

# WFA Soccer Stats Report

March 10, 2018

Report on the WFA soccer team.

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# 1 Data file format

## 1.1 File Location

The incoming data file *soccerstats.csv* is found in this directory.

## 1.2 File format

I have included a snippet from the data file below (it contains 21 fields):

```
Opponent,Date,Weather,GameType,Field,1GU,1GO,2GU,2GO,1ShU,1ShO,2ShU,2ShO,1CU,1CO,2CU,2CO,1SaU,1SaO,2SaU,2SaO
FC Surge Edmonds,6-Jun-2016,Breezy and overcast,Tournament,Turf -- good condition,5,0,2,1,15,1,6,7,0,1,0,2,1,6,3,2
```

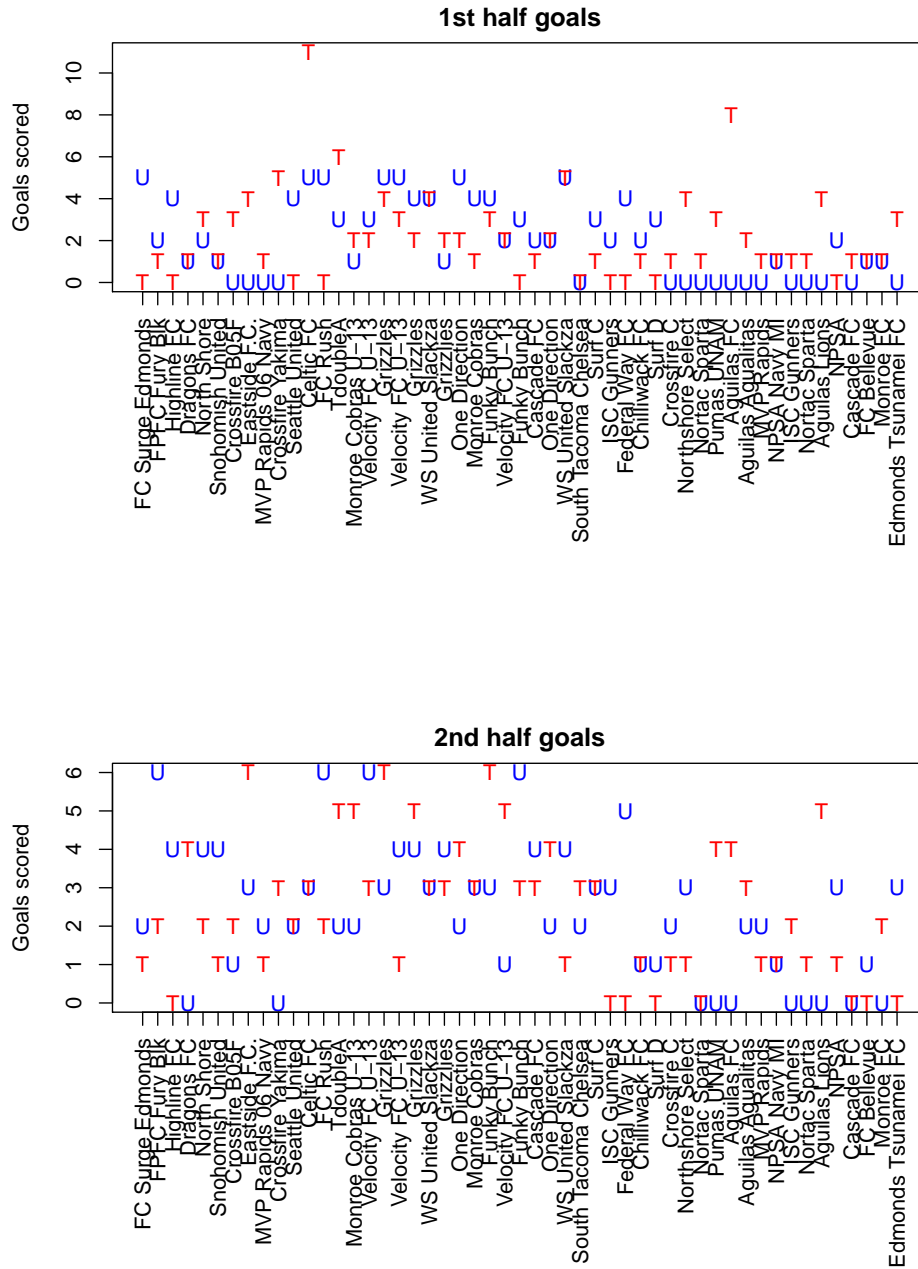
Data dictionary for the *CSV* file follows:

Field	Description	Type
<b>Opponent</b>	Who did we play?	Freeform text
<b>Date</b>	When did we play?	dd-mmm-YYYY (e.g. 12-Mar-2050)
<b>Weather</b>	What was the weather like?	Freeform text
<b>Gametype</b>	What kind of game was it?	Categorical data(Friendly,Tournament,League,Grudge match)
<b>Field</b>	How was the field?	Freeform text
<b>1GU</b>	1st half goals us	whole number $\geq 0$
<b>1GT</b>	1st half goals them	whole number $\geq 0$
<b>2GU</b>	2nd half goals us	whole number $\geq 0$
<b>2GT</b>	2nd half goals them	whole number $\geq 0$
<b>1ShU</b>	1st half shots us	whole number $\geq 0$
<b>1ShT</b>	1st half shots them	whole number $\geq 0$
<b>2ShU</b>	2nd half shots us	whole number $\geq 0$
<b>2ShT</b>	2nd half shots them	whole number $\geq 0$
<b>1CU</b>	1st half corners us	whole number $\geq 0$
<b>1CT</b>	1st half corners them	whole number $\geq 0$
<b>2CU</b>	2nd half corners us	whole number $\geq 0$
<b>2CT</b>	2nd half corners them	whole number $\geq 0$
<b>1SaU</b>	1st half saves us	whole number $\geq 0$
<b>1SaT</b>	1st half saves them	whole number $\geq 0$
<b>2SaU</b>	2nd half saves us	whole number $\geq 0$
<b>2SaT</b>	2nd half saves them	whole number $\geq 0$
<b>Addenda</b>	Any additional info	Freeform text

