

# WFA Soccer Stats Report

March 5, 2017

Report on the WFA soccer team.

# Contents

<b>1</b>	<b>Data file format</b>	<b>3</b>
1.1	File Location . . . . .	3
1.2	File format . . . . .	3
<b>2</b>	<b>Goals</b>	<b>4</b>
2.1	Halves . . . . .	4
2.2	Total . . . . .	5
<b>3</b>	<b>Shots</b>	<b>6</b>
3.1	Haves . . . . .	6
3.2	Total . . . . .	7
<b>4</b>	<b>Shot Efficiency</b>	<b>8</b>
4.1	Halves . . . . .	8
4.2	Total . . . . .	9
<b>5</b>	<b>Corners</b>	<b>10</b>
5.1	Halves . . . . .	10
5.2	Total . . . . .	11
<b>6</b>	<b>Saves</b>	<b>12</b>
6.1	Halves . . . . .	12
6.2	Total . . . . .	13
<b>7</b>	<b>Statistics</b>	<b>14</b>
<b>8</b>	<b>Distributions</b>	<b>15</b>
8.1	Goals . . . . .	15
8.2	Shots . . . . .	16
8.3	Corners . . . . .	17
8.4	Saves . . . . .	18
<b>9</b>	<b>Correlations</b>	<b>19</b>
9.1	Shots correlated with Goals . . . . .	19
9.2	Saves correlated with Shots . . . . .	20
9.3	Goals correlated with Corners . . . . .	21

# 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 23 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
```

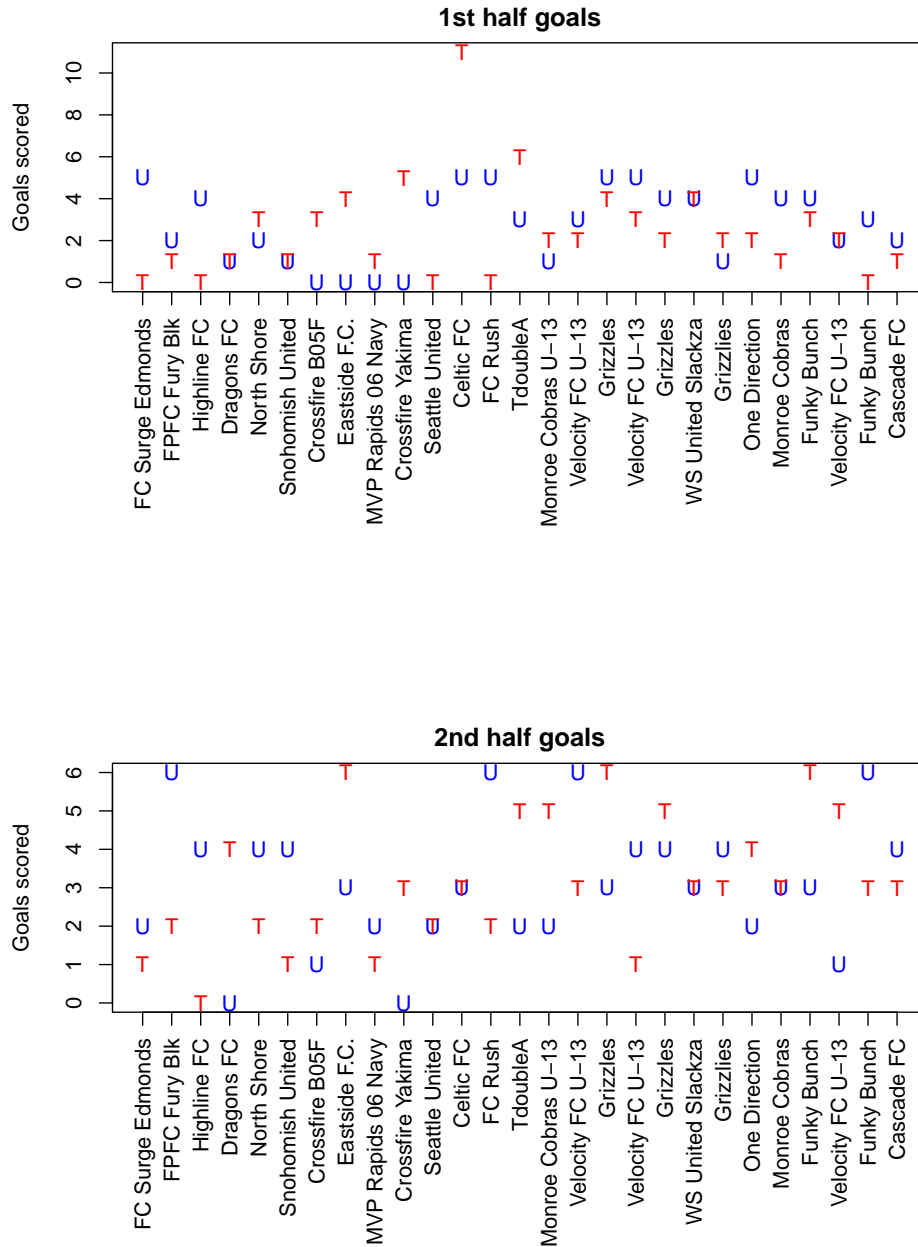
Data dictionary for the *CSV* file follows:

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

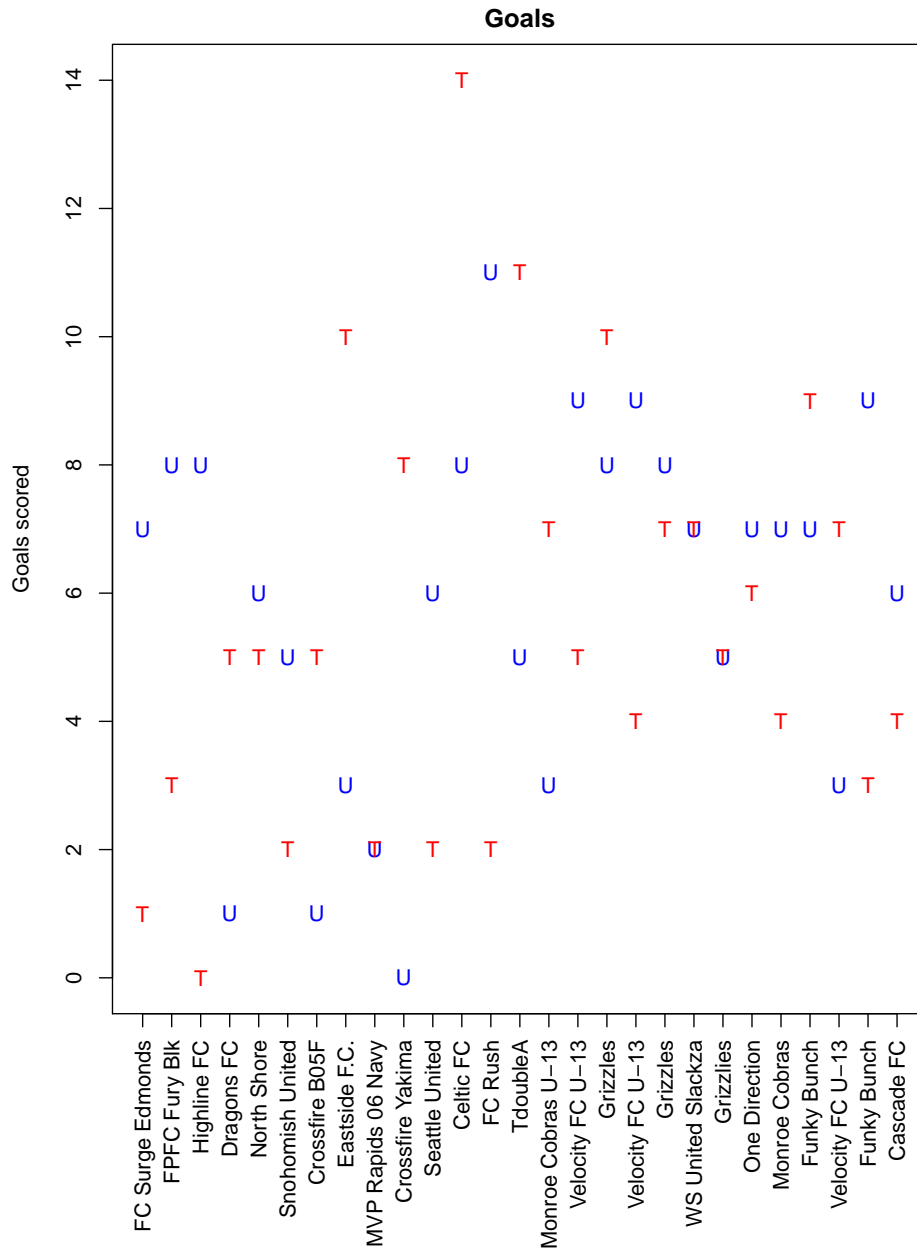
**NB:** Since indoor soccer does not have corners, the *CSV* file needs to be correctly edited for indoor games. Indoor matches are removed from graphing and calculations when the *Weather* column is set to *Indoor* and if the 4 corner fields—*1CU*, *1CT*, *2CU*, and *2CT*—are set to empty.

