

WFA Soccer Stats Report

March 11, 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
```

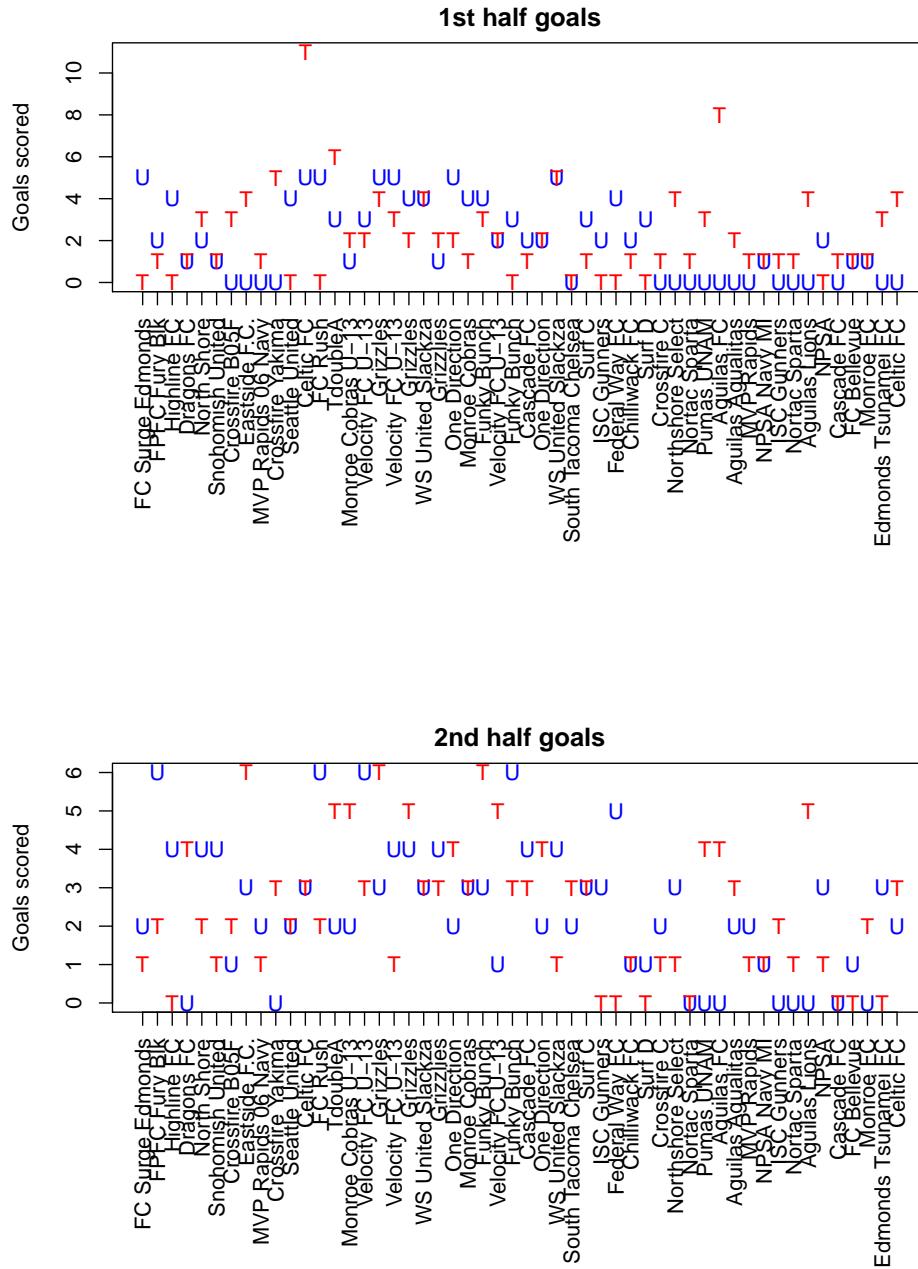
Data dictionary for the *CSV* file follows:

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

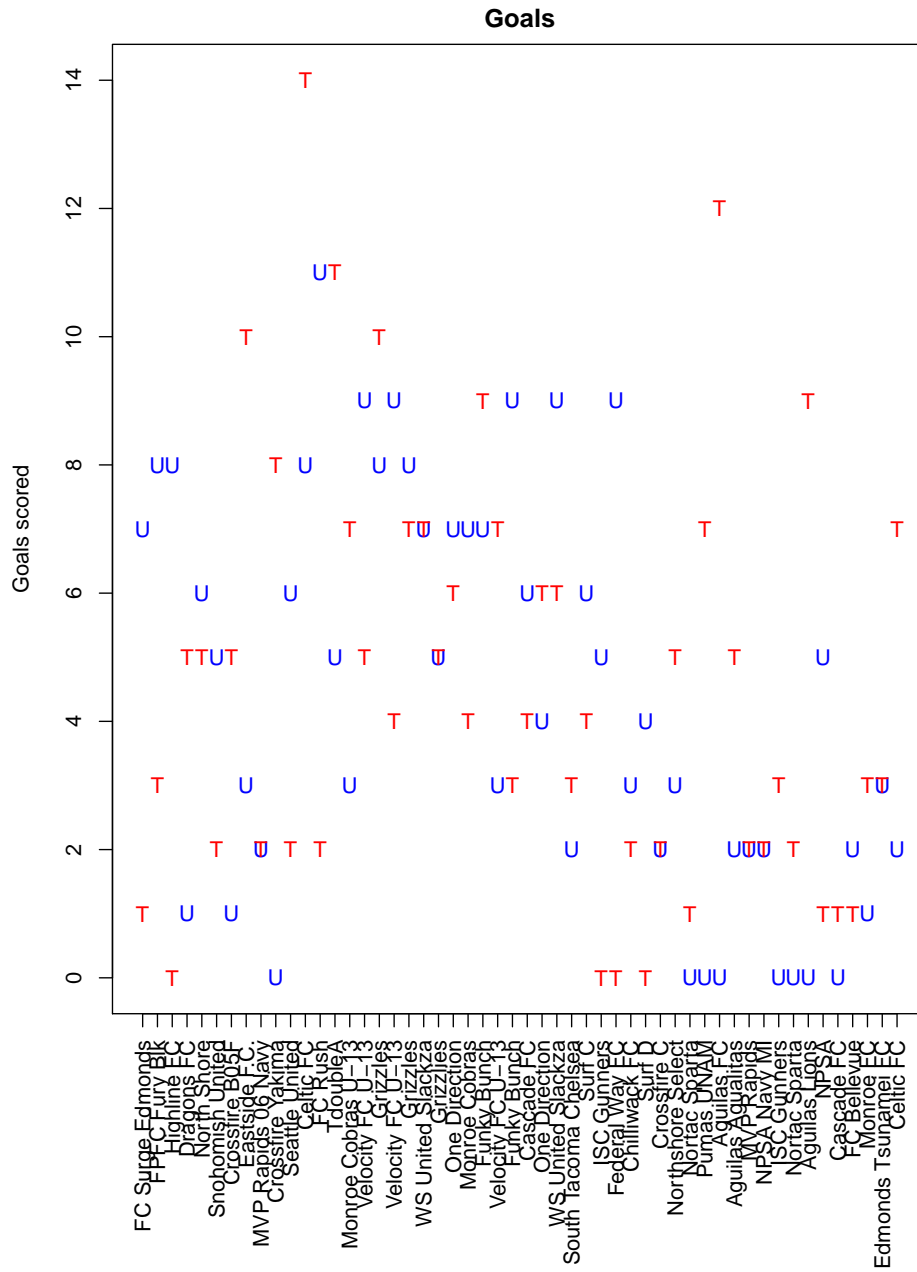
NB: Since indoor soccer does not have corners, the *CSV* file needs to be correctly edited for indoor games. Indoor matches are removed from graphing and calculations when the *Weather* column is set to *Indoor* and if the 4 corner fields—*1CU*, *1CT*, *2CU*, and *2CT*—are set to empty.