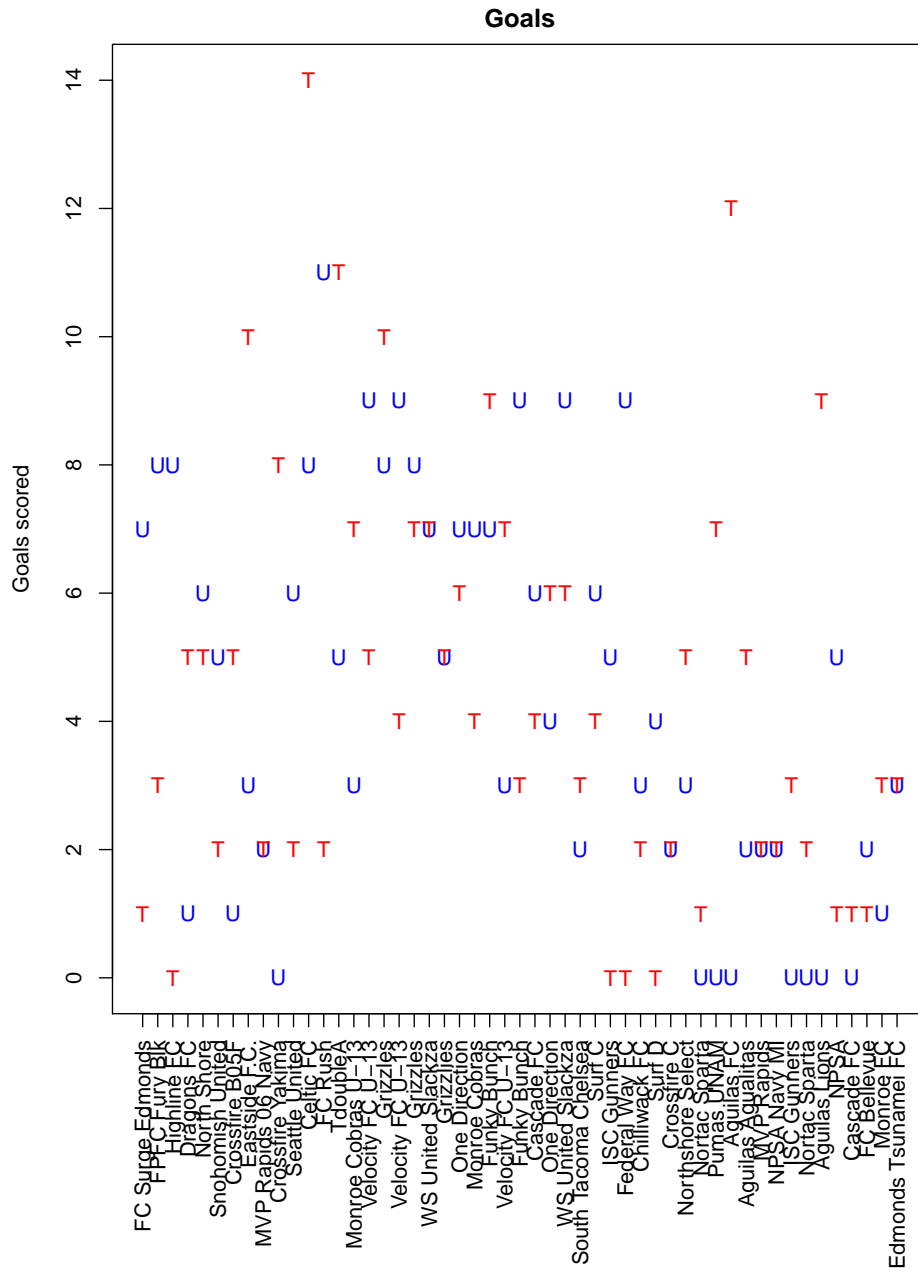
**NB:** Since indoor soccer does not have corners, the *CSV* file needs to be correctly edited for indoor games. Indoor matches are removed from graphing and calculations when the *Weather* column is set to *Indoor* and if the 4 corner fields—*1CU*, *1CT*, *2CU*, and *2CT*—are set to empty.

