

## Stat 328 Lab 2 Summer 2005

### Chapter 6 of MMD&S:

Do Problems 6.1, 6.2, 6.3, 6.15, 6.17, 6.18, 6.20, 6.91b

Additional Part for 6.91b: Also make a 95% prediction interval for single additional odor threshold assuming the population of thresholds is normal.

Do problems 6.31, 6.32, 6.33, 6.45, 6.54a, 6.63, 6.91c

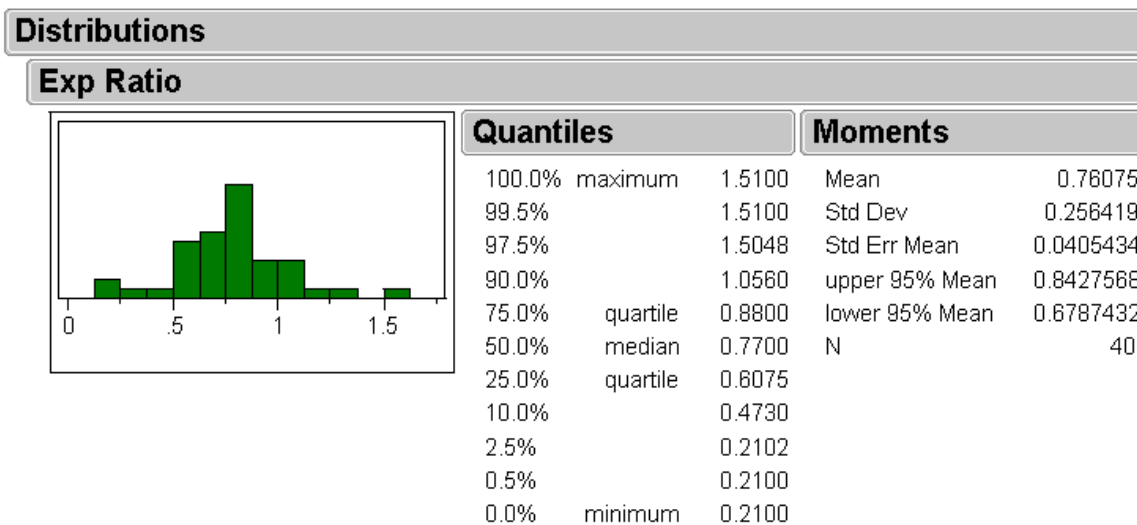
### Chapter 7 of MMD&S:

Do Problems 7.1, 7.2, 7.3, 7.4, 7.5, 7.10, 7.11, 7.23b, 7.25, 7.65, 7.83, 7.84

Additional Part for 7.3: Also make a 95% prediction interval for a single additional monthly rent drawn from this population under the assumption that the population is normal.

Additional Part for 7.23: Also make a 95% prediction interval for the annual earnings of an additional white female worker drawn from this population.

Below is a JMP report on the Expense Ratios of 40 mutual funds in 1991.



Suppose that it is sensible to treat these 40 funds as a random sample of the very large population of mutual funds.

a) Give a 90% confidence interval for the mean expense rate of mutual funds in this year.

b) Judging that the histogram above is reasonably "bell-shaped" it is perhaps sensible to assume that expense rates were normally distributed in 1991. Under this assumption, give an interval that you are "90% sure" would contain one additional rate drawn from this population.