

ass3

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr  0.3.4
## v tibble  3.1.4      v dplyr  1.0.7
## v tidyr   1.1.3      v stringr 1.4.0
## v readr   2.0.1      v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library(readr)
data <- read_csv("~/Desktop/204 R/ASWELLS.csv")

## Rows: 328 Columns: 9

## -- Column specification -----
## Delimiter: ","
## chr (3): UNION, VILLAGE, KIT-COLOR
## dbl (6): WELLID, LATITUDE, LONGITUDE, DEPTH-FT, YEAR, ARSENIC

##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.

data.model=lm(data$ARSENIC~data$LATITUDE+ data$LONGITUDE+data$`DEPTH-FT`)
summary(data.model)

##
## Call:
## lm(formula = data$ARSENIC ~ data$LATITUDE + data$LONGITUDE +
##     data$`DEPTH-FT`)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -134.41  -65.51  -26.85   27.05  469.32
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -8.687e+04  3.122e+04  -2.782  0.00572 **
## data$LATITUDE  -2.219e+03  5.268e+02  -4.212  3.29e-05 ***
```

```
## data$LONGITUDE    1.542e+03  3.731e+02   4.134 4.55e-05 ***
## data$`DEPTH-FT` -3.496e-01  1.566e-01  -2.232 0.02628 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 103.3 on 323 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.128, Adjusted R-squared:  0.1199
## F-statistic: 15.8 on 3 and 323 DF, p-value: 1.308e-09
```