

STAT 445 Lab 2  
ASSIGNMENT # 2  
Due: Lab 3 (at the end)

Judging the success or failure of cloud seeding designed to increase rainfall is an important problem. Let us consider the Florida Area Cumulus Experiment (FACE) conducted in 1975. Copy the datafile

`‘/home/grad/jafar/stat445/assign2.dat’`.

The file is also on the course website. The variables are: rainfall (in  $10^7$  cubic meters), action (1 = seed, 0 = do not seed), suitability (for seeding), and percent (cloud cover in the experimental area, measured using radar).

- (a) Summarize the data, using appropriate tables or plots.
- (b) Perform an appropriate statistical analysis including the corresponding diagnostic analysis.
- (c) State your conclusions clearly.