## 2 Goals

### 2.1 Halves

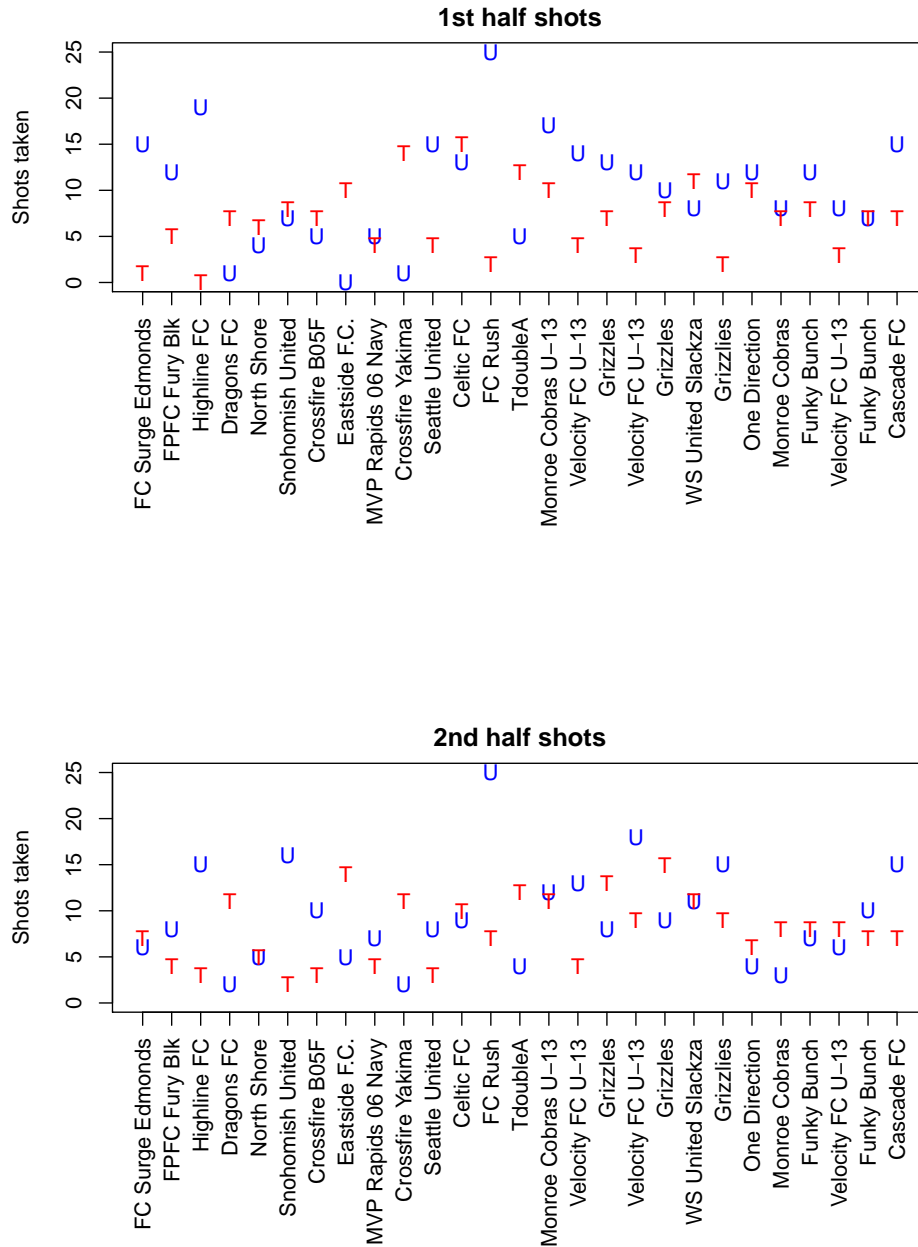


## 2.2 Total

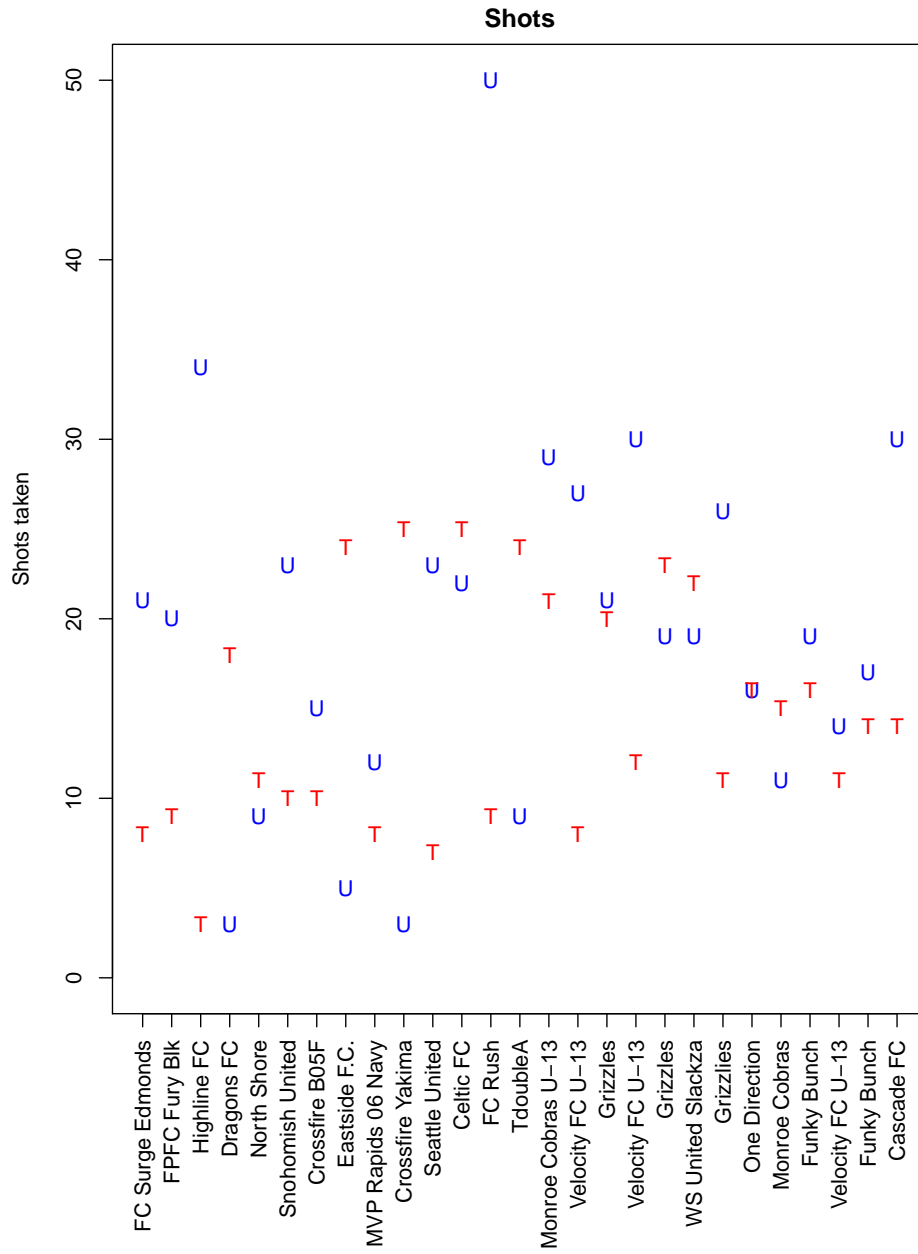


### 3 Shots

#### 3.1 Haves

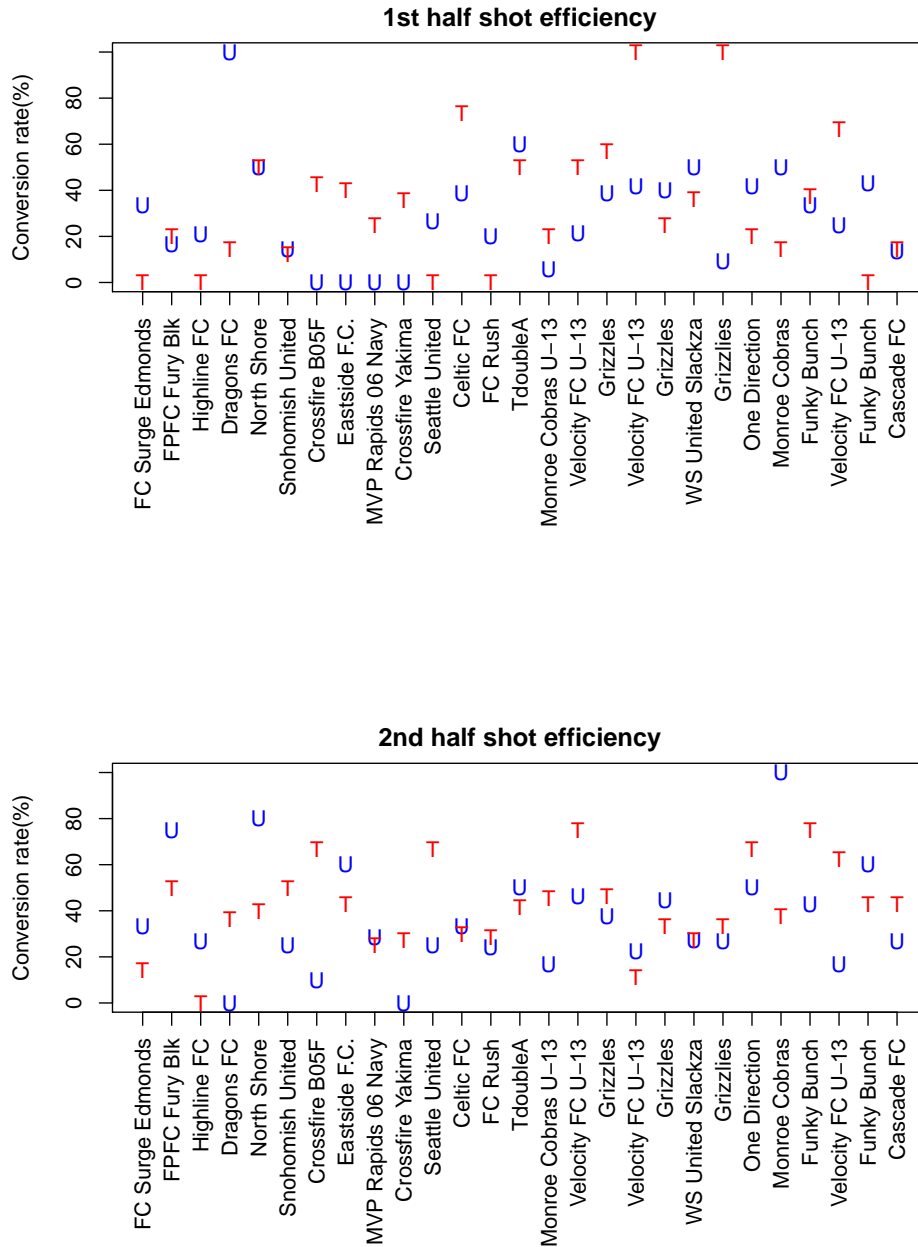


### 3.2 Total



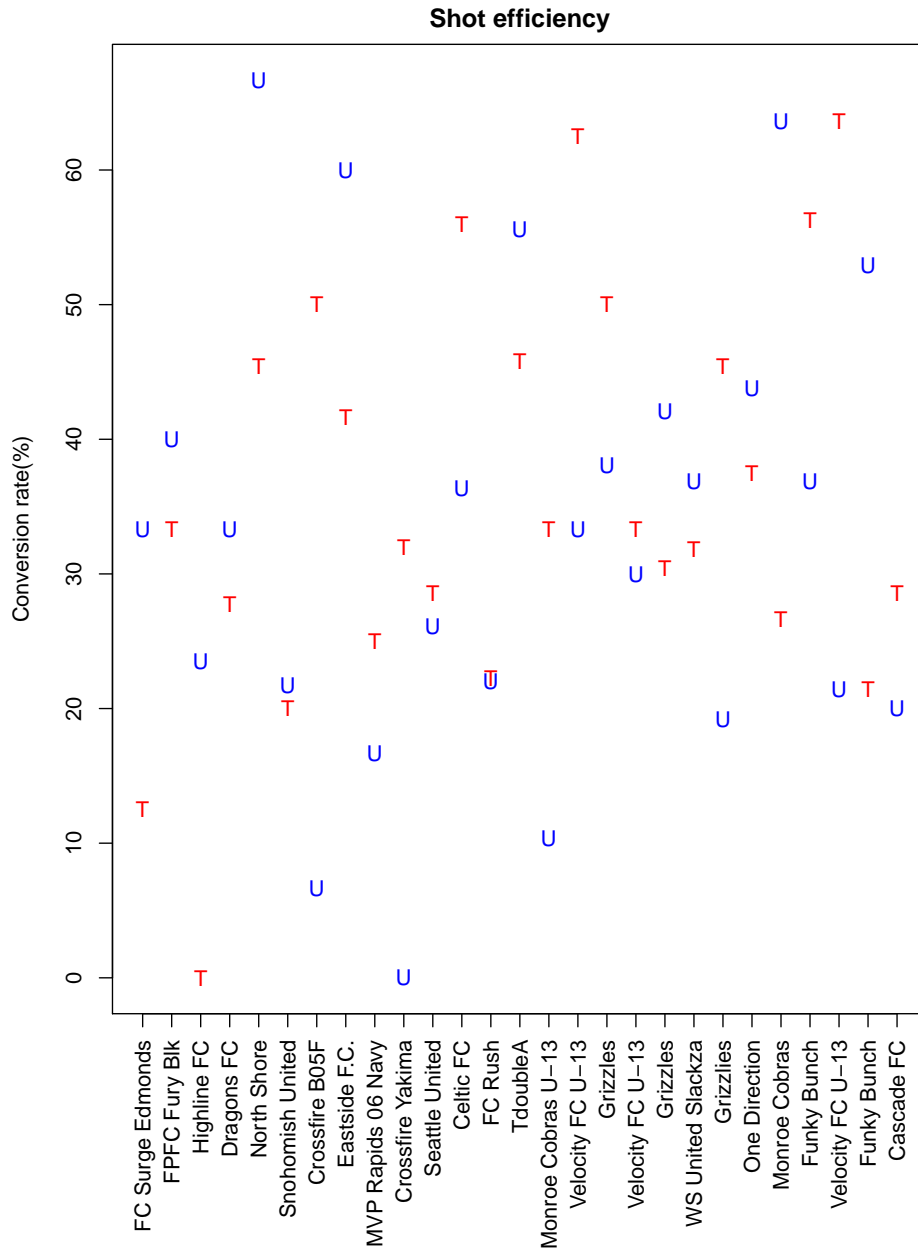
## 4 Shot Efficiency

### 4.1 Halves



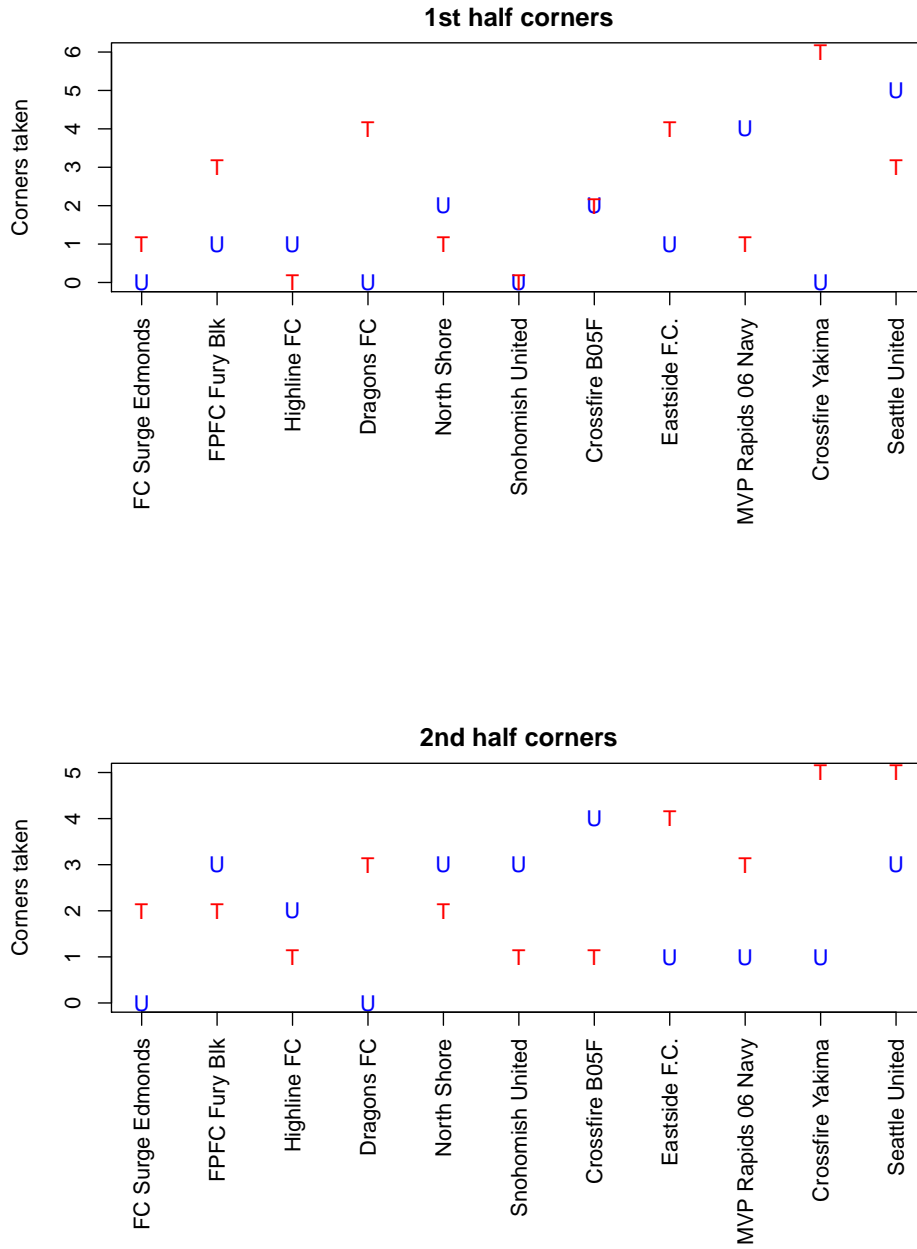