## 2 Goals

### 2.1 Halves

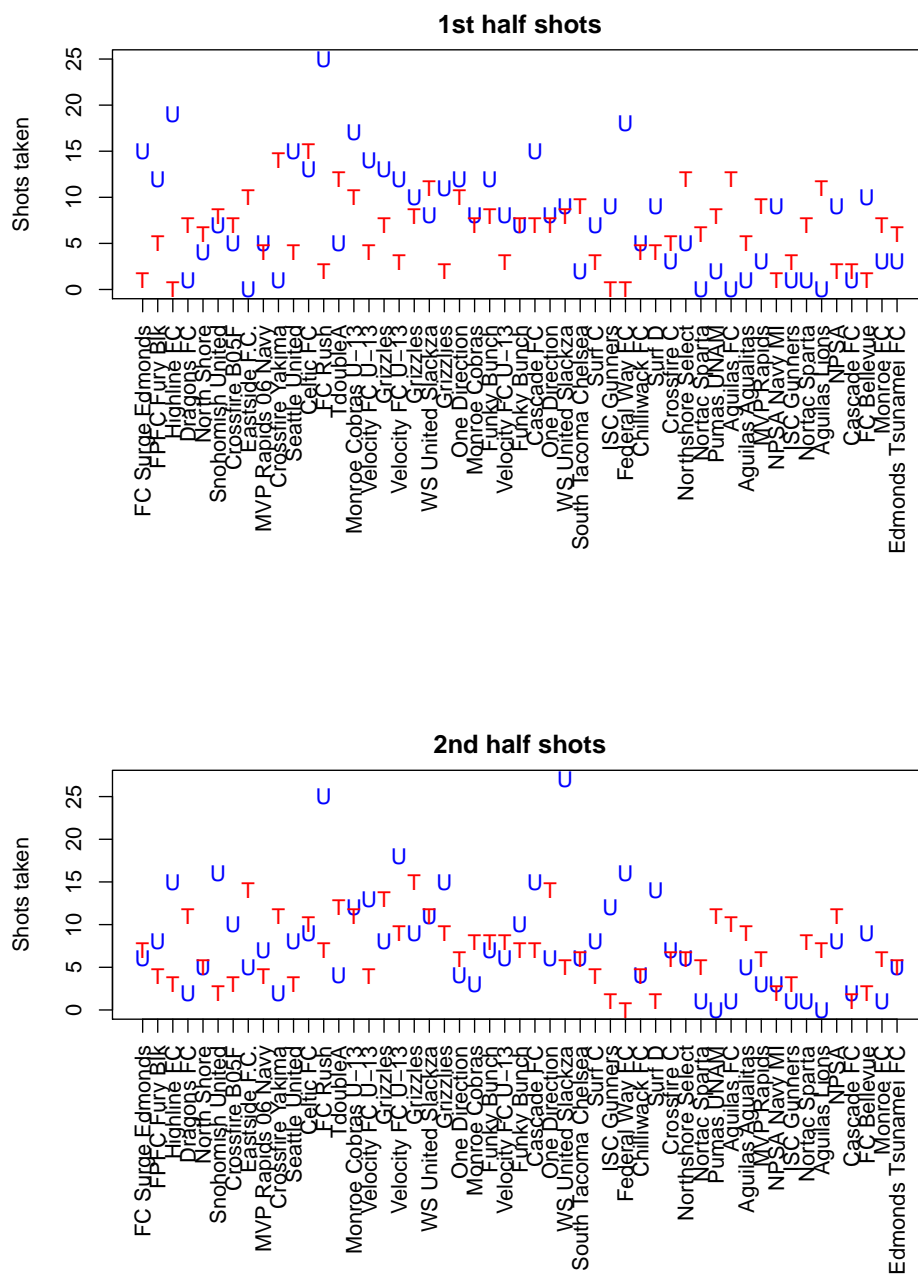


## 2.2 Total

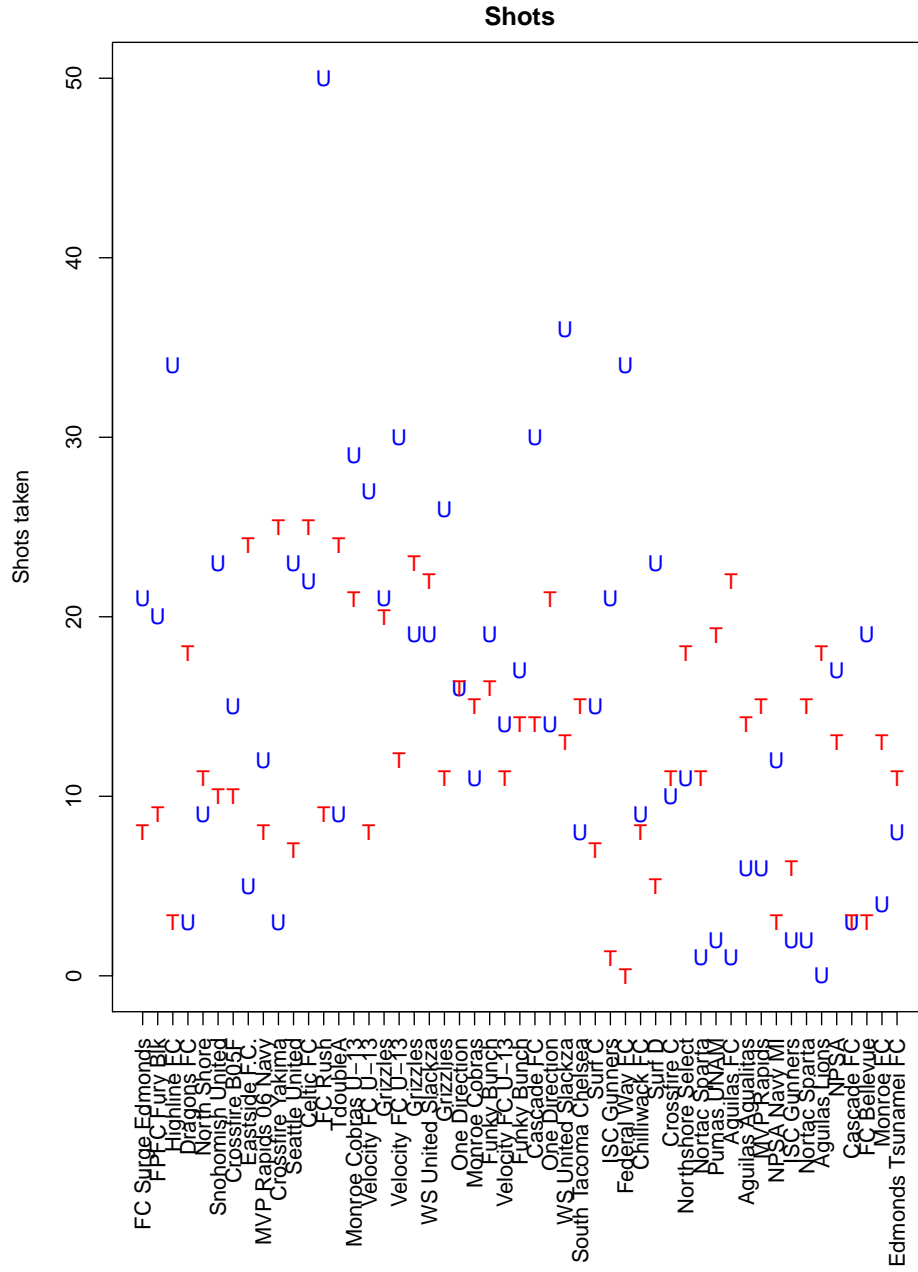


### 3 Shots

### 3.1 Haves

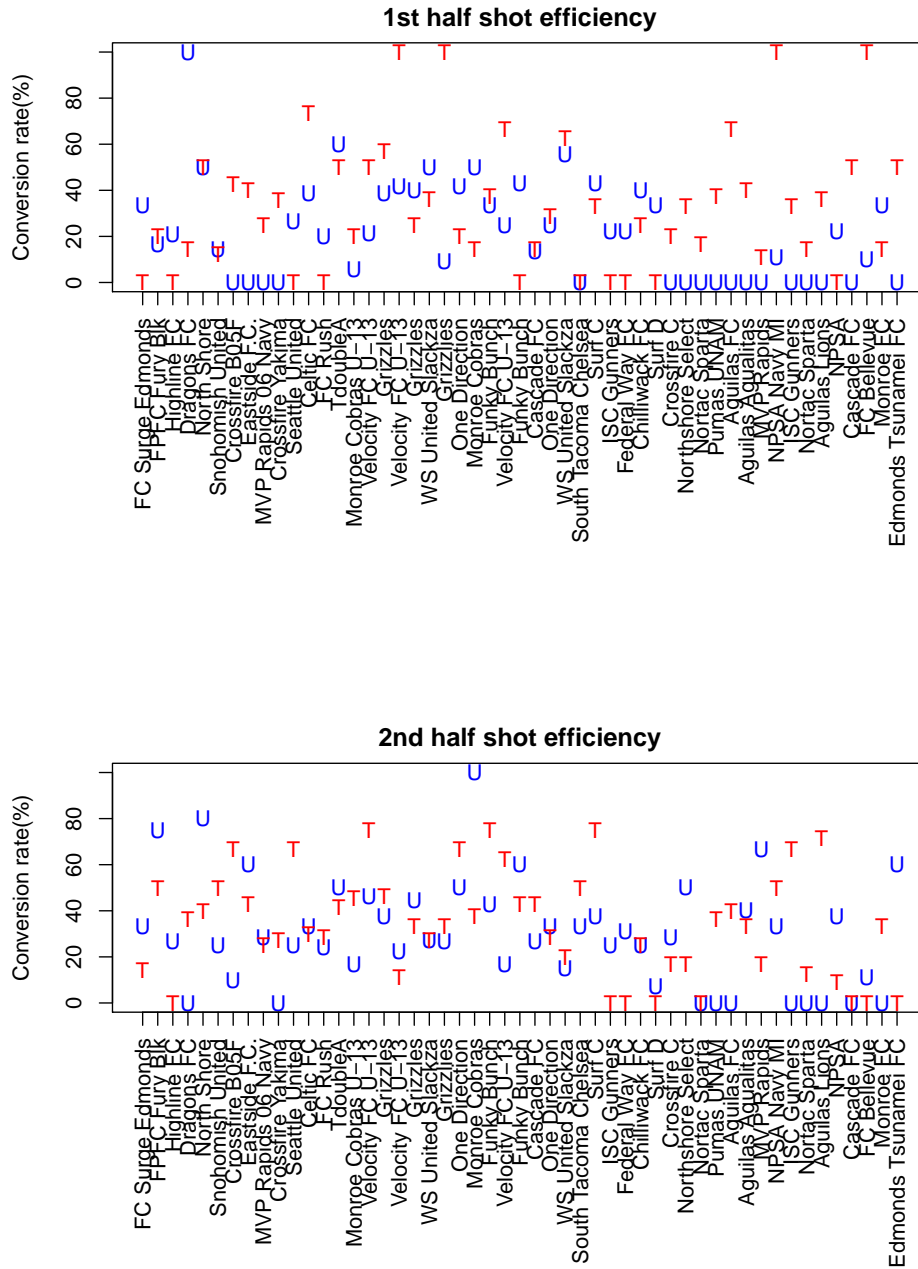


### 3.2 Total



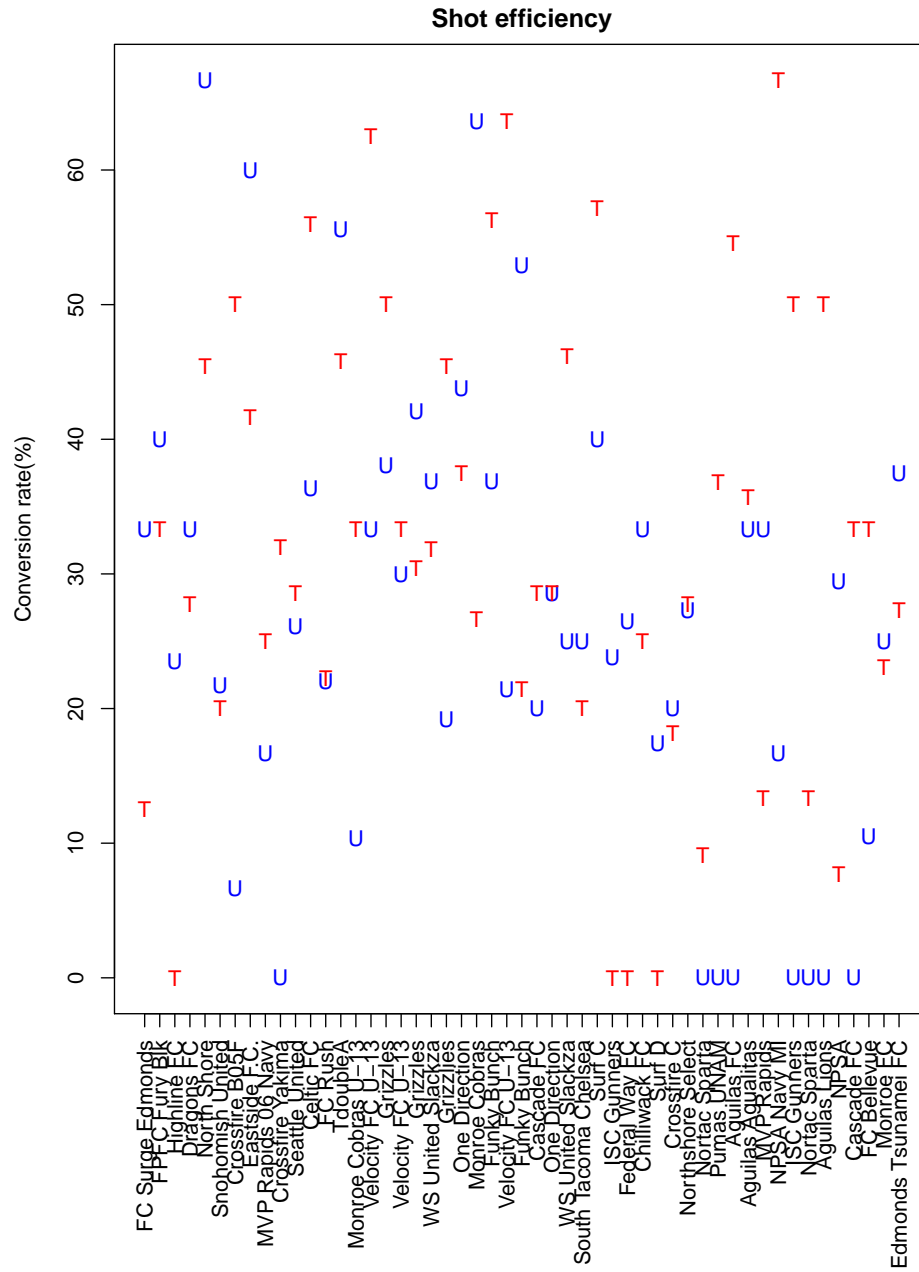
## 4 Shot Efficiency

### 4.1 Halves



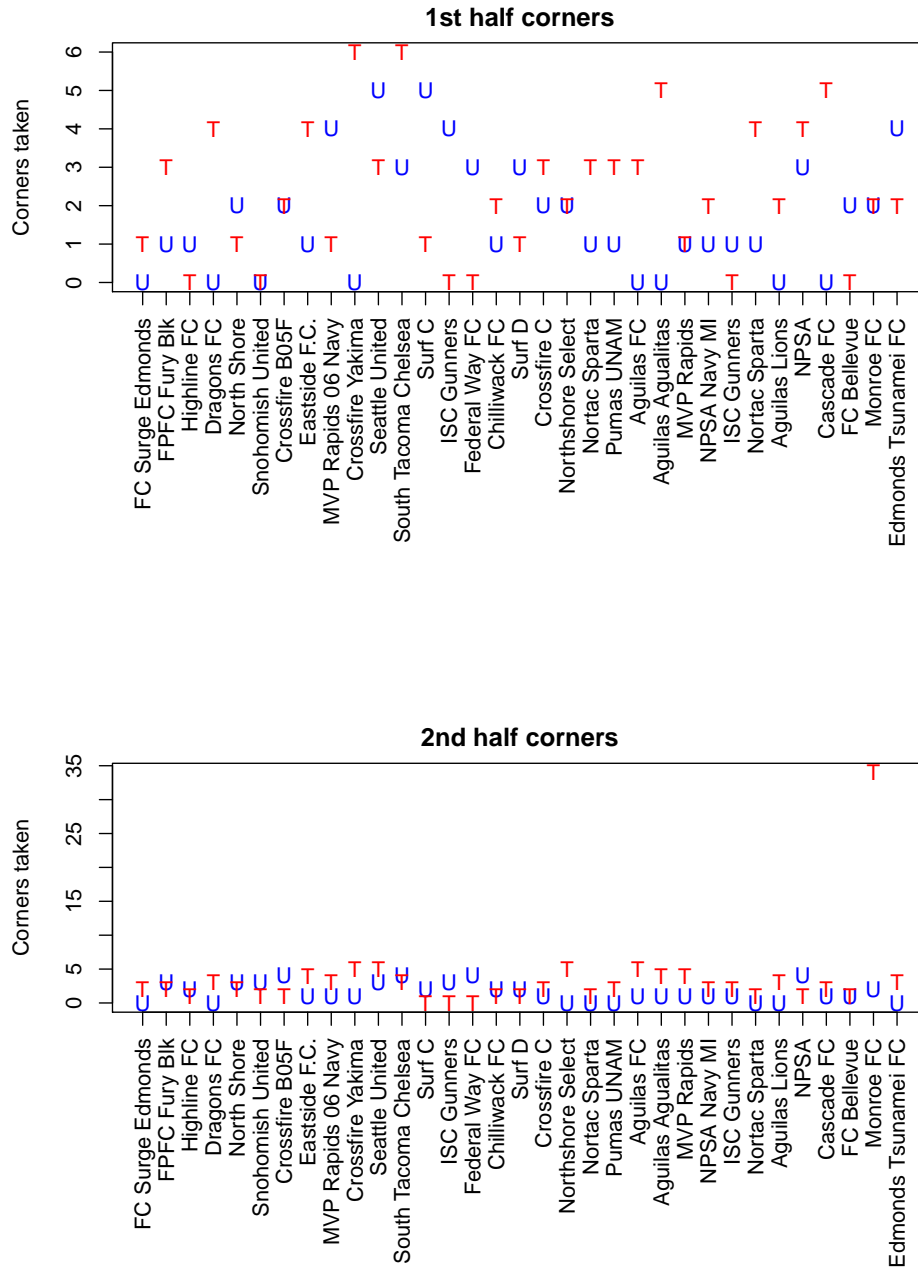


## 4.2 Total

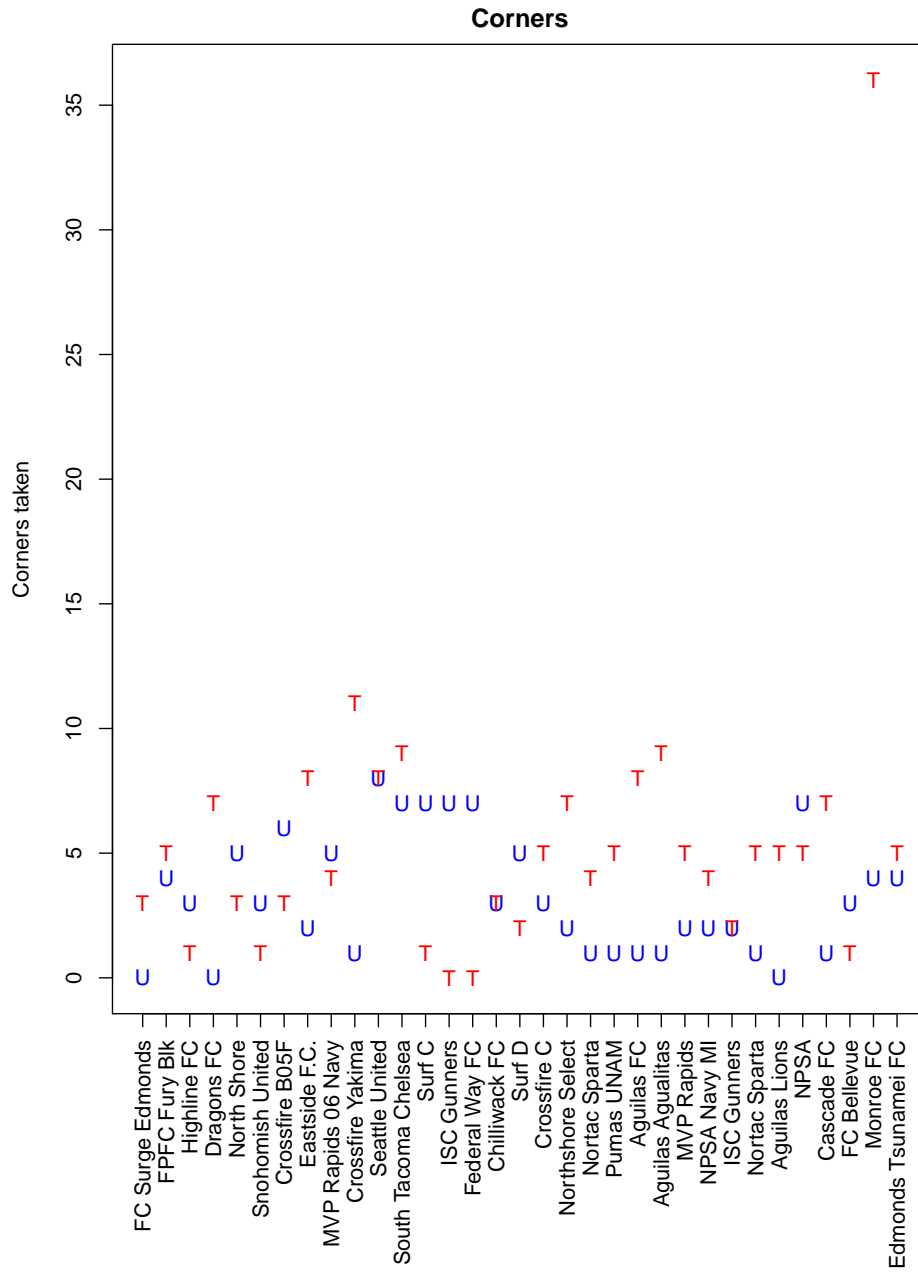


