Homework 10
MTH 3240, Spring 2020

Due Fri., May 15

Reading: *Environmental Statistics*:

- Chapter 13 (but Sections **13.13** and **13.19** are **optional**)

Problems: Please do the following problems from the Problems sections of *Environmental Statistics*:

Chapter in *Environmental Statistics*	**Problems**
Ch. 13	13.2* (skip part *h*), 13.3* (skip part *h*)

* For **Problems 13.2** and **13.3**, **parts *a*** through ***e***, you can use the **`lm()`** function in R.

First, read the data from the text file **Ch13Pr2and3Data.txt** into a *data frame* in R using:

```
> my.data <- read.table(file.choose(), header = TRUE)
```

Once you've created the *data frame*, you can carry out the multiple regression analysis by typing:

```
> my.reg <- lm(Smoke ~ Dist + Truck + Auto, data = my.data)
> summary(my.reg)
```

For **Problem 13.3**, replace **`Smoke`** above by **`NO2`**.

You may skip **part *h***, but the estimate of σ is labeled the **`Residual standard error`** in the output from **`summary()`**.

For **part *i***, the R^2 is labeled the **`Multiple R-squared`** in the output from **`summary()`**.