## 4.2 Total

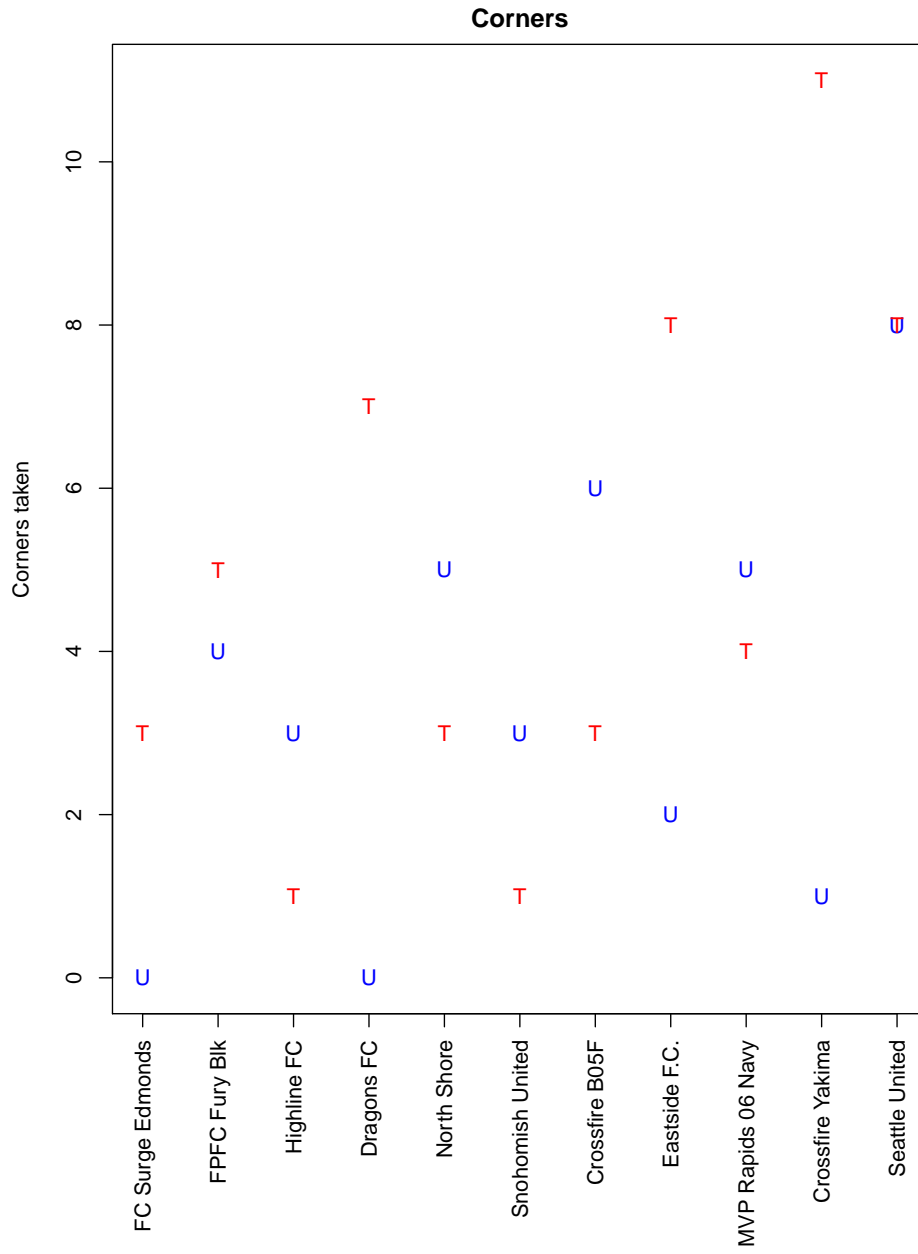


## 5 Corners

### 5.1 Halves

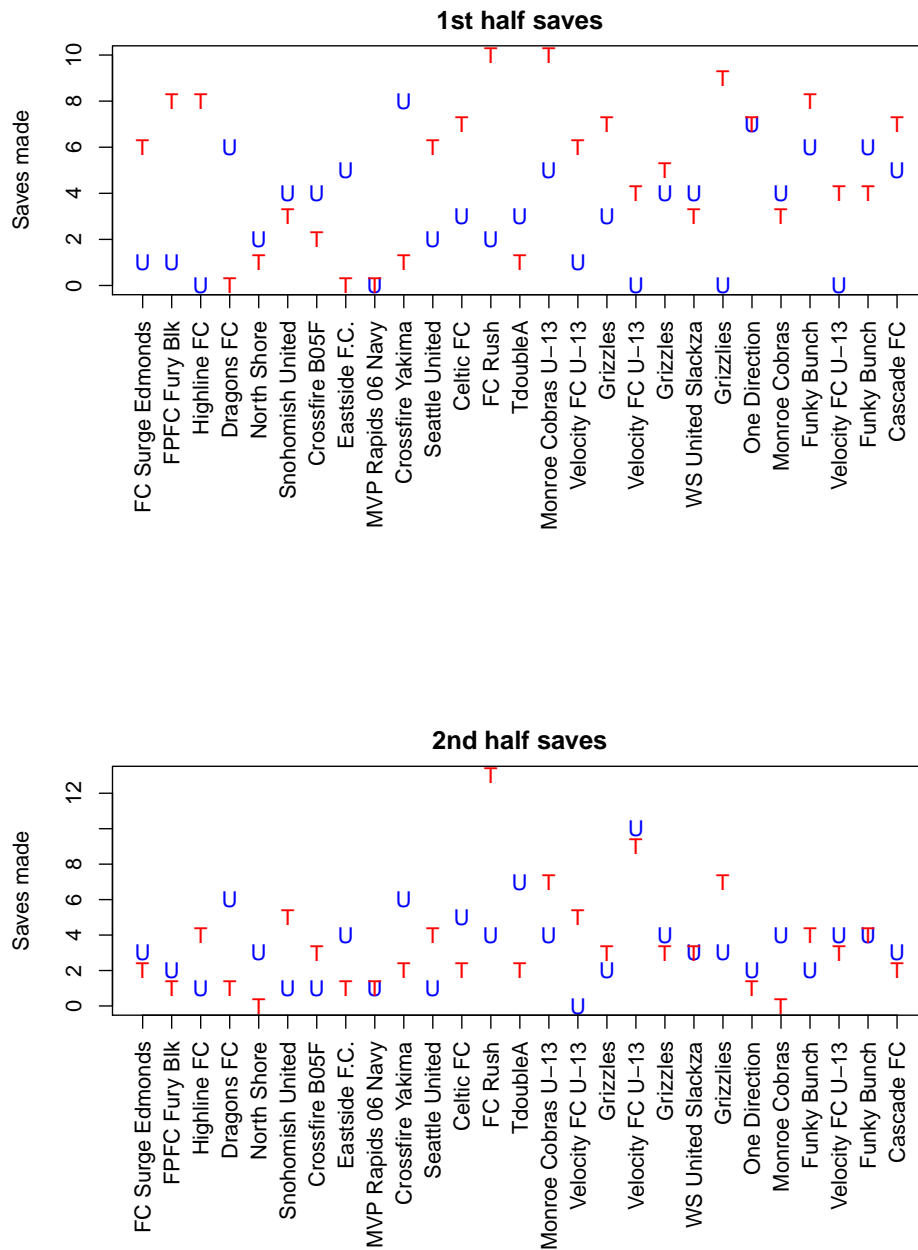


## 5.2 Total

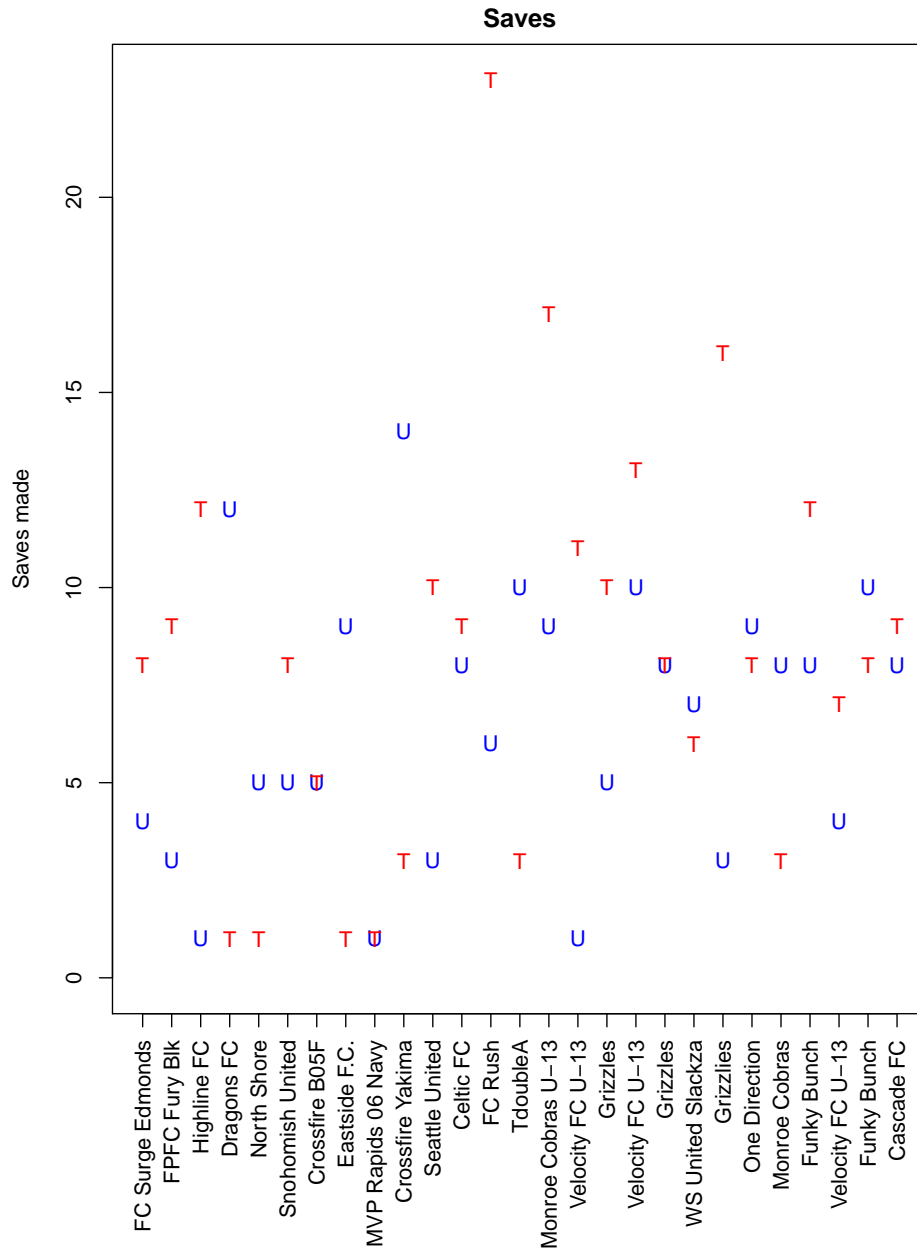


## 6 Saves

### 6.1 Halves



## 6.2 Total



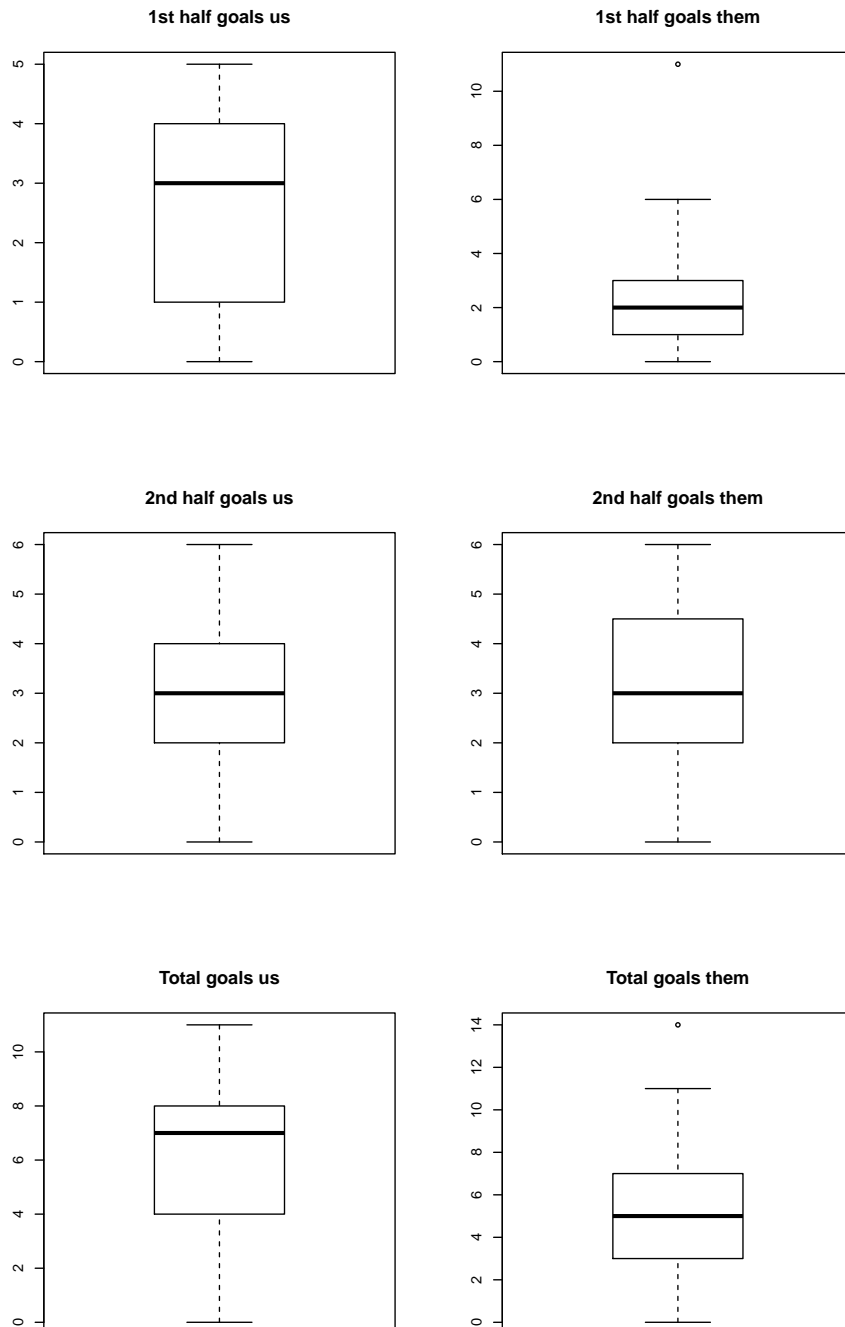