## 5 Corners

### 5.1 Halves



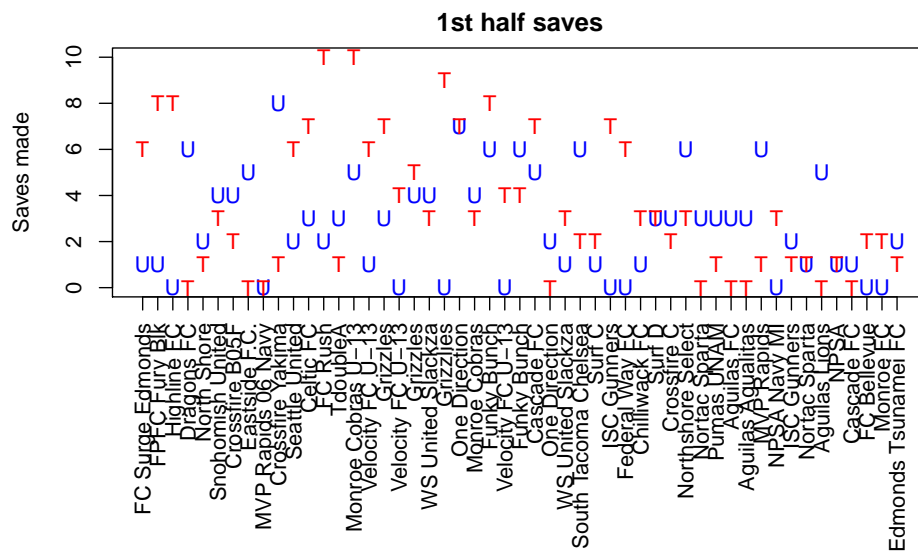
## 5.2 Total



## 6 Saves

### 6.1 Halves

```
## Error in plot.window(...): need finite 'ylim' values
```



## 6.2 Total

```
## Error in plot.window(...): need finite 'ylim' values
```

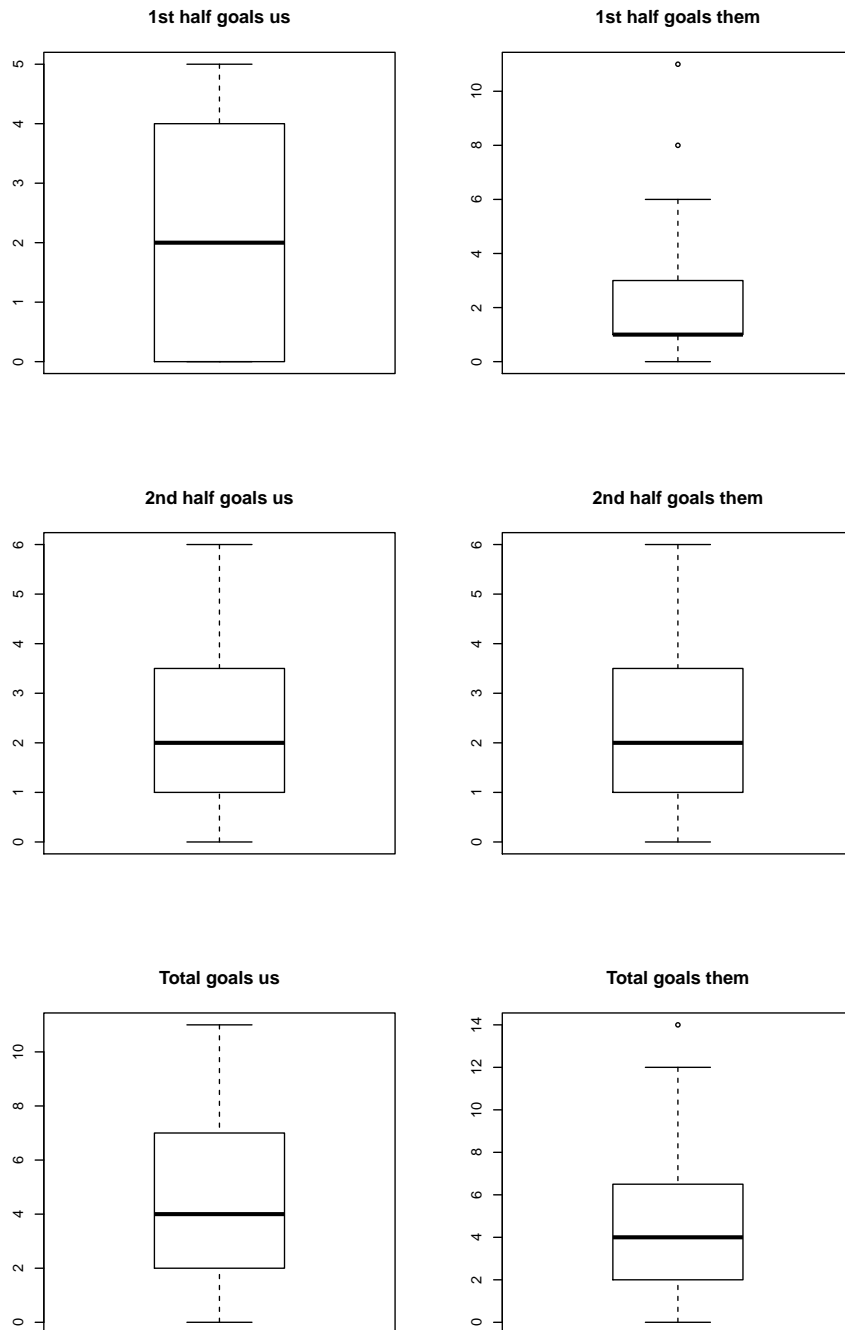
## 7 Statistics

Metric	Mean	Median	Total	Min	Max
1st half goals(us)	2	2	101	0	5
2nd half goals(us)	2.4	2	122	0	6
Goals(us)	4.4	4	223	0	11
1st half goals(them)	2.1	1	106	0	11
2nd half goals(them)	2.4	2	122	0	6
Goals(them)	4.5	4	228	0	14
1st half shots(us)	7.7	8	392	0	27
2nd half shots(us)	7.8	7	399	0	27
Shots(us)	15.5	15	791	0	50
1st half shots(them)	6.2	7	314	0	15
2nd half shots(them)	6.8	6	345	0	15
Shots(them)	12.9	13	659	0	25
1st half corners(us)	1.7	1	56	0	5
2nd half corners(us)	1.6	1	52	0	4
Corners(us)	3.3	3	108	0	8
1st half corners(them)	2.3	2	76	0	6
2nd half corners(them)	3.2	2	106	0	34
Corners(them)	5.5	5	182	0	36
1st half saves(us)	2.7	3	139	0	8
2nd half saves(us)	3	3	152	0	10
Saves(us)	5.7	6	291	0	14
1st half saves(them)	3.4	3	174	0	10
2nd half saves(them)	NA	NA	NA	NA	NA
Saves(them)	NA	NA	NA	NA	NA

Statistics are based on **51** games. With an overall record of **22** wins, **22** losses, and **7** draws.