2 Goals

2.1 Halves

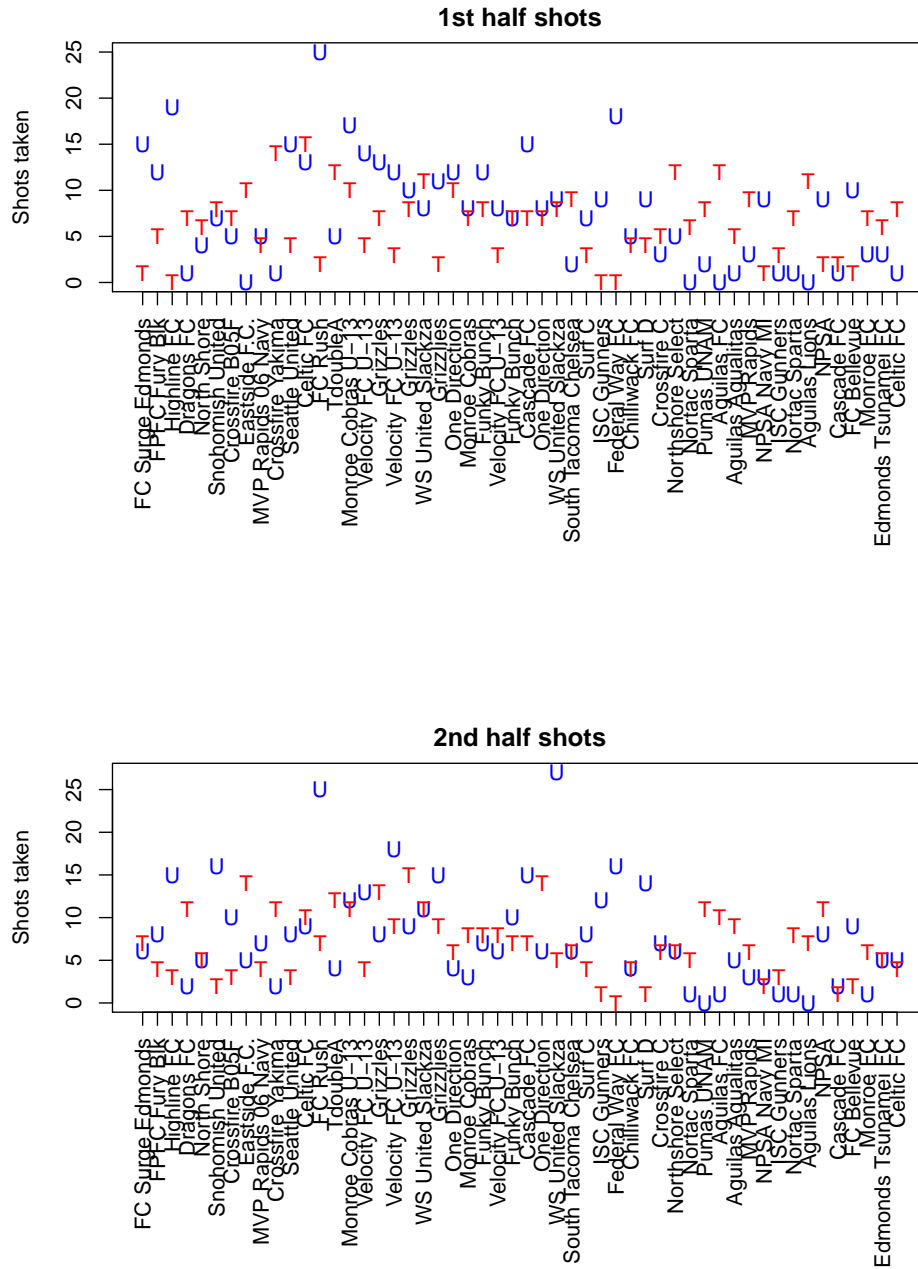


2.2 Total

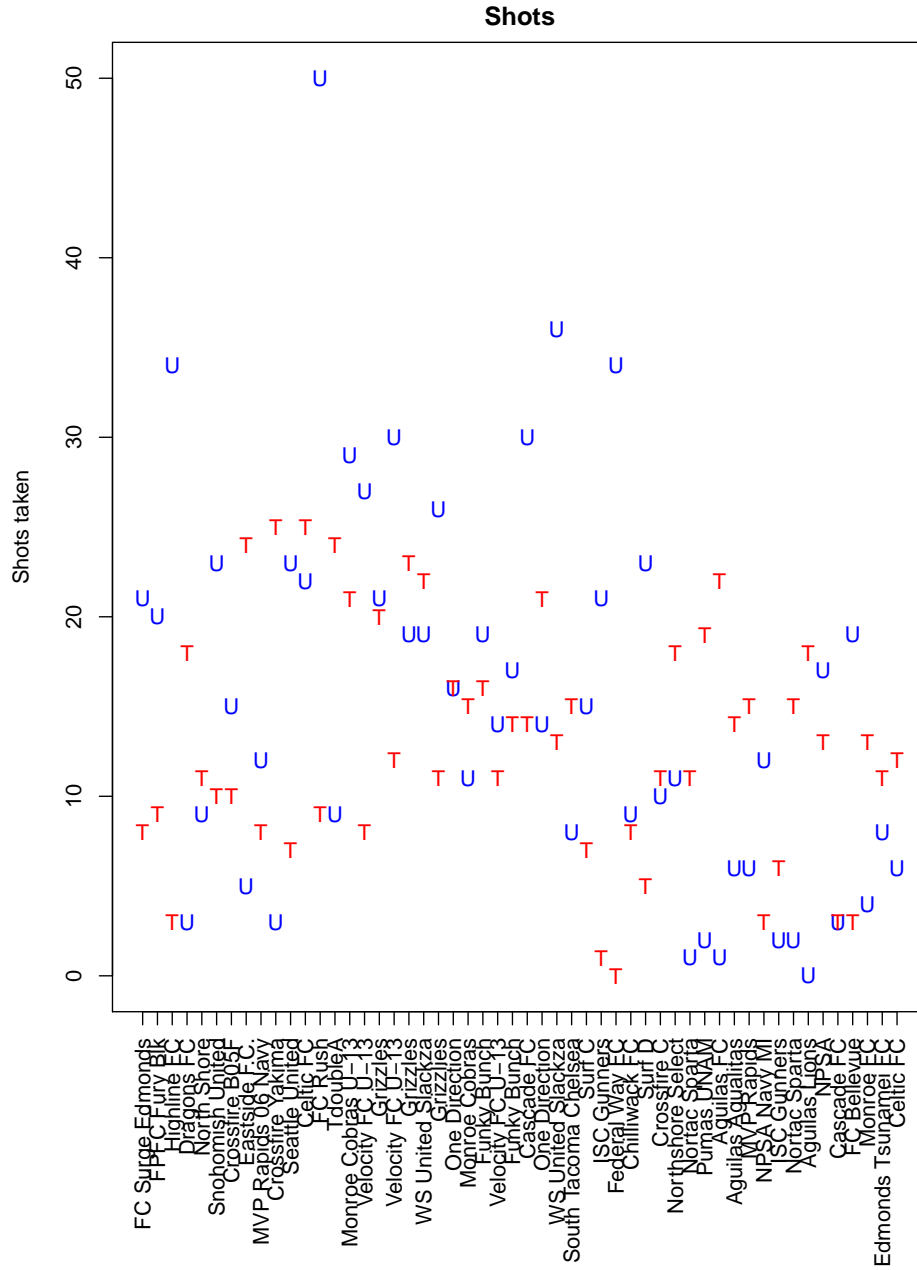


3 Shots

3.1 Haves

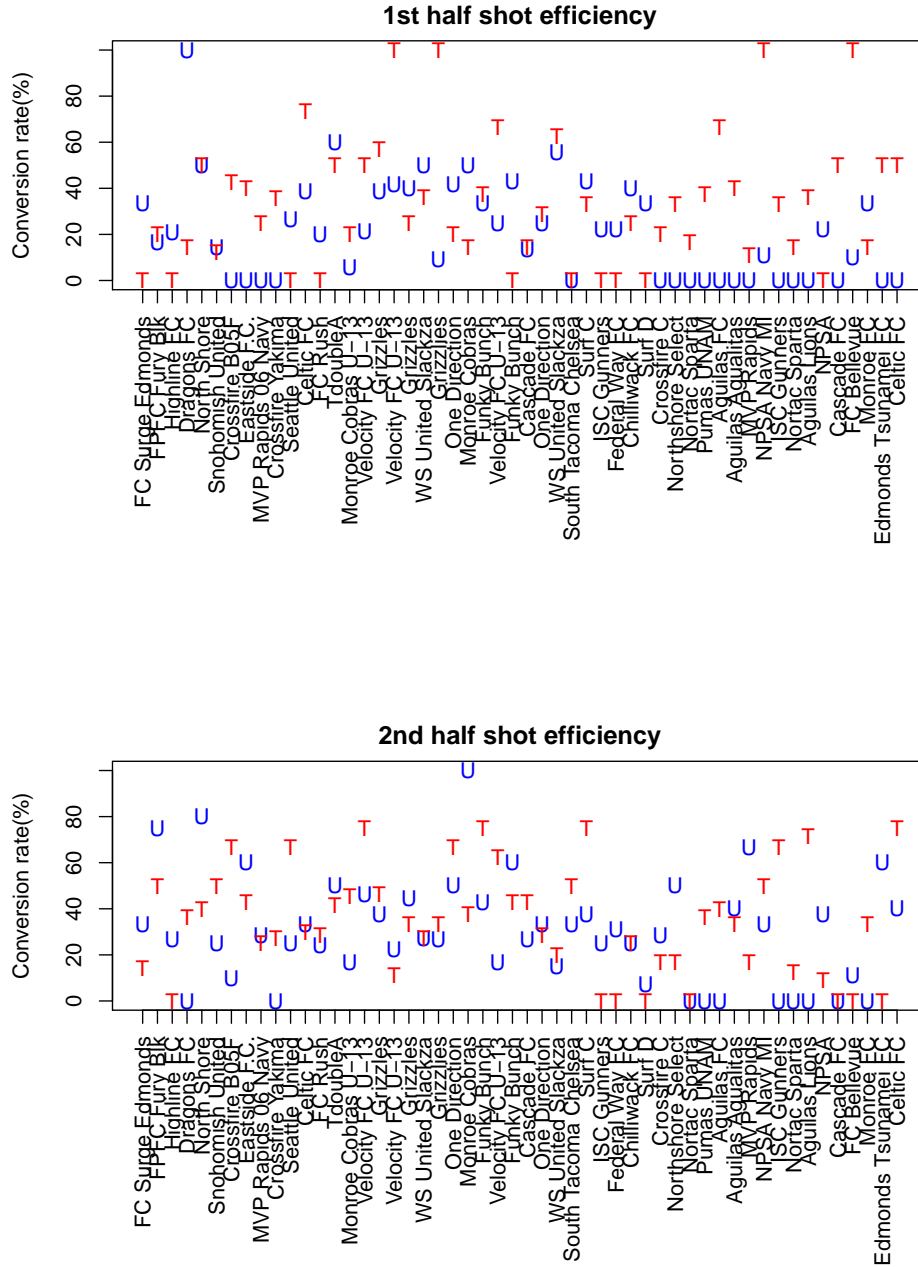


3.2 Total

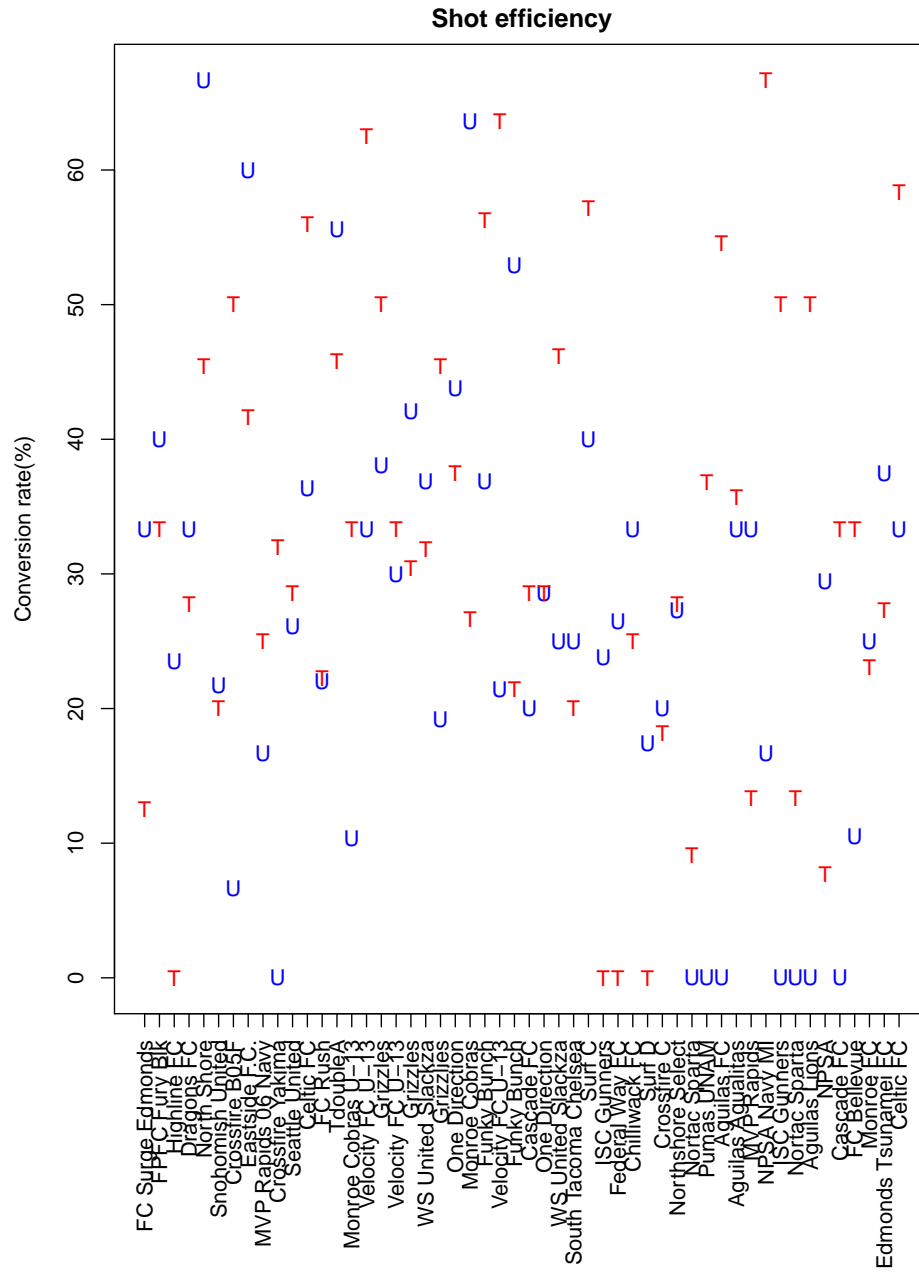


4 Shot Efficiency

4.1 Halves

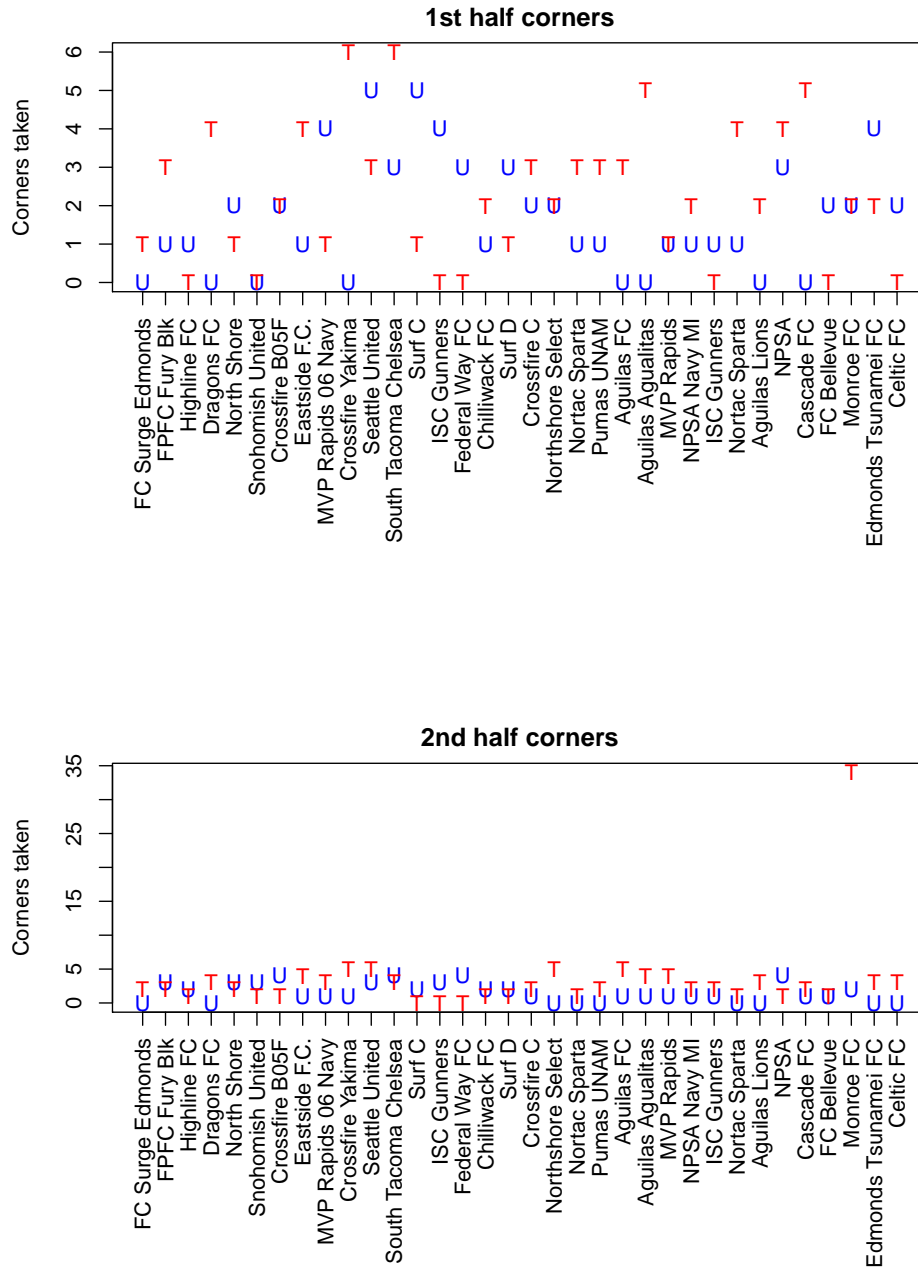


4.2 Total

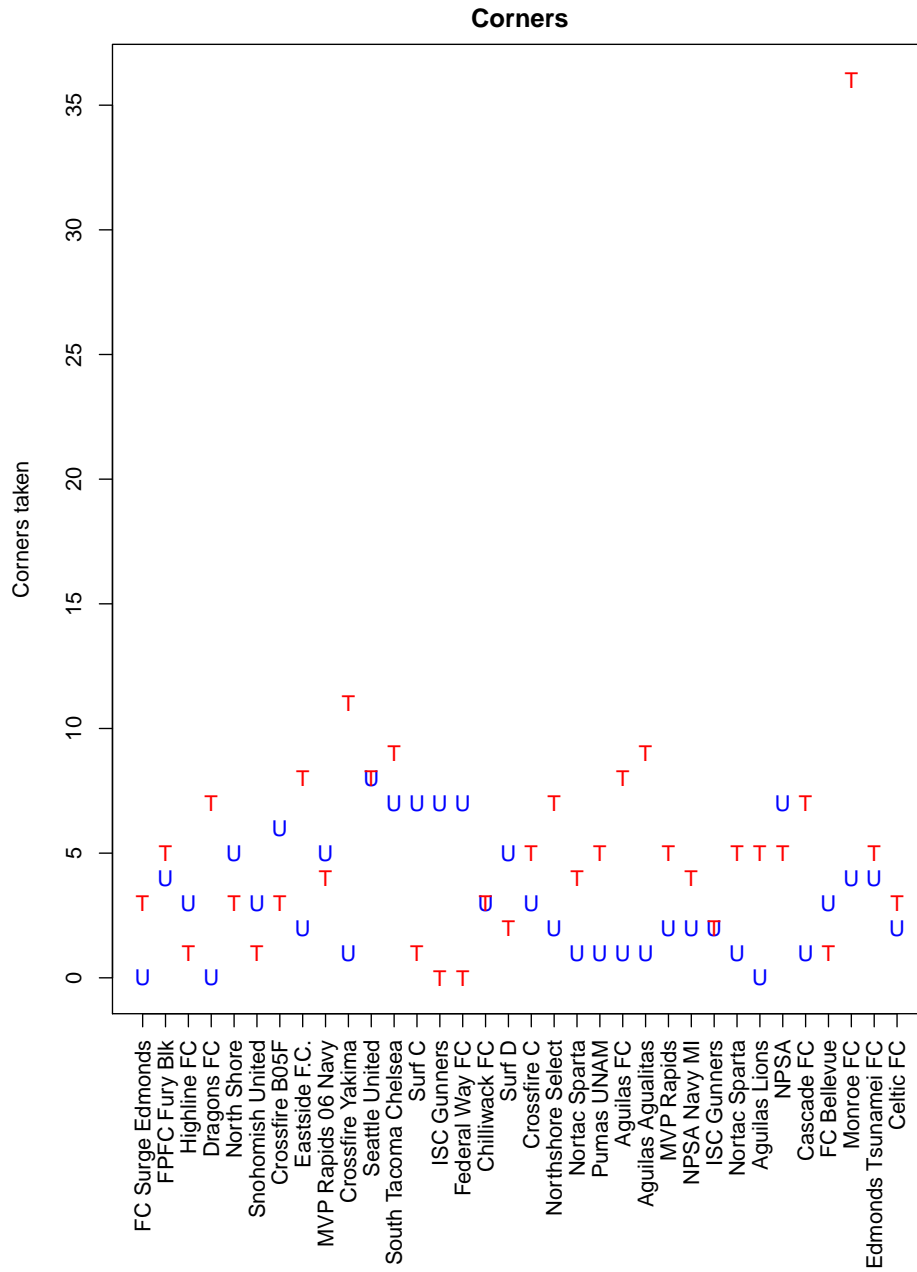


5 Corners

5.1 Halves



