a sample of five measurements from the lake receiving the discharge (Lake #2) and a sample of five measurements from a nearby unpolluted lake (Lake #1). Strontium measurements were recorded for each of the samples.

Data:

Lake #1: 27.2 29.1 33.2 31.4 32.8

Lake #2: 37.4 35.0 41.2 40.6 36.2

Goal:

Determine whether the strontium concentrations are different for the two lakes.

Requirements:

Provide both graphical and numerical summaries as part of your analysis. Line printer plots are NOT acceptable. Use both SAS and R/S-Plus for this analysis. A simple compelling analysis is always more desirable than a complicated assumption-laden analysis.

Reference:

From Dr. Schaefer's STA 660 lab collection