## 8 Distributions

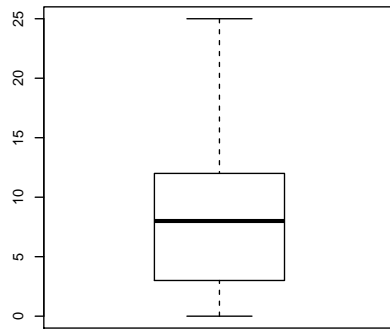
### 8.1 Goals



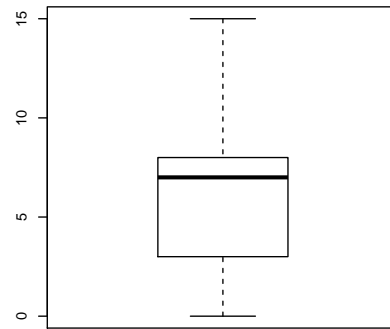


## 8.2 Shots

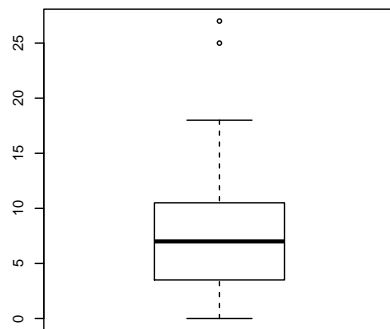
1st half shots us



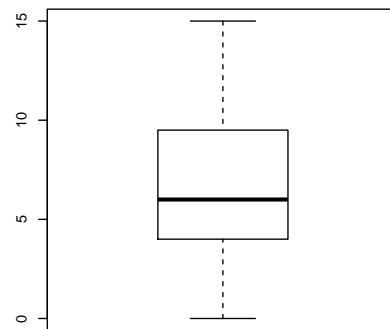
1st half shots them



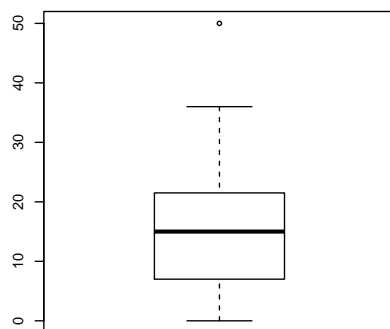
2nd half shots us



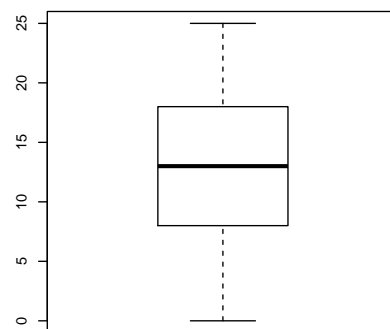
2nd half shots them



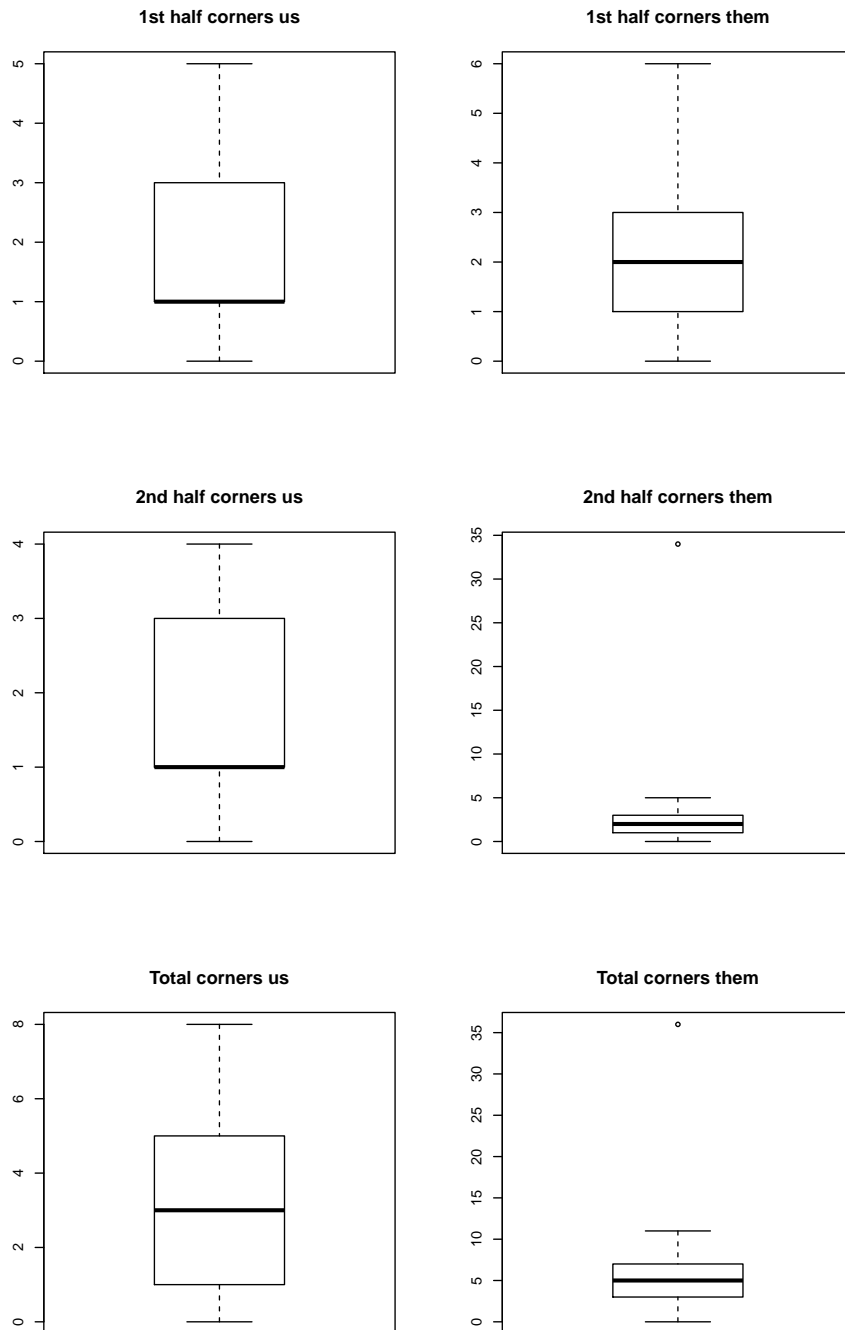
Total shots us



Total shots them

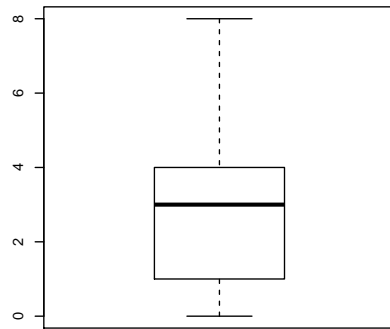


### 8.3 Corners

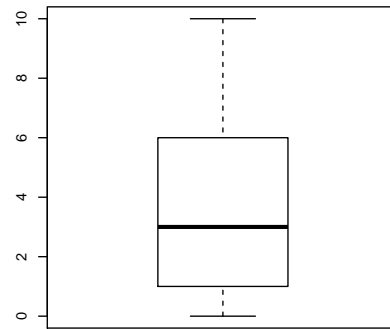