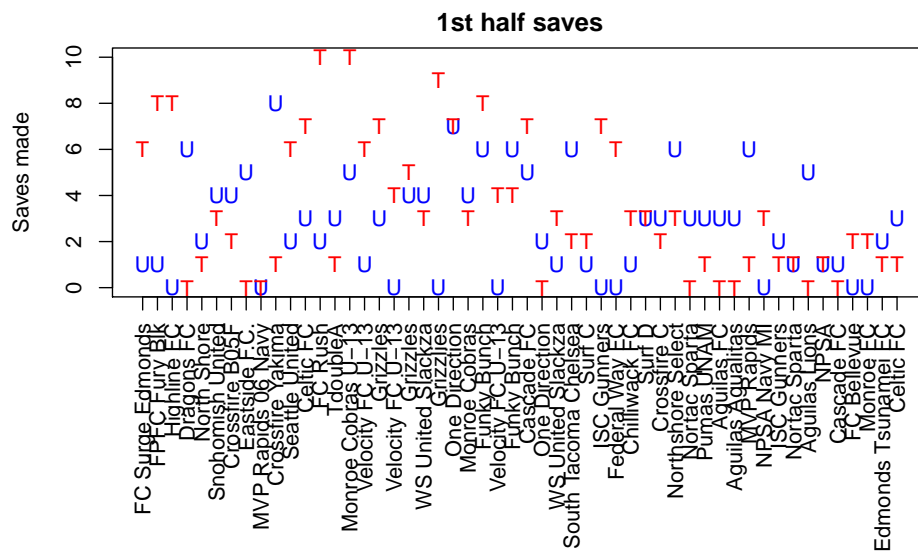
5.2 Total



6 Saves

6.1 Halves

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



6.2 Total

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

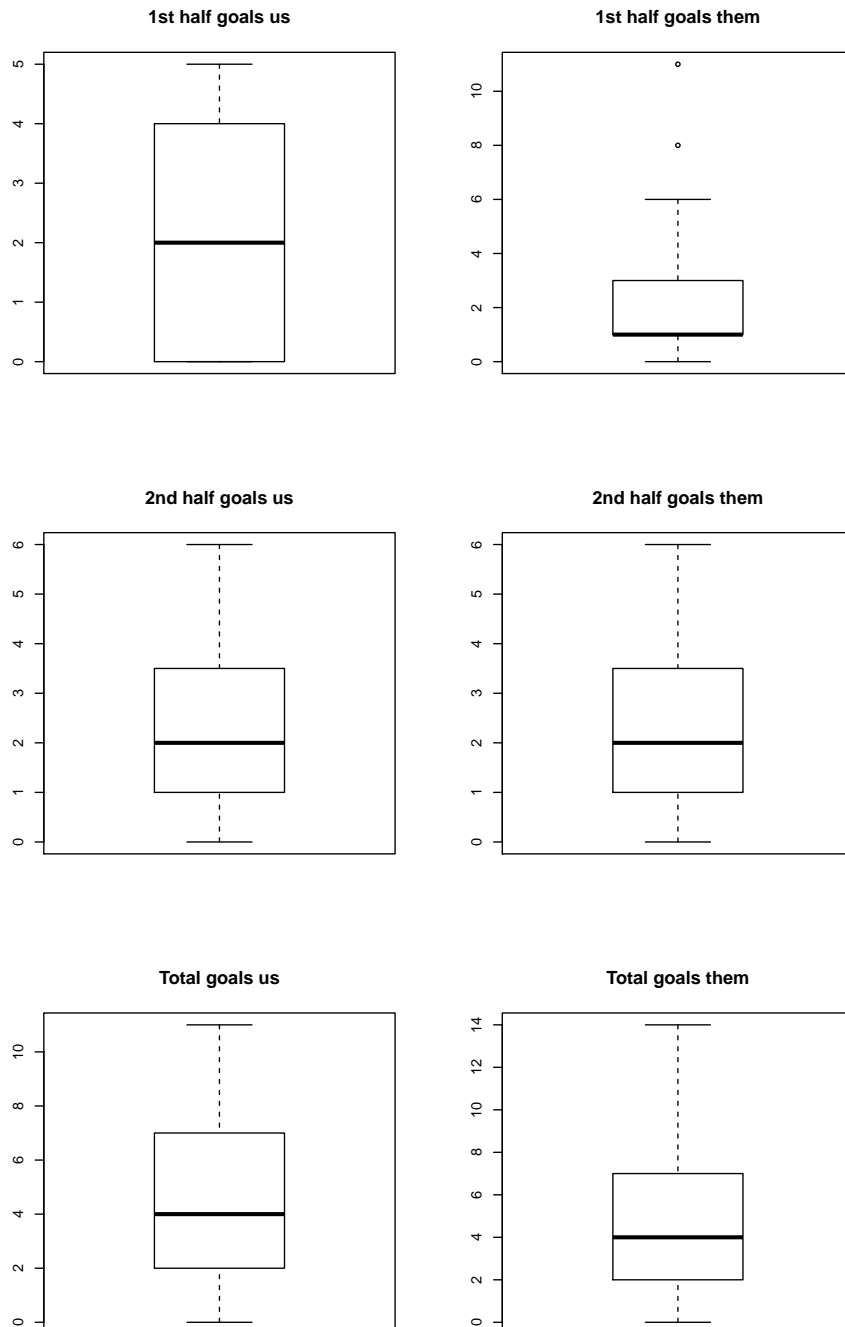
7 Statistics

Metric	Mean	Median	Total	Min	Max
1st half goals(us)	1.9	2	101	0	5
2nd half goals(us)	2.4	2	124	0	6
Goals(us)	4.3	4	225	0	11