## 7 Statistics

Metric	Mean	Median	Total	Min	Max
1st half goals(us)	2.8	3	75	0	5
2nd half goals(us)	3.1	3	84	0	6
Goals(us)	5.9	7	159	0	11
1st half goals(them)	2.4	2	64	0	11
2nd half goals(them)	3.1	3	84	0	6
Goals(them)	5.5	5	148	0	14
1st half shots(us)	10.1	11	274	0	25
2nd half shots(us)	9.4	8	253	2	25
Shots(us)	19.5	19	527	3	50
1st half shots(them)	6.7	7	182	0	15
2nd half shots(them)	7.9	8	212	2	15
Shots(them)	14.6	14	394	3	25
1st half corners(us)	1	0	16	0	5
2nd half corners(us)	1.3	1	21	0	4
Corners(us)	2.3	1.5	37	0	8
1st half corners(them)	1.6	1	25	0	6
2nd half corners(them)	1.8	1.5	29	0	5
Corners(them)	3.4	3	54	0	11
1st half saves(us)	3.2	3	86	0	8
2nd half saves(us)	3.3	3	90	0	10
Saves(us)	6.5	7	176	1	14
1st half saves(them)	4.8	5	130	0	10
2nd half saves(them)	3.4	3	92	0	13
Saves(them)	8.2	8	222	1	23

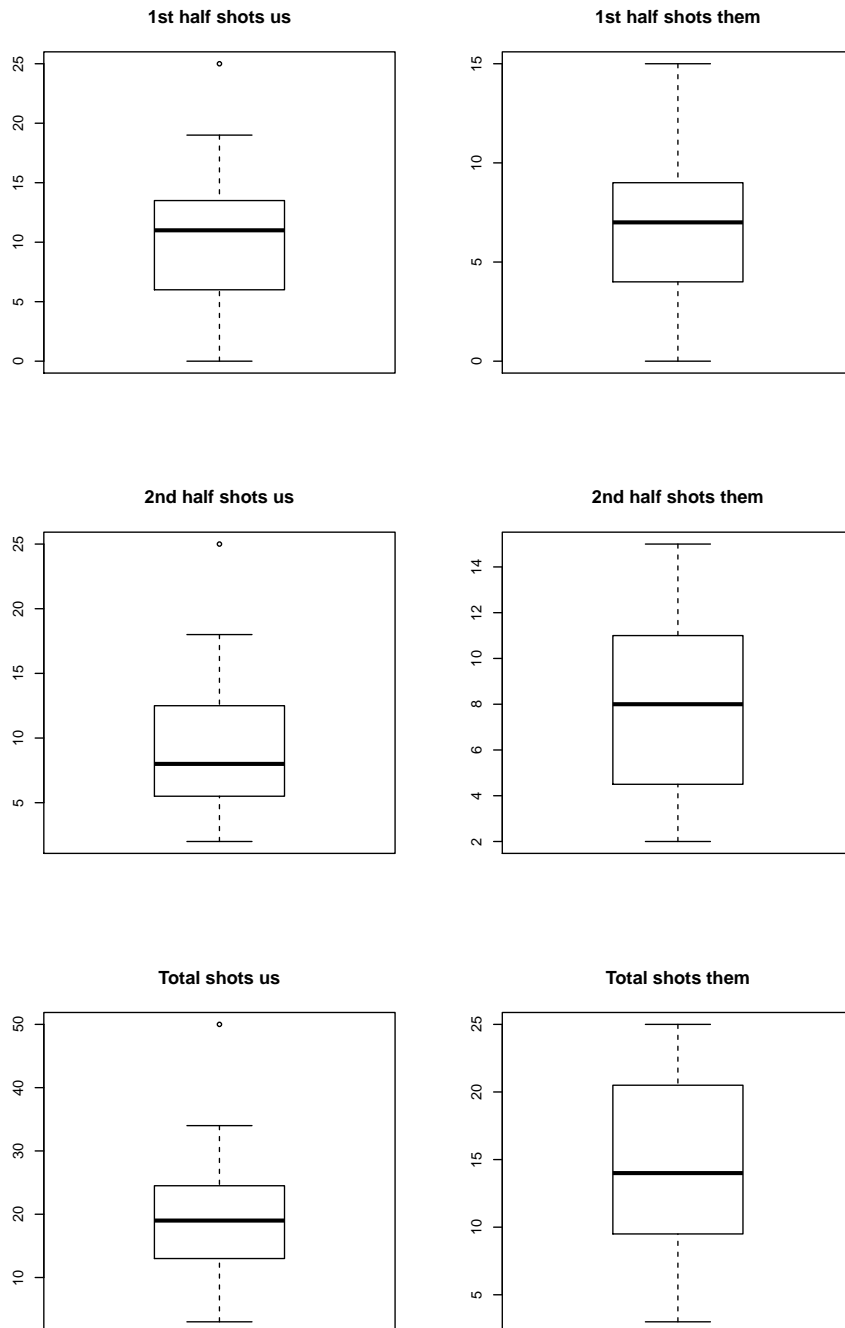
Statistics are based on **27** games. With an overall record of **14** wins, **10** losses, and **3** draws.