## 8.4 Saves

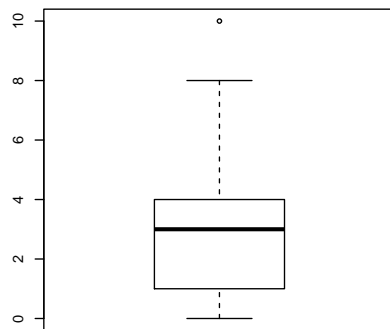
1st half saves us



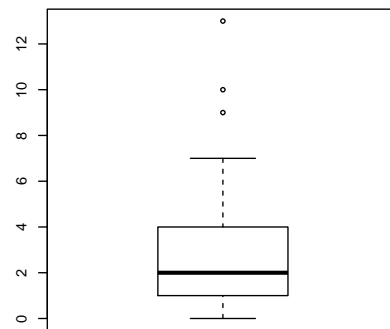
1st half saves them



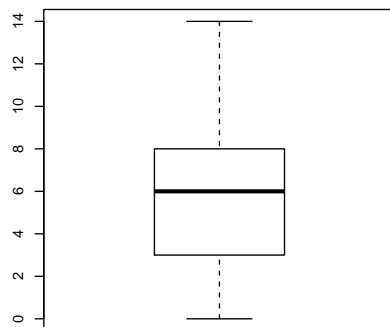
2nd half saves us



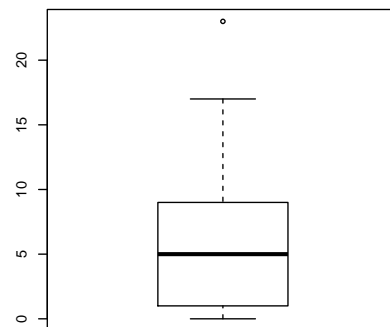
2nd half saves them



Total saves us

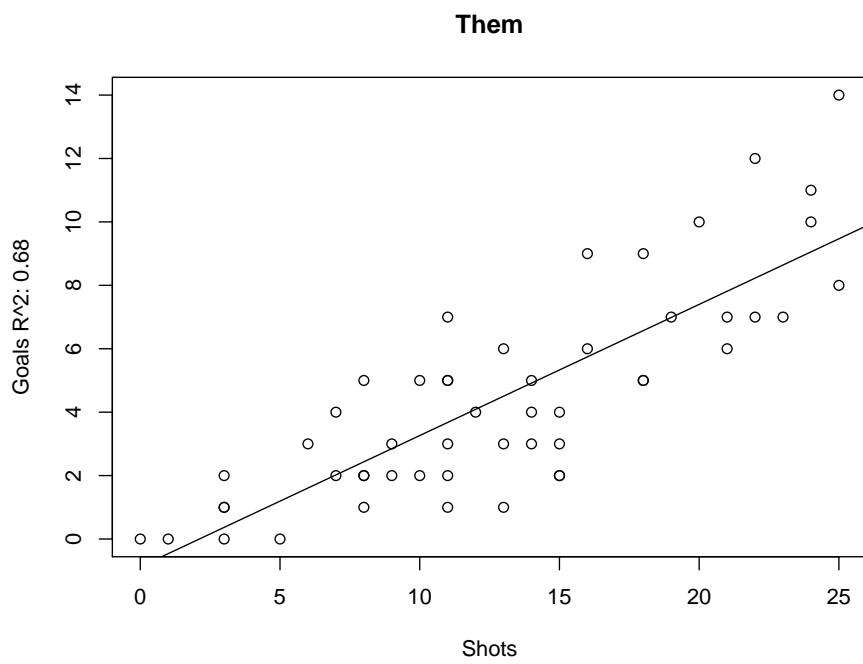
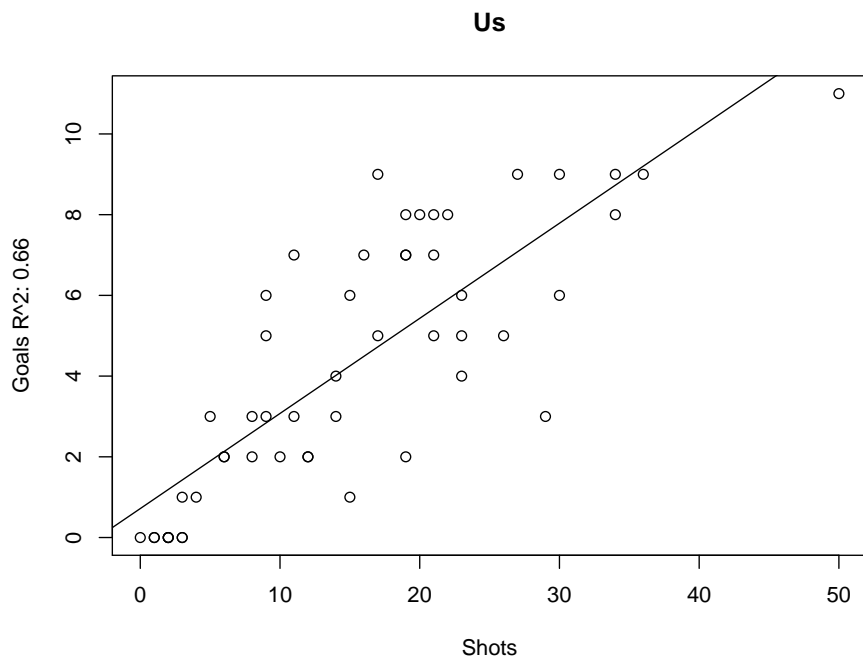


Total saves them

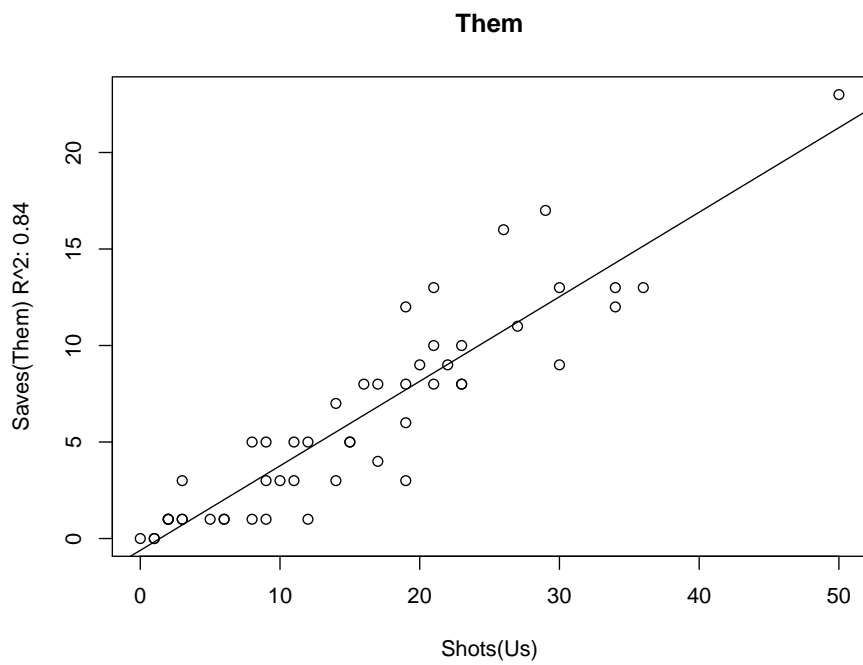
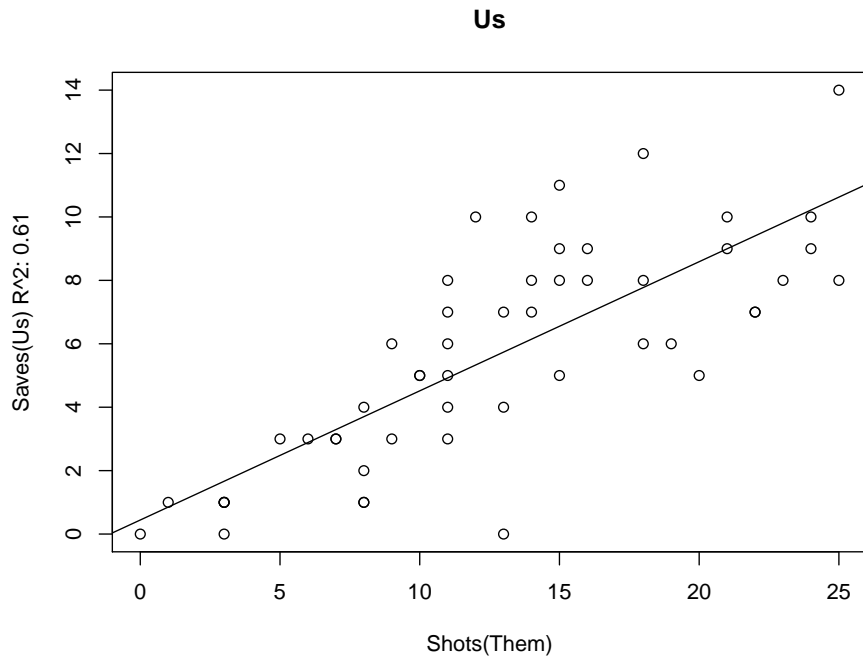


## 9 Correlations

### 9.1 Shots correlated with Goals



## 9.2 Saves correlated with Shots



### 9.3 Goals correlated with Corners