1st half goals(them)	2.1	1	110	0	11
2nd half goals(them)	2.4	2	125	0	6
Goals(them)	4.5	4	235	0	14
1st half shots(us)	7.6	7.5	393	0	27
2nd half shots(us)	7.8	6.5	404	0	27
Shots(us)	15.3	14.5	797	0	50
1st half shots(them)	6.2	7	322	0	15
2nd half shots(them)	6.7	6	349	0	15
Shots(them)	12.9	12.5	671	0	25
1st half corners(us)	1.7	1	58	0	5
2nd half corners(us)	1.5	1	52	0	4
Corners(us)	3.2	3	110	0	8
1st half corners(them)	2.2	2	76	0	6
2nd half corners(them)	3.2	2	109	0	34
Corners(them)	5.4	5	185	0	36
1st half saves(us)	2.7	3	142	0	8
2nd half saves(us)	2.9	3	152	0	10
Saves(us)	5.7	6	294	0	14
1st half saves(them)	3.4	3	175	0	10
2nd half saves(them)	NA	NA	NA	NA	NA
Saves(them)	NA	NA	NA	NA	NA

Statistics are based on **52** games. With an overall record of **22** wins, **23** losses, and **7** draws.

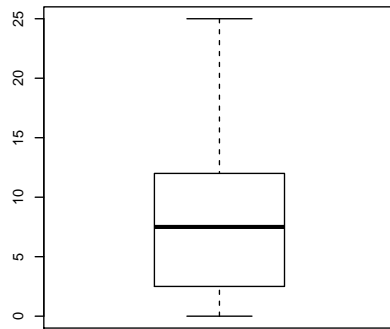
8 Distributions

8.1 Goals

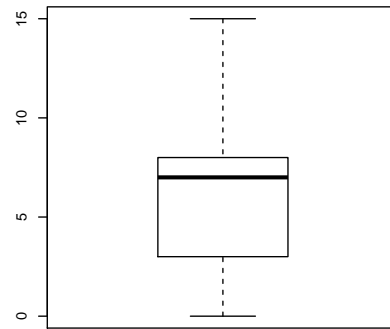


8.2 Shots

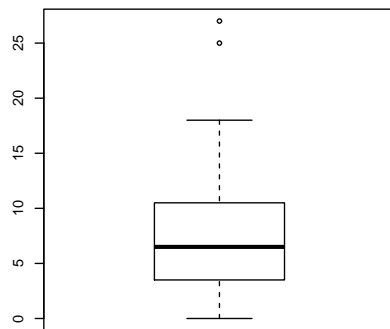
1st half shots us



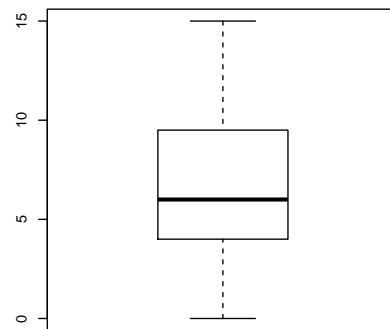
1st half shots them



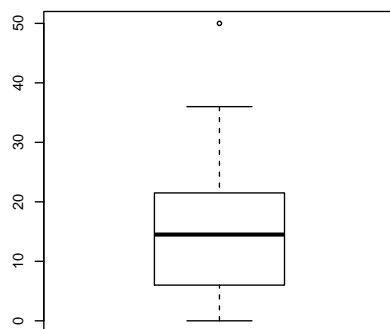
2nd half shots us



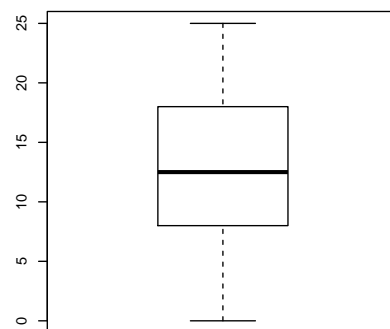
2nd half shots them



