WFA Soccer Stats Report

December 11, 2016

Report on the WFA soccer team.

Contents

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
```
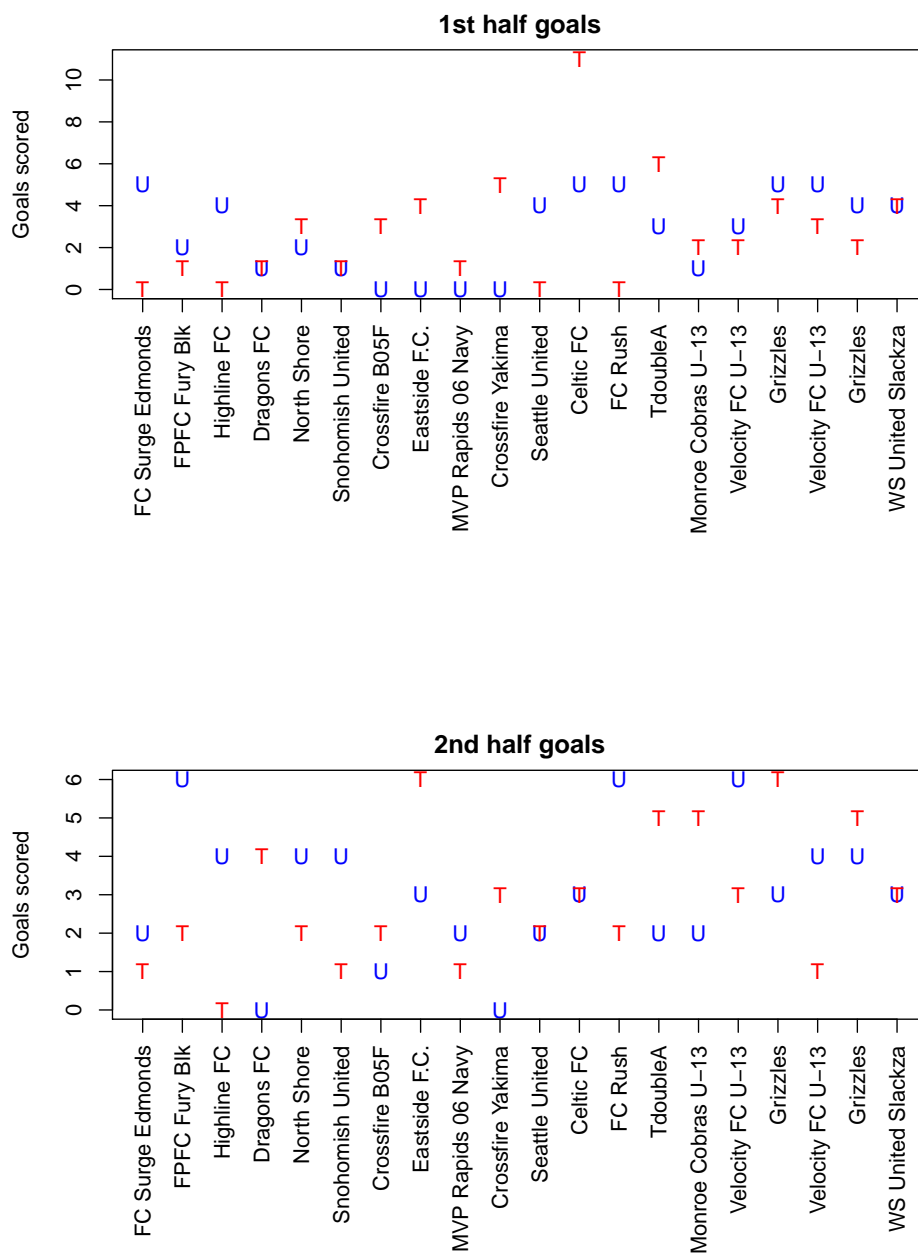
Data dictionary for the *CSV* file follows:

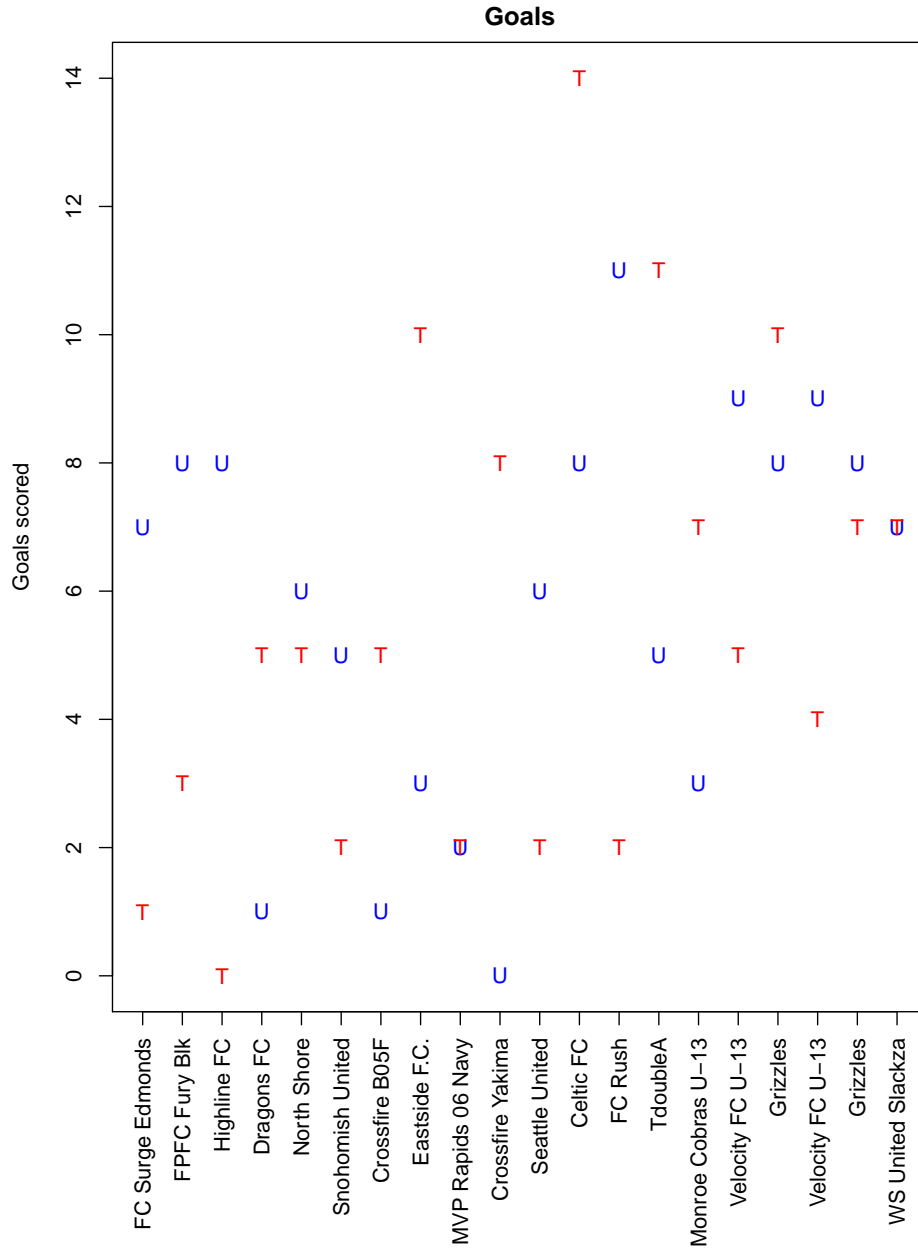| Field	Description	Type
Opponent	Who did we play?	Freeform text
