Soil Curve Number Adjustments

This is code to adjust the soil curve numbers for each subcatchment in Wailupe using weighted means.

Eleonore Durand

May 13, 2020

Code Setup

```r
library(tidyverse) #loading in the packages
```

Weighted means for curve numbers

```r
#Load data for curve numbers from final curve numbers code
ind_cn_all<- read_csv("subcatch_2_12_cn.csv") %>%
  filter (curve_numbers_csv_CN != "NA")

all_cn_weighted<- ind_cn_all %>%
  group_by(OBJECTID_1) %>% #grouping by subcatchment and then doing a weighted mean
  summarize(mean_cn= weighted.mean(curve_numbers_csv_CN, PERCENTAGE))

slopes_ind<- read_csv("subcatch_2_12_slope.csv")

slope_weighted<- slopes_ind %>%
  group_by(OBJECTID_1) %>% #grouping by subcatchment and then doing a weighted mean
  summarize(mean_slope=weighted.mean(Slope, PERCENTAGE))

write.csv(all_cn_weighted, file = "subcatch_2_12_cn_weighted.csv")

write.csv(slope_weighted, file = "subcatch_2_12_slope_weighted.csv")
```