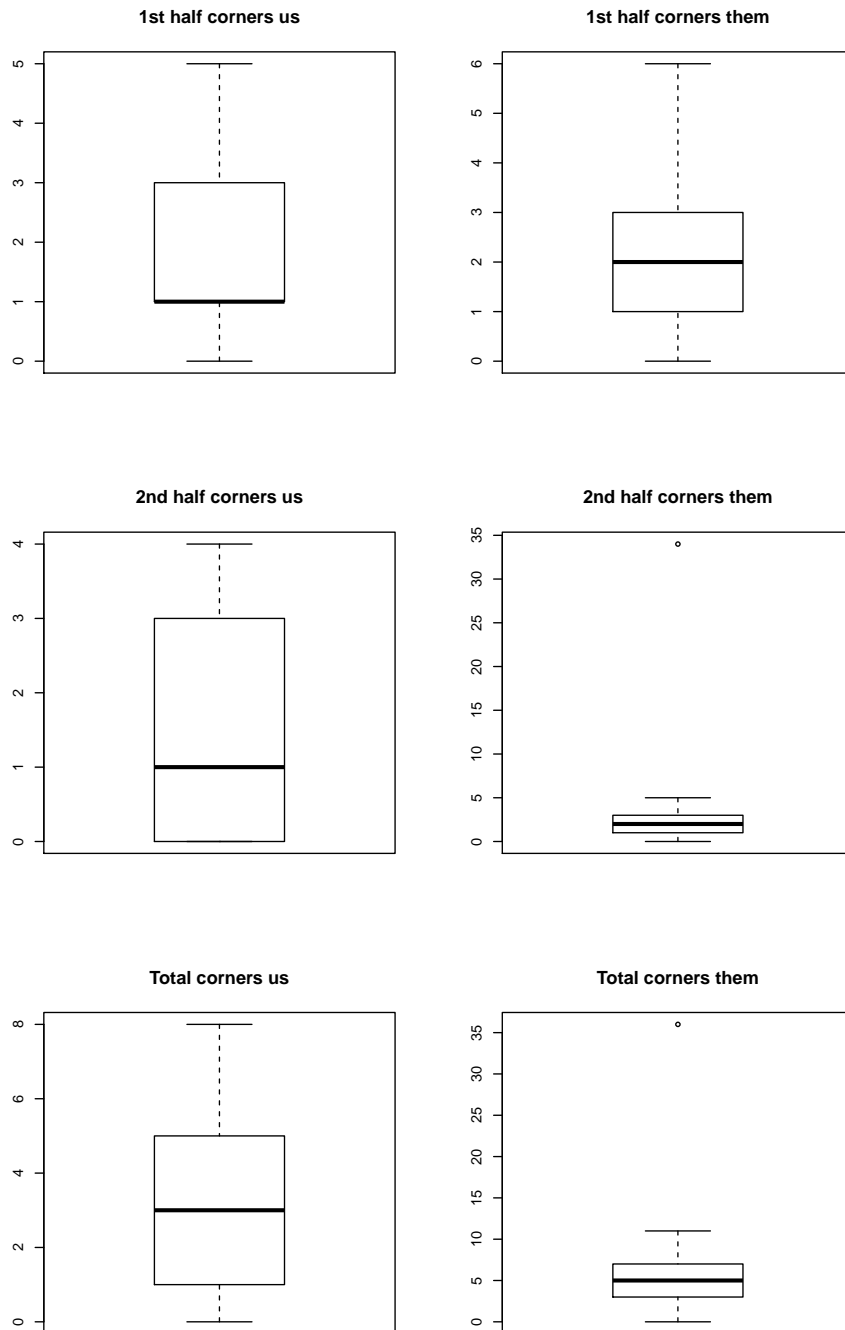
Total shots us



Total shots them

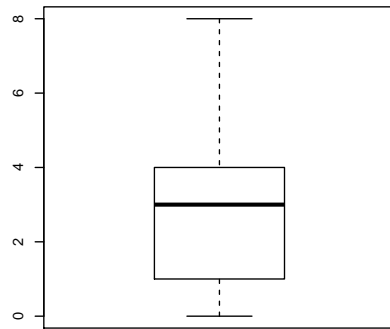


8.3 Corners

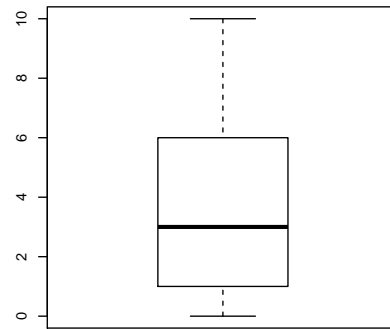


8.4 Saves

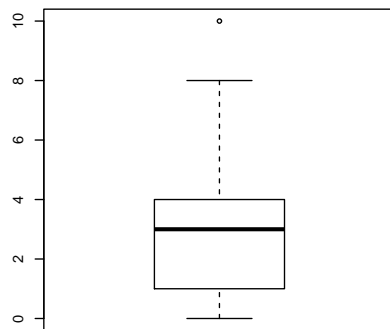
1st half saves us



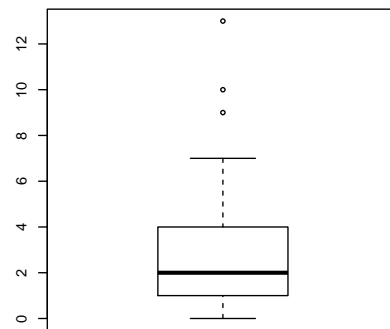
1st half saves them



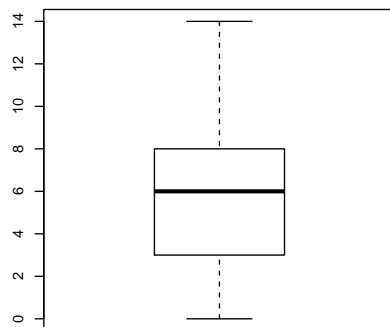
2nd half saves us