Date	When did we play?	dd-mmm-YYYY (e.g. 12-Mar-2050)
Weather	What was the weather like?	Freeform text
Gametype	What kind of game was it?	Categorical data (Friendly,Tournament,League,Grudge match)
Field	How was the field?	Freeform text
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 $>= 0$

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.
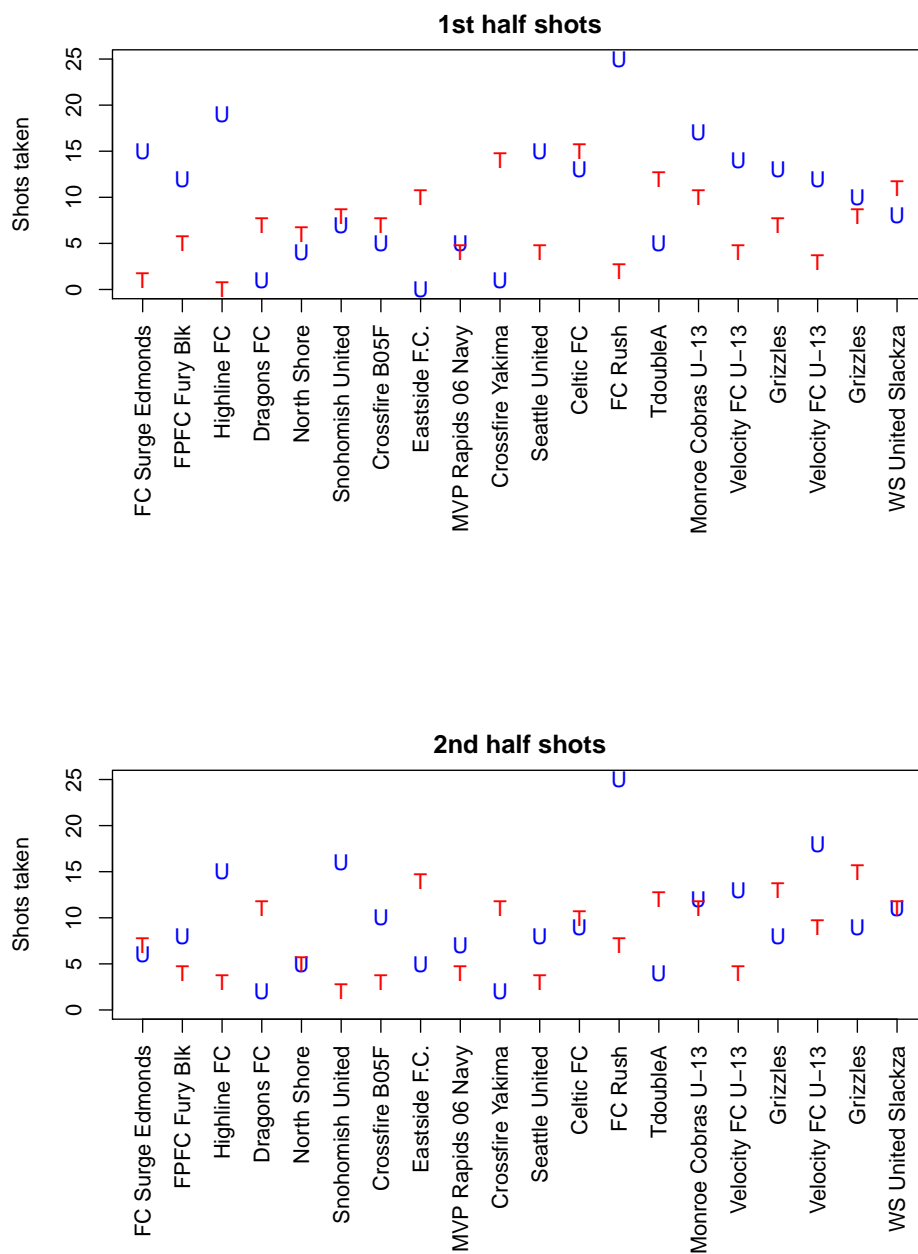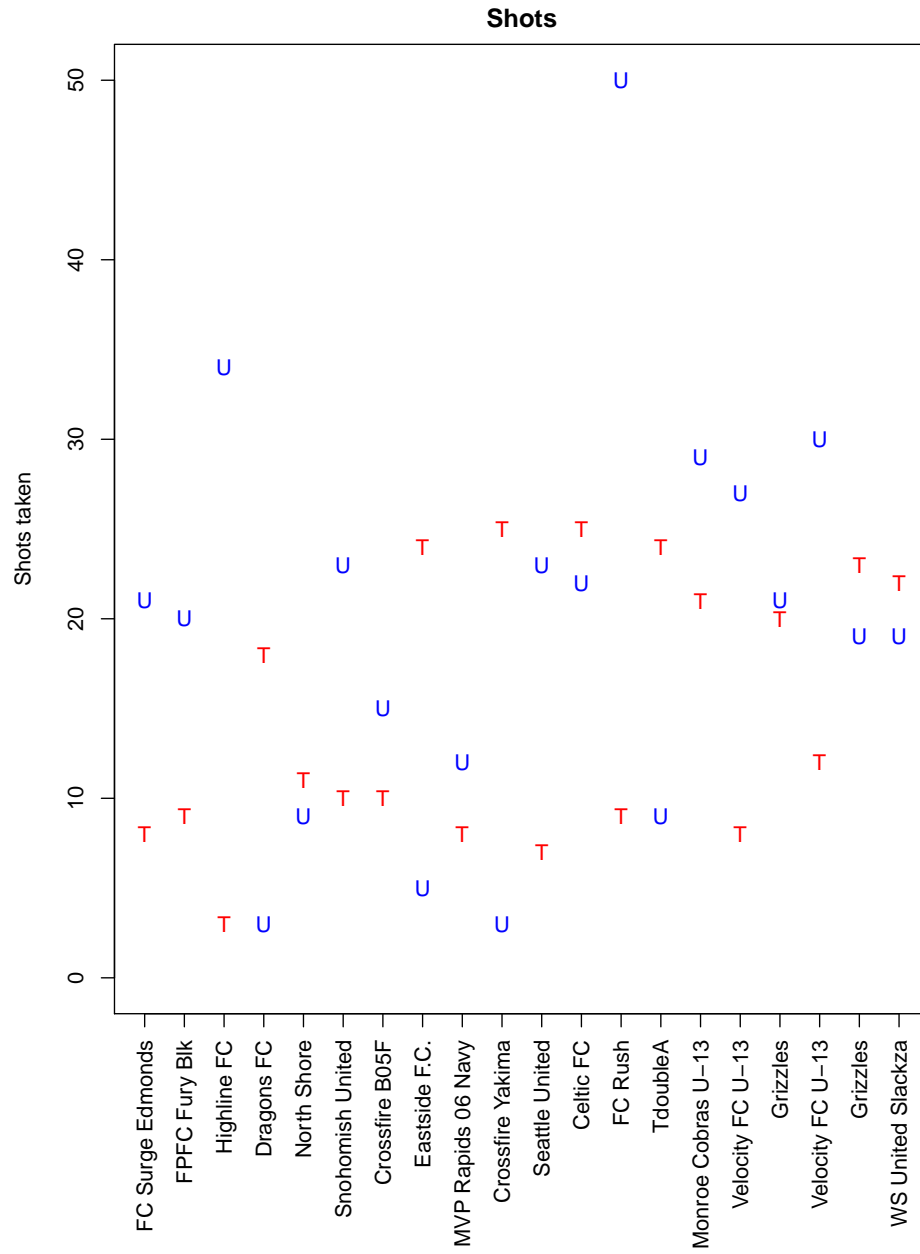
2 Goals

2.1 Halves

1st half goals

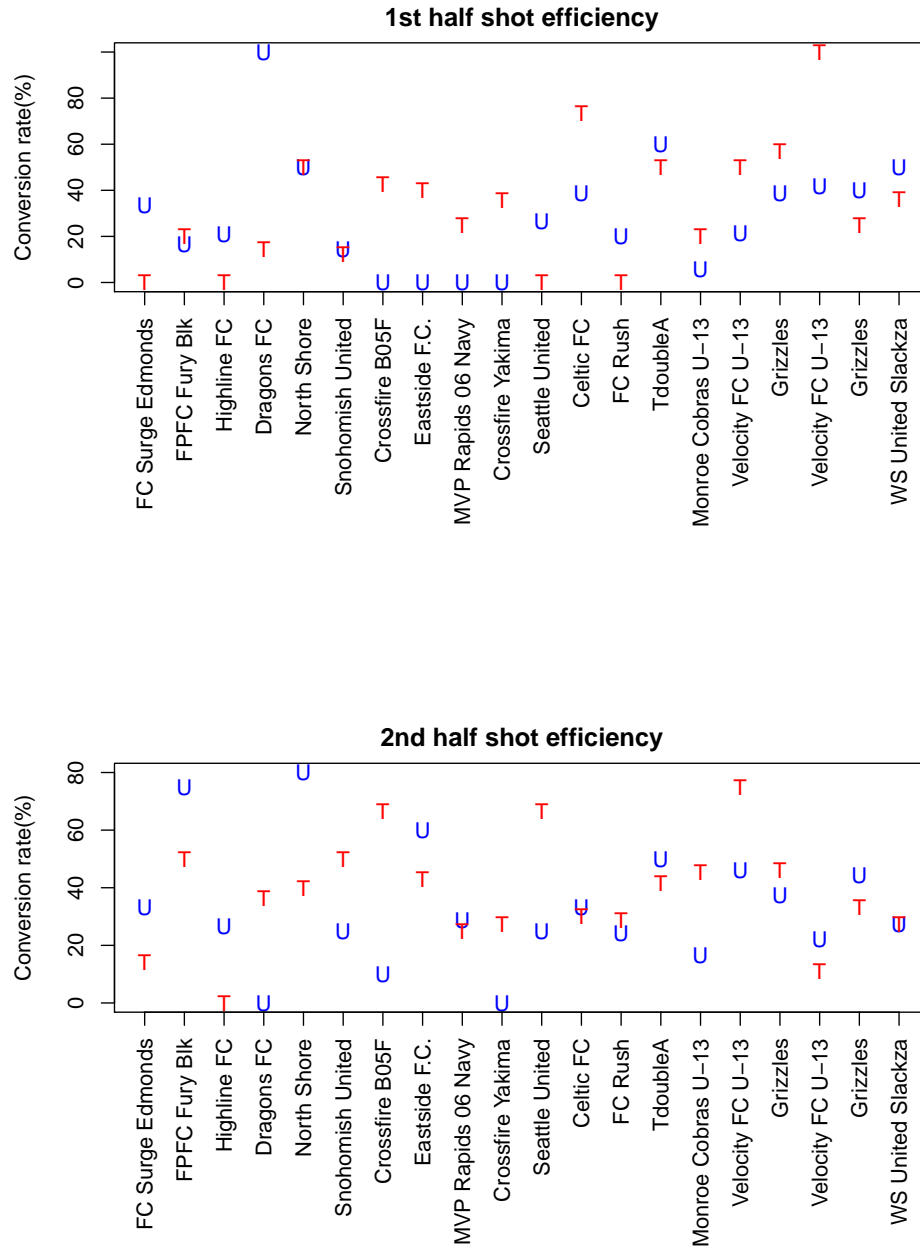**2nd half goals**

4

2.2 Total

Goals

3 Shots

3.1 Haves

1st half shots

2nd half shots

3.2 Total

Shots

4 Shot Efficiency

4.1 Halves

1st half shot efficiency