## 8 Distributions

### 8.1 Goals

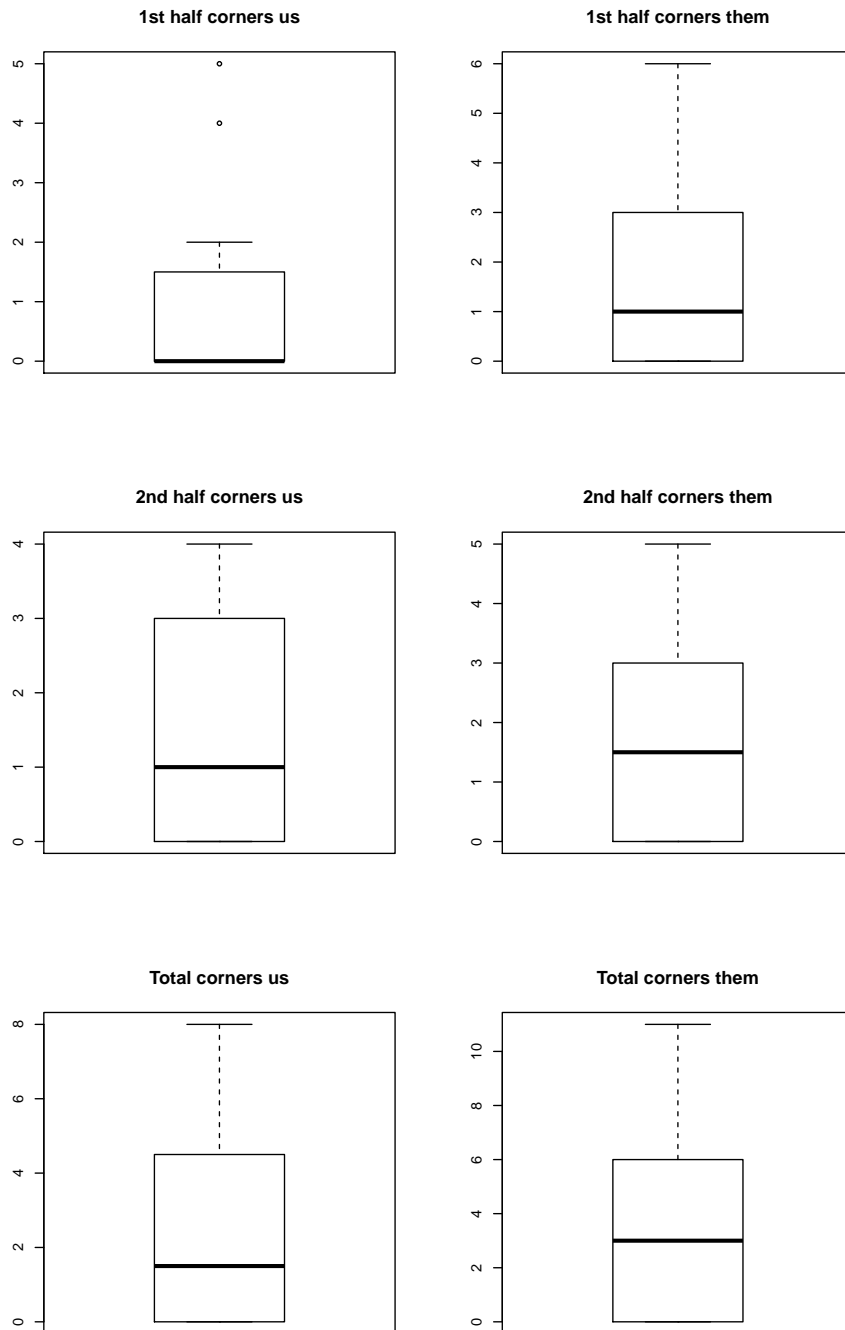


## 8.2 Shots



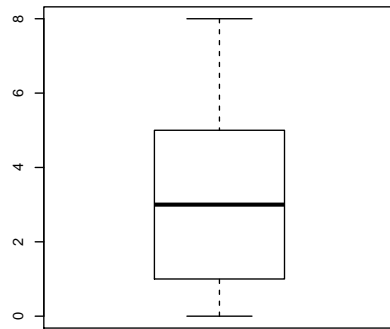


### 8.3 Corners

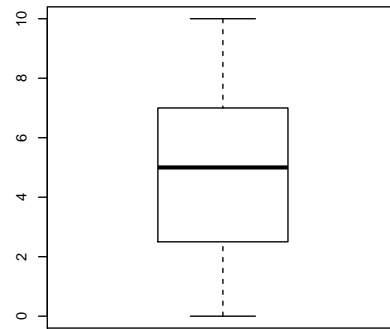


## 8.4 Saves

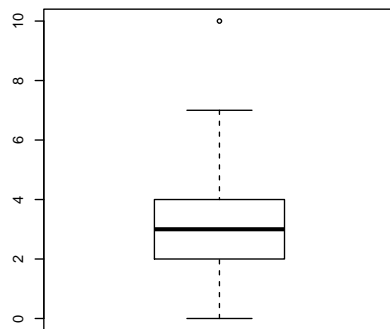
1st half saves us



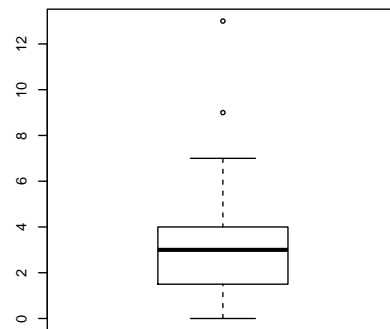
1st half saves them



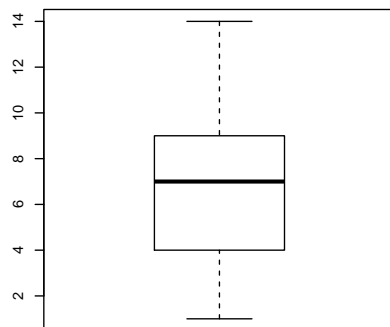
2nd half saves us