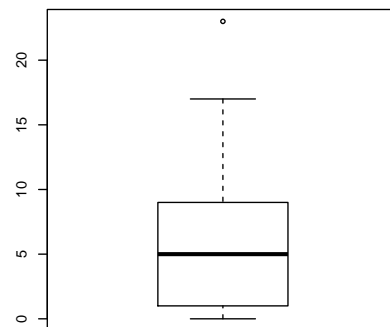
2nd half saves them



Total saves us

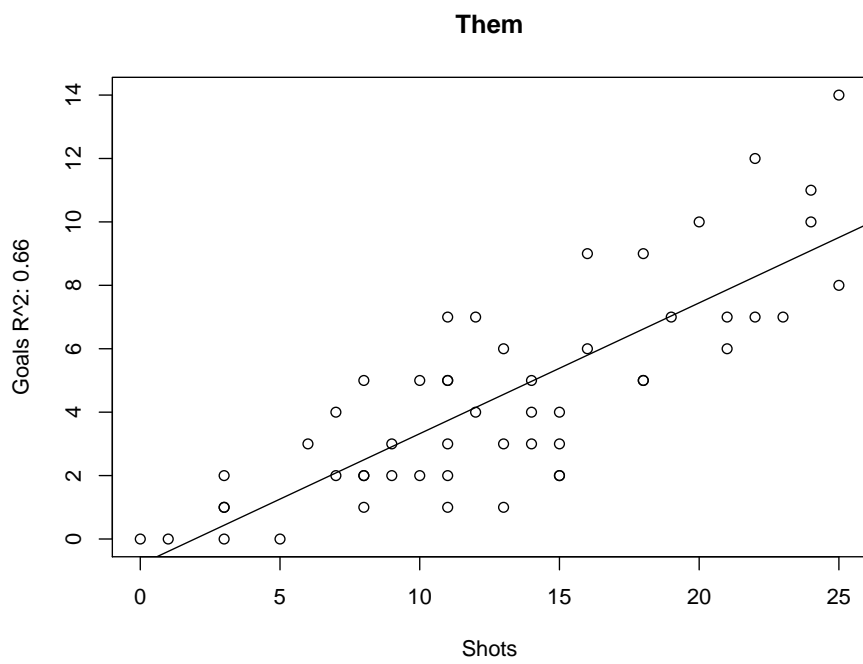
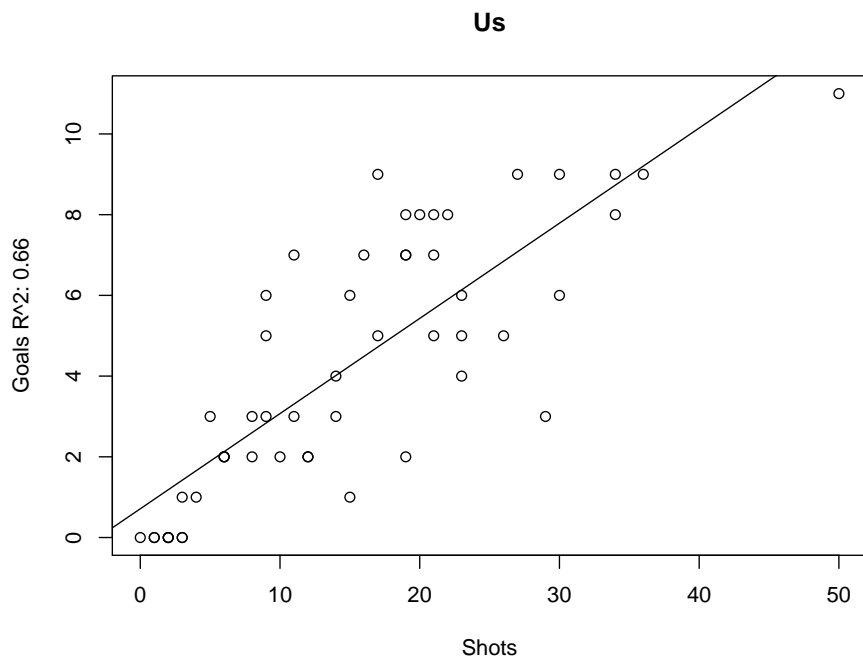


Total saves them

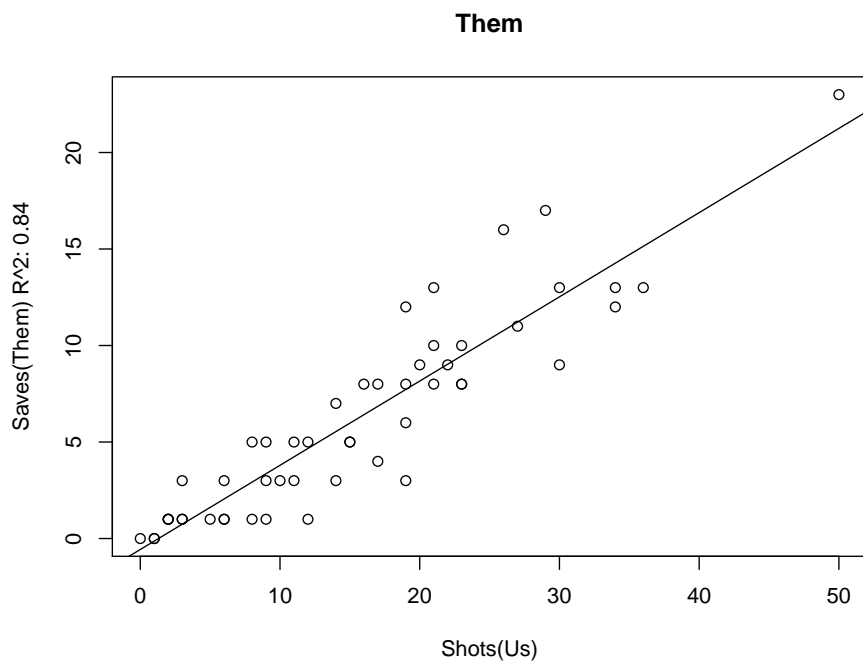
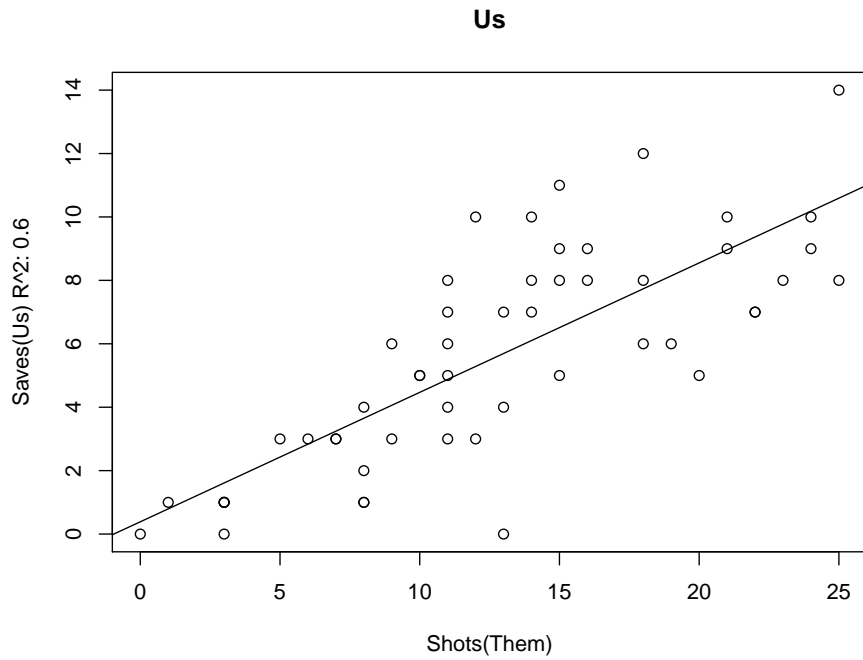


9 Correlations

9.1 Shots correlated with Goals



9.2 Saves correlated with Shots



9.3 Goals correlated with Corners