2nd half shot efficiency

4.2   Total

Shot efficiency

5 Corners

5.1 Halves

1st half corners

2nd half corners

10

5.2 Total
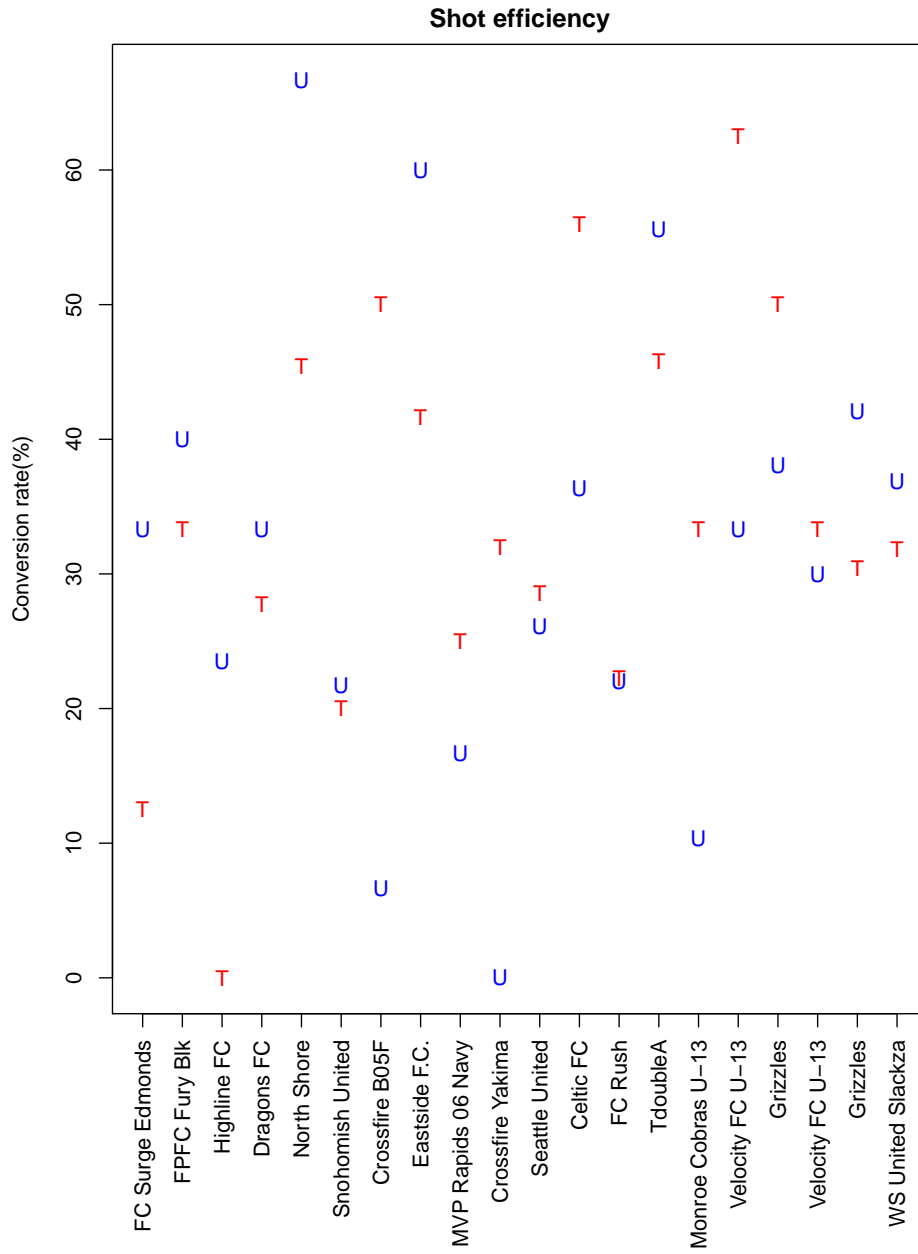
Corners

6 Saves
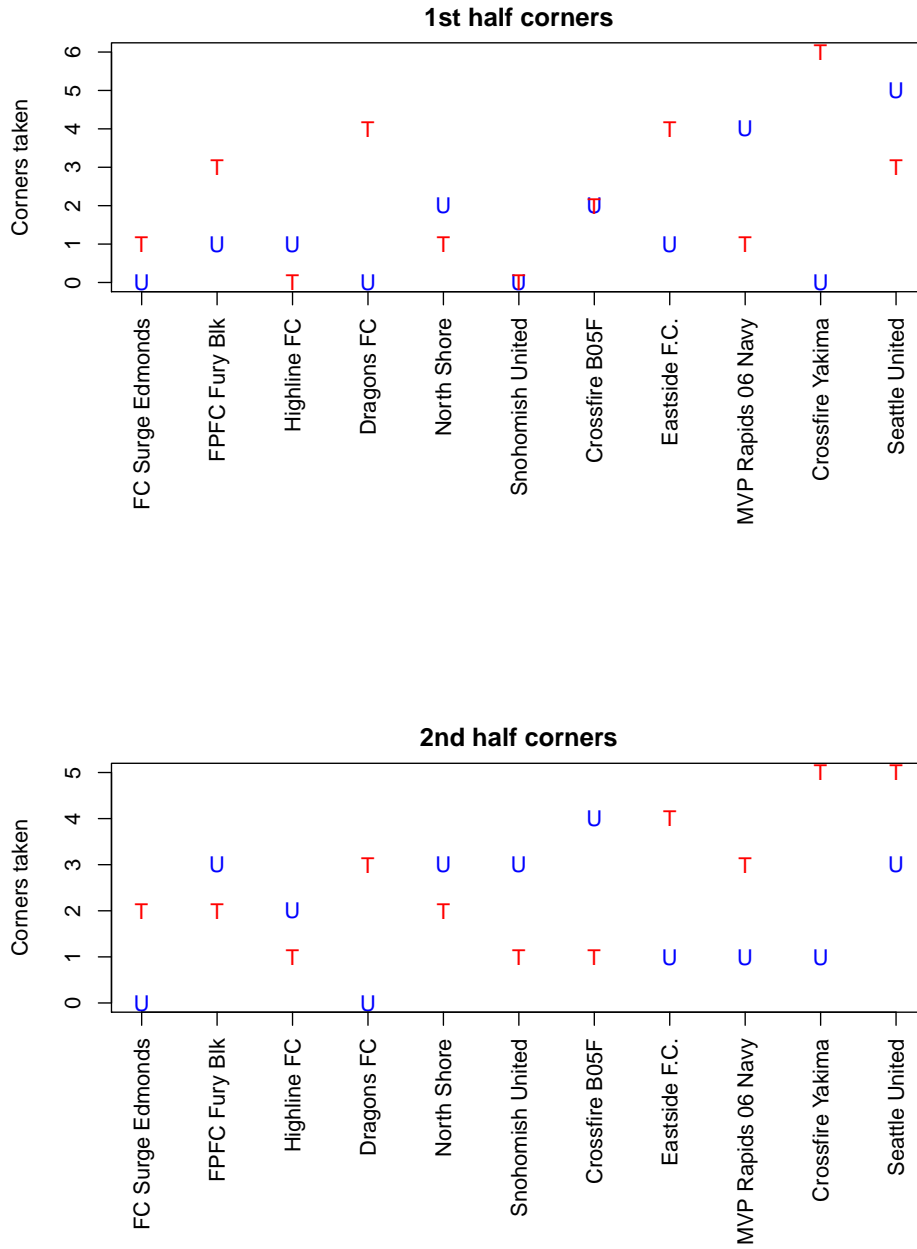
6.1 Halves
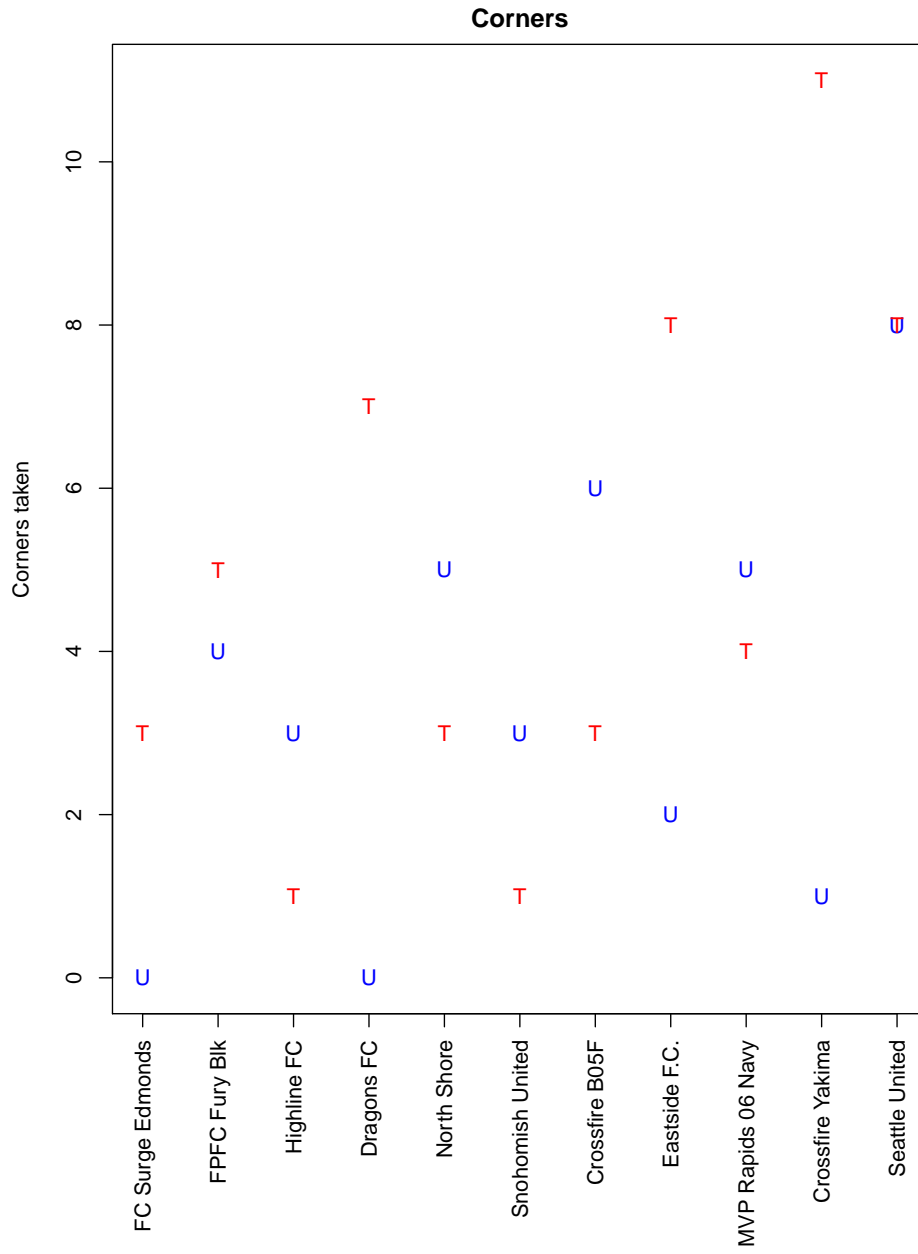
1st half saves

2nd half saves

6.2   Total

Saves