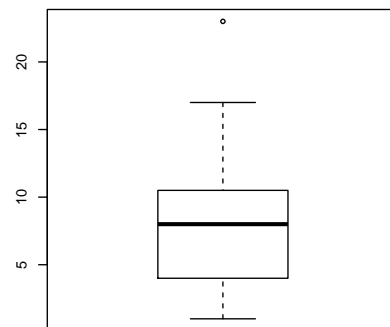
2nd half saves them



Total saves us

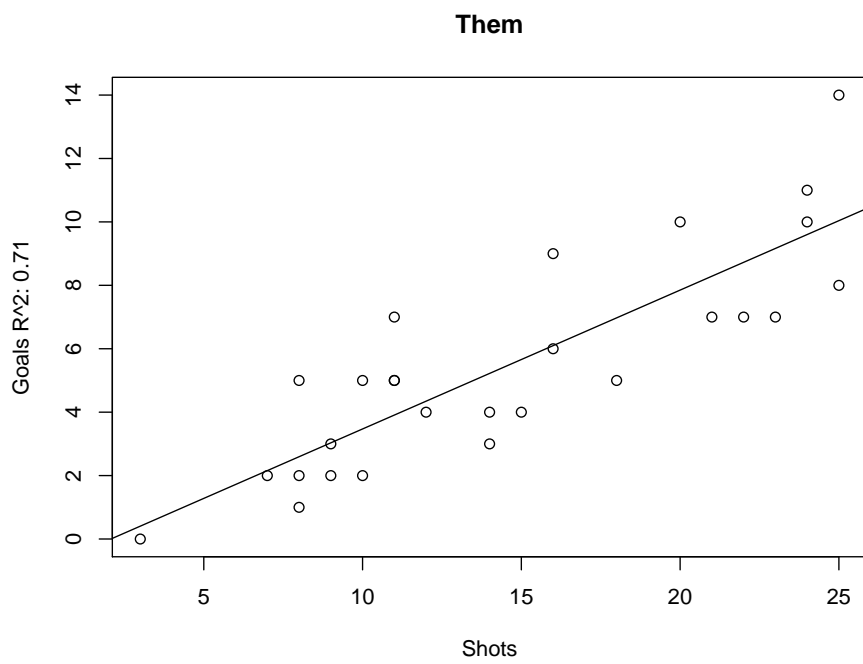
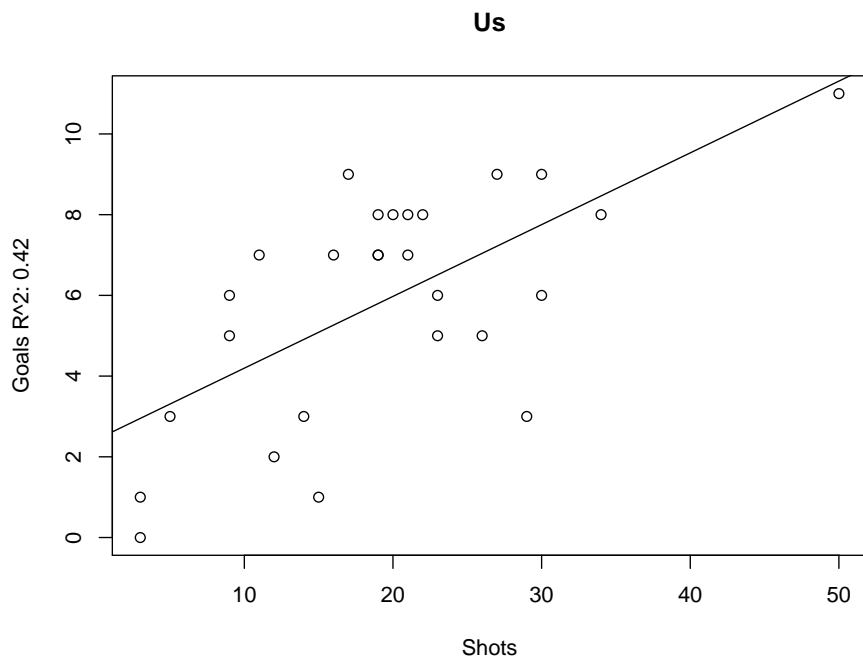


Total saves them

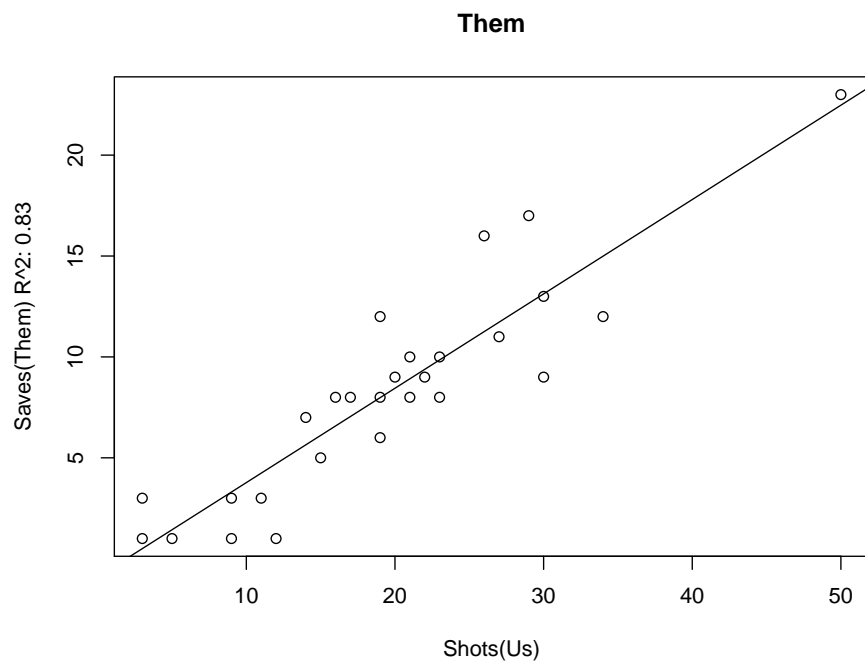
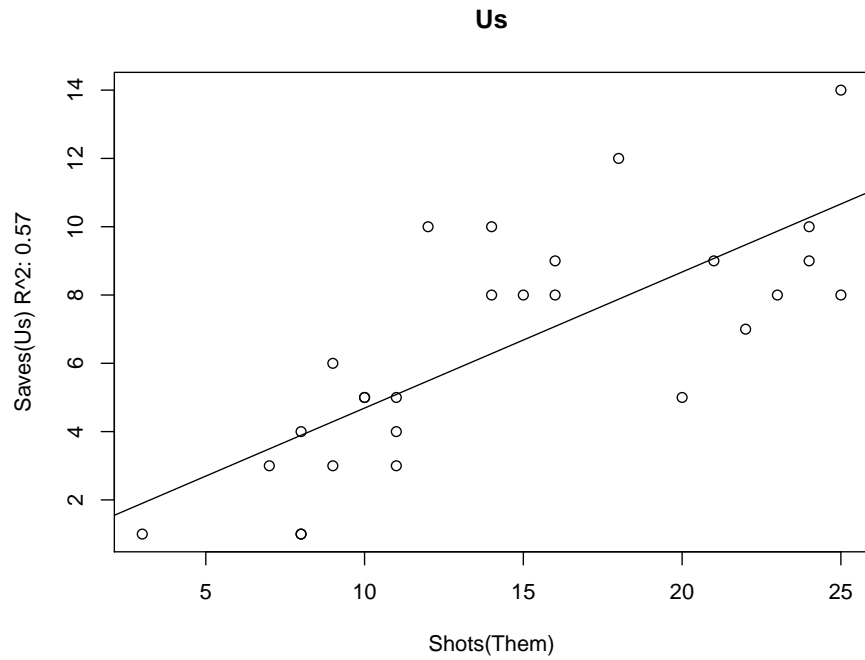


## 9 Correlations

### 9.1 Shots correlated with Goals



## 9.2 Saves correlated with Shots



### 9.3 Goals correlated with Corners

