

1 Data Description

This data was collected in the Rialto portion of the Santa Ana river over a period of ten days for the locations 1, 2, and 4, and seven days for location 3. Location 1 was the plunge pool, located the furthest downstream. Location 2 was where the Rix influx was. Location 3 was upstream below the concrete channel and Location 4 was in the concrete Rialto channel.

1.1 Importing Data

```
> file1 = "/home/CAMPUS/smjx2015/Santa Ana Sucker/Data/Data_Weds_1/Plunge_Pool clipped.csv"
> site1 <- read.csv(file1)
> file2 = "/home/CAMPUS/smjx2015/Santa Ana Sucker/Data/Data_Weds_1/2nd_Site clipped.csv"
> site2 <- read.csv(file2)
> file3 = "/home/CAMPUS/smjx2015/Santa Ana Sucker/Data/Data_Weds_1/3rd_Site clipped.csv"
> site3 <- read.csv(file3)
> file4 = "/home/CAMPUS/smjx2015/Santa Ana Sucker/Data/Data_Weds_1/Concrete clipped.csv"
> site4 <- read.csv(file4)
>
```

1.2 Summary Statistics

Write some stuff about the summary here...

```
> summary(site1)
```

	ID	DateTime	Temp
Min.	: 3.0	10/1/2016 0:14: 1	Min. :27.07
1st Qu.	: 262.8	10/1/2016 0:29: 1	1st Qu.:27.47
Median	: 522.5	10/1/2016 0:44: 1	Median :27.66
Mean	: 522.5	10/1/2016 0:59: 1	Mean :27.74
3rd Qu.	: 782.2	10/1/2016 1:14: 1	3rd Qu.:27.96
Max.	:1042.0	10/1/2016 1:29: 1	Max. :28.66
	(Other)	:1034	

```
> summary(site2)
```

	ID	DateTime	Temp
Min.	: 4.0	10/1/2016 0:00: 1	Min. :27.37
1st Qu.	: 263.8	10/1/2016 0:15: 1	1st Qu.:27.66
Median	: 523.5	10/1/2016 0:30: 1	Median :27.86
Mean	: 523.5	10/1/2016 0:45: 1	Mean :27.94
3rd Qu.	: 783.2	10/1/2016 1:00: 1	3rd Qu.:28.06
Max.	:1043.0	10/1/2016 1:15: 1	Max. :30.76
	(Other)	:1034	

```
> summary(site3)
```

	ID	DateTime	Temp
Min.	: 4.0	10/1/2016 0:03: 1	Min. :25.12
1st Qu.	:176.2	10/1/2016 0:18: 1	1st Qu.:26.68
Median	:348.5	10/1/2016 0:33: 1	Median :27.37
Mean	:348.5	10/1/2016 0:48: 1	Mean :27.46
3rd Qu.	:520.8	10/1/2016 1:03: 1	3rd Qu.:28.16
Max.	:693.0	10/1/2016 1:18: 1	Max. :30.25
	(Other)	:684	

> summary(site4)

	ID	DateTime	Temp
Min.	: 3.0	10/1/2016 0:02: 1	Min. :25.90
1st Qu.	: 262.2	10/1/2016 0:17: 1	1st Qu.:27.37
Median	: 521.5	10/1/2016 0:32: 1	Median :27.91
Mean	: 521.5	10/1/2016 0:47: 1	Mean :28.03
3rd Qu.	: 780.8	10/1/2016 1:02: 1	3rd Qu.:28.66
Max.	:1040.0	10/1/2016 1:17: 1	Max. :31.37
	(Other)	:1032	

1.3 Distribution

Write some stuff about the summary here...

```
> hist(site1$Temp)
> hist(site2$Temp)
> hist(site3$Temp)
> hist(site4$Temp)
```

2 Bias and Data Limitations

Write some stuff about the summary here...