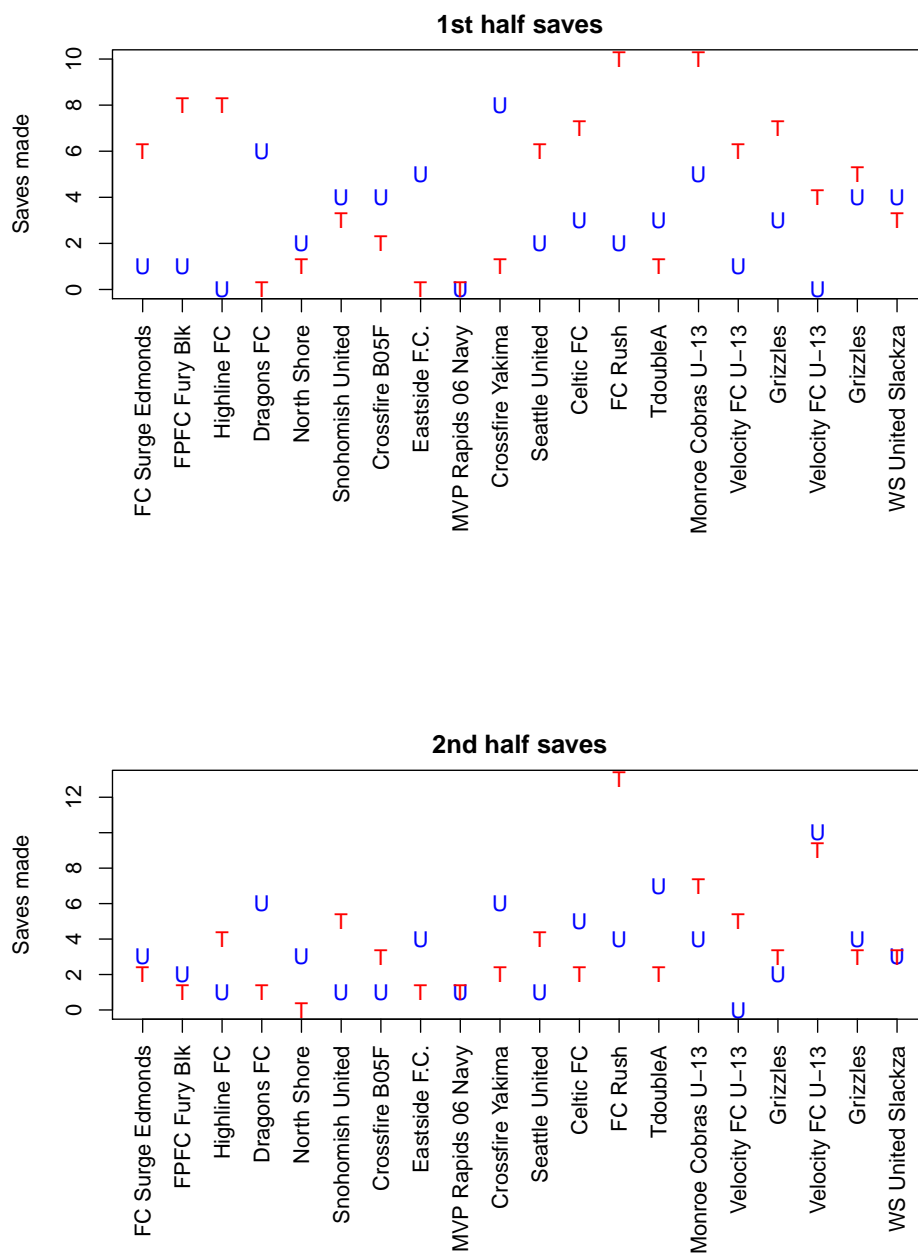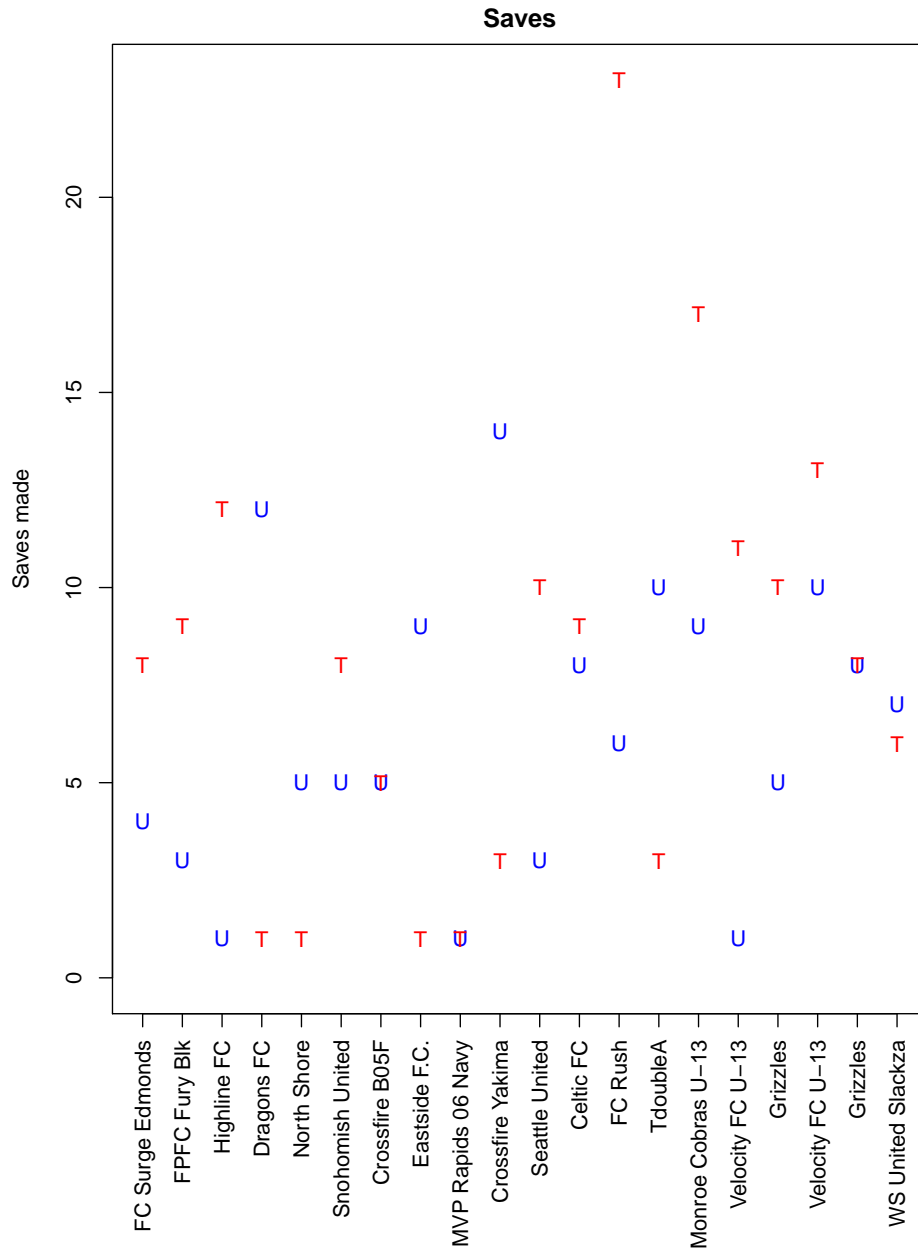
7 Statistics

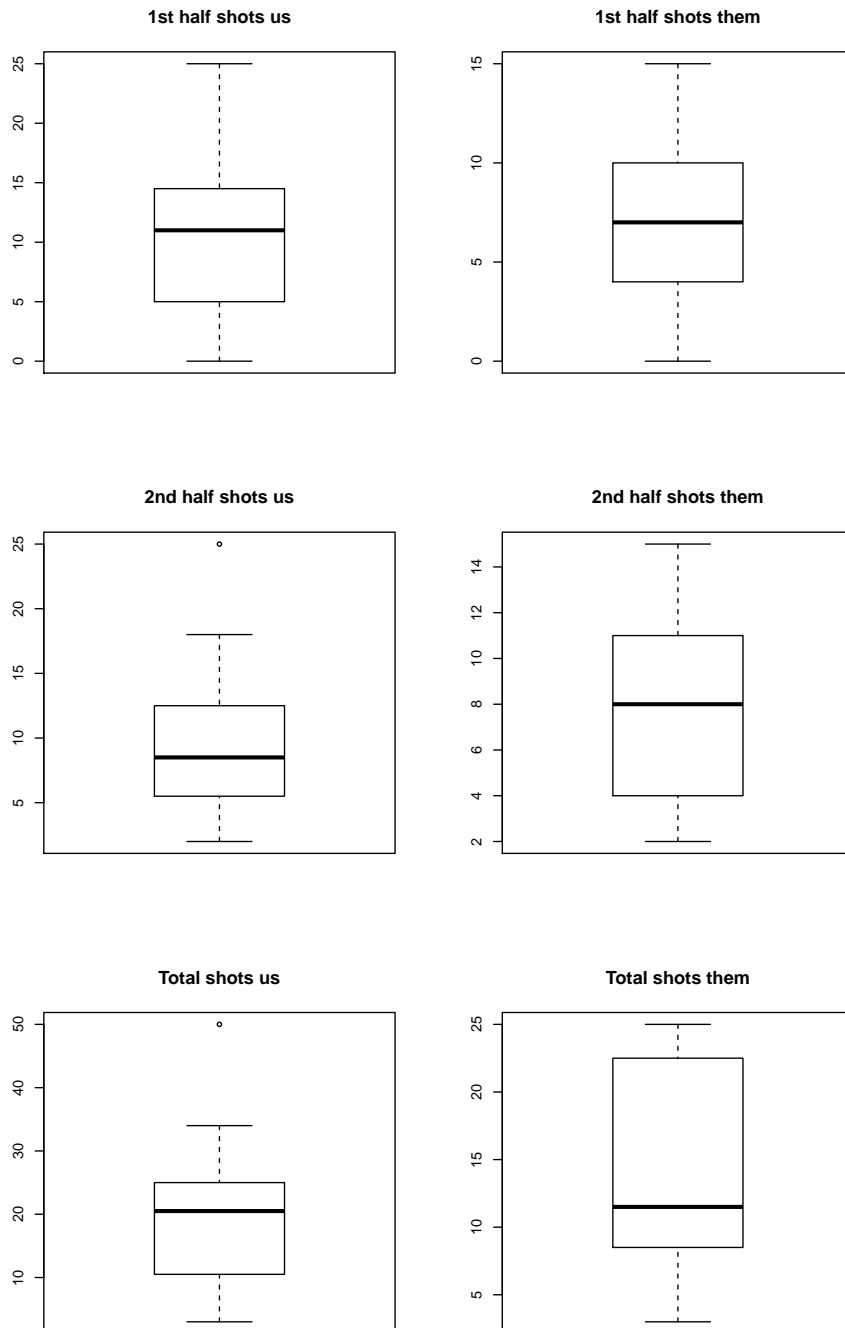| Metric	Mean	Median	Total	Min	Max
1st half goals(us)	2.7	3	54	0	5
2nd half goals(us)	3	3	61	0	6
Goals(us)	5.8	6.5	115	0	11
1st half goals(them)	2.6	2	53	0	11
2nd half goals(them)	2.8	2.5	57	0	6
Goals(them)	5.5	5	110	0	14
1st half shots(us)	10.1	11	201	0	25
2nd half shots(us)	9.7	8.5	193	2	25
Shots(us)	19.7	20.5	394	3	50
1st half shots(them)	6.9	7	138	0	15
2nd half shots(them)	8	8	159	2	15
Shots(them)	14.8	11.5	297	3	25
1st half corners(us)	1.5	1	16	0	5
2nd half corners(us)	1.9	2	21	0	4
Corners(us)	3.4	3	37	0	8
1st half corners(them)	2.3	2	25	0	6
2nd half corners(them)	2.6	2	29	1	5
Corners(them)	4.9	4	54	1	11
1st half saves(us)	2.9	3	58	0	8
2nd half saves(us)	3.4	3	68	0	10
Saves(us)	6.3	5.5	126	1	14
1st half saves(them)	4.4	4.5	88	0	10
2nd half saves(them)	3.5	3	71	0	13
Saves(them)	8	8	159	1	23

Statistics are based on **20** games. With an overall record of **10** wins, **8** losses, and **2** draws.
