

# 1 Data Description

This data was collected on September 20, 2016 along 3 reaches of the Santa Ana River, with 9 observations per reach. Each observation contains the following variables:

## 1.1 Importing Data

The following code was used to import data into rstudio, assign a file path, and create a command to read the csv file.

```
mydataGood= "/home/CAMPUS/vesj2015/Santa-Ana-Sucker-Recovery/Data/Data_TUES_1/AllParameters.csv"
importGood=read.csv(mydataGood)
```

## 1.2 Summary Statistics

The following code was used to generate summary statistics.

```
summary(importGood)
```

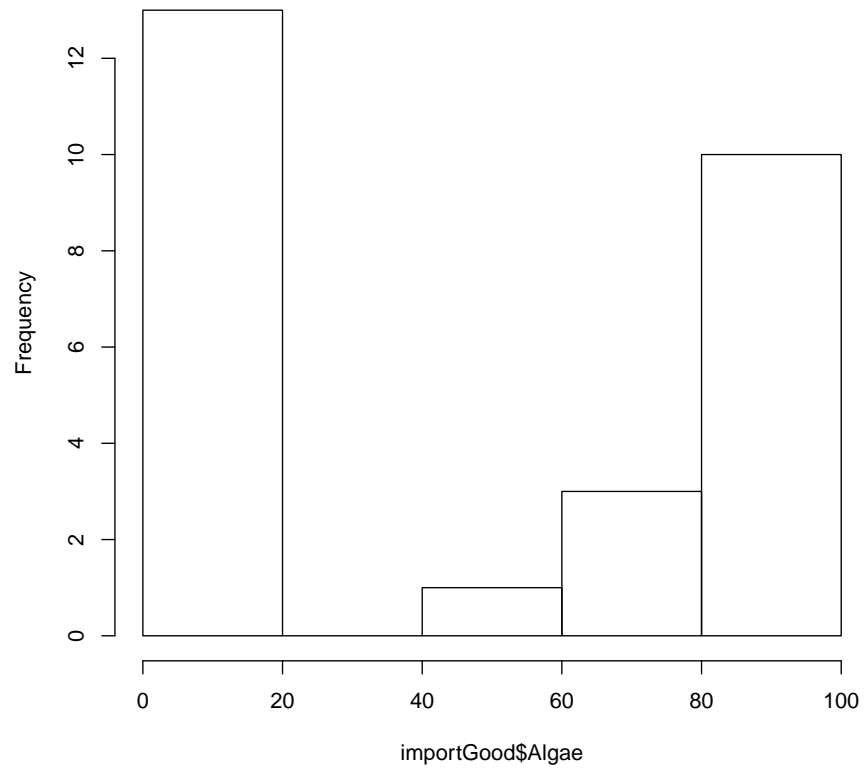
##	ID	Site	Algae	Sediment	Temperature
##	Min.	: 1.0	A:9	Min. : 0.00	Min. :28.00
##	1st Qu.:	7.5	B:9	1st Qu.: 0.00	1st Qu.:29.00
##	Median	:14.0	C:9	Median : 50.00	Median :29.00
##	Mean	:14.0		Mean : 48.52	Mean :28.89
##	3rd Qu.:	20.5		3rd Qu.:100.00	3rd Qu.:29.00
##	Max.	:27.0		Max. :100.00	Max. :30.00
##	Canopy				
##	Min.	: 0.000			
##	1st Qu.:	3.000			
##	Median	:11.000			
##	Mean	: 8.593			
##	3rd Qu.:	14.000			
##	Max.	:15.000			

## 1.3 Distribution

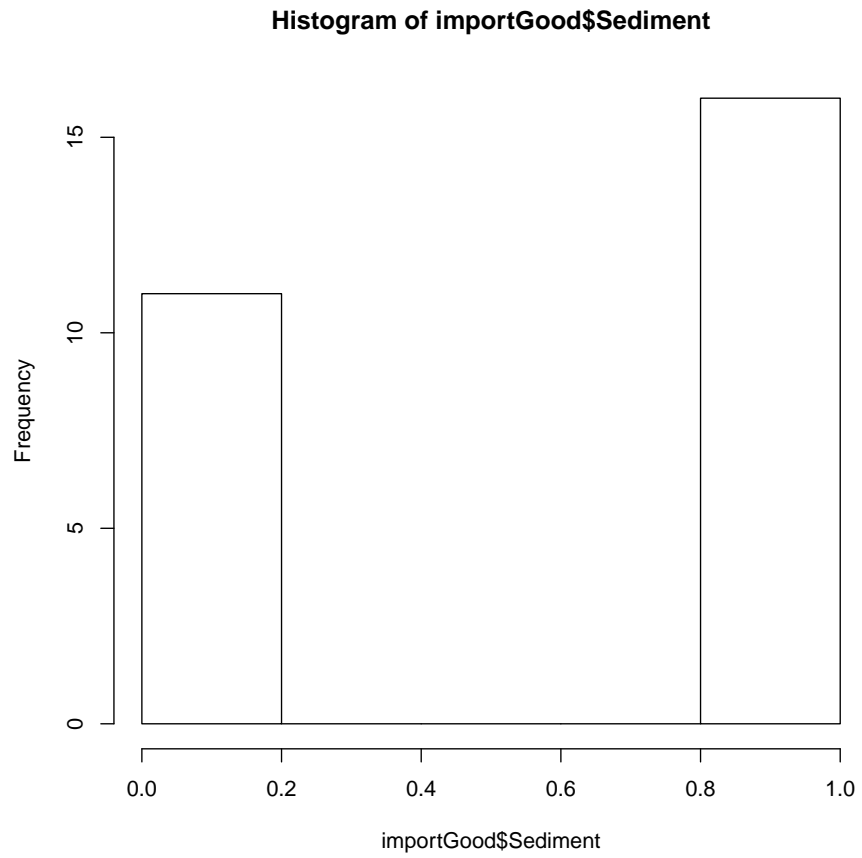
Write some stuff about the summary here...

```
hist(importGood$Algae)
```

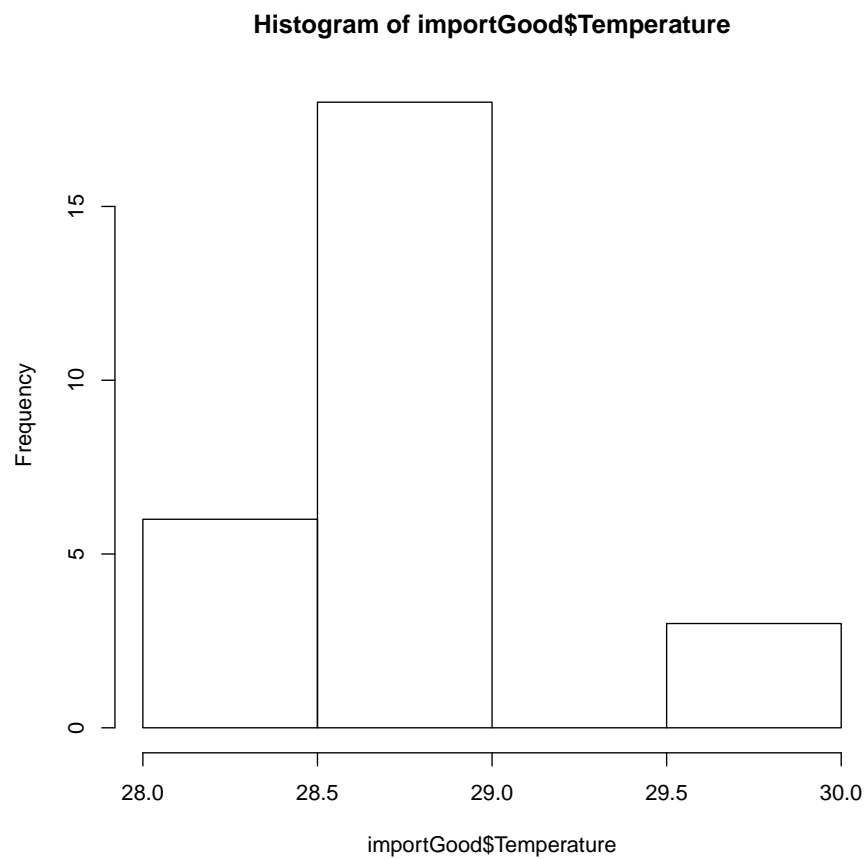
Histogram of importGood\$Algae



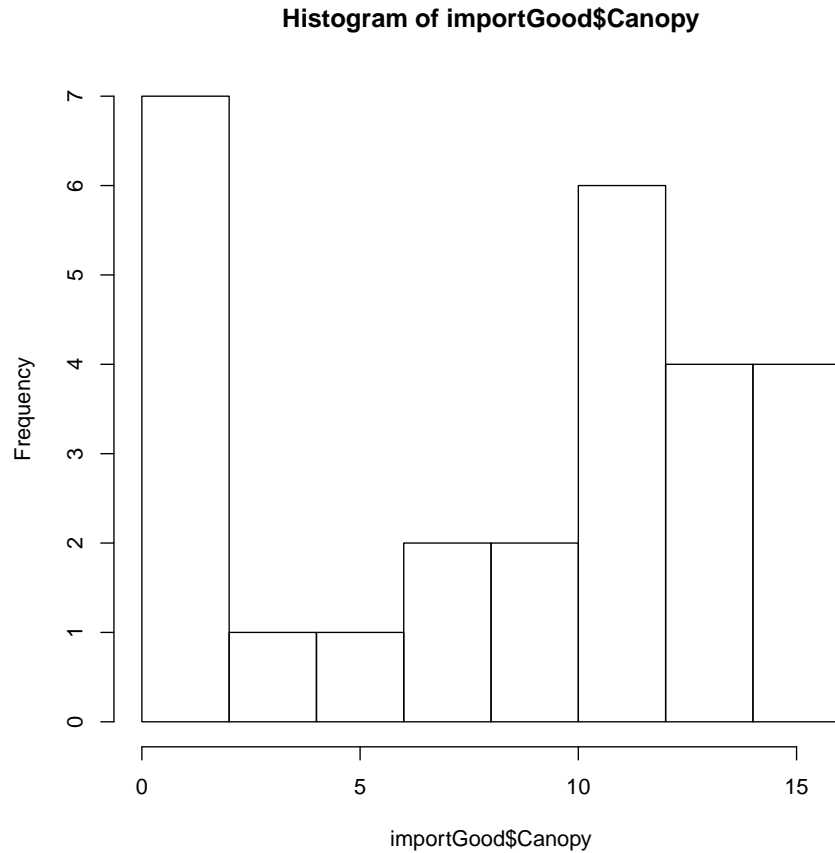
```
hist(importGood$Sediment)
```



```
hist(importGood$Temperature)
```



```
hist(importGood$Canopy)
```



## 2 Bias and Data Limitations

All data collected on one day, Sept. 20, 2016.

Abnormal event (car accident) occurred a few ? days before data collection which caused the RIX treatment plant to temporarily shut off water outlet pipes, effectively draining the river and adversely impacting algae populations to an unknown degree. Therefore our measurements likely reflect less-than-typical algae abundance. Our measurements were taken by undergraduate students without extensive algae fieldwork experience or training.