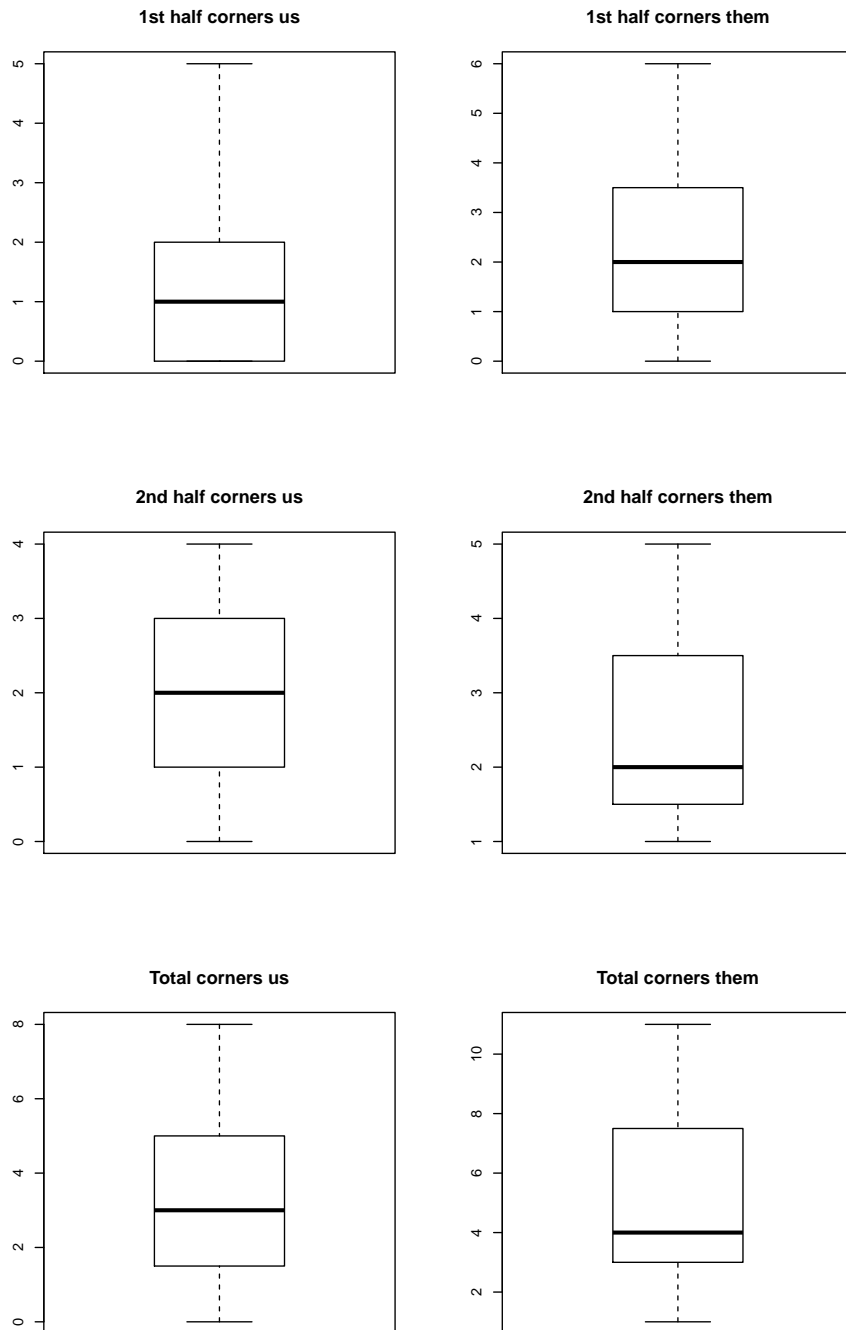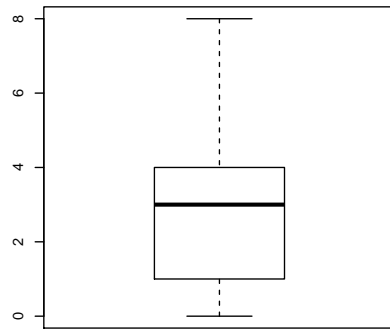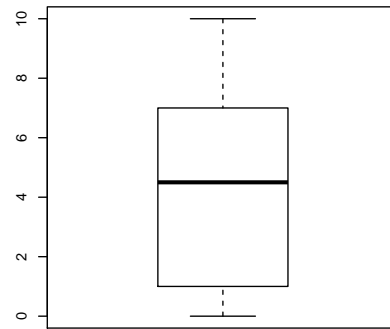
8 Distributions

8.1 Goals

1st half goals us

1st half goals them

2nd half goals us

2nd half goals them

Total goals us

Total goals them

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

1st half corners us

1st half corners them

2nd half corners us

2nd half corners them

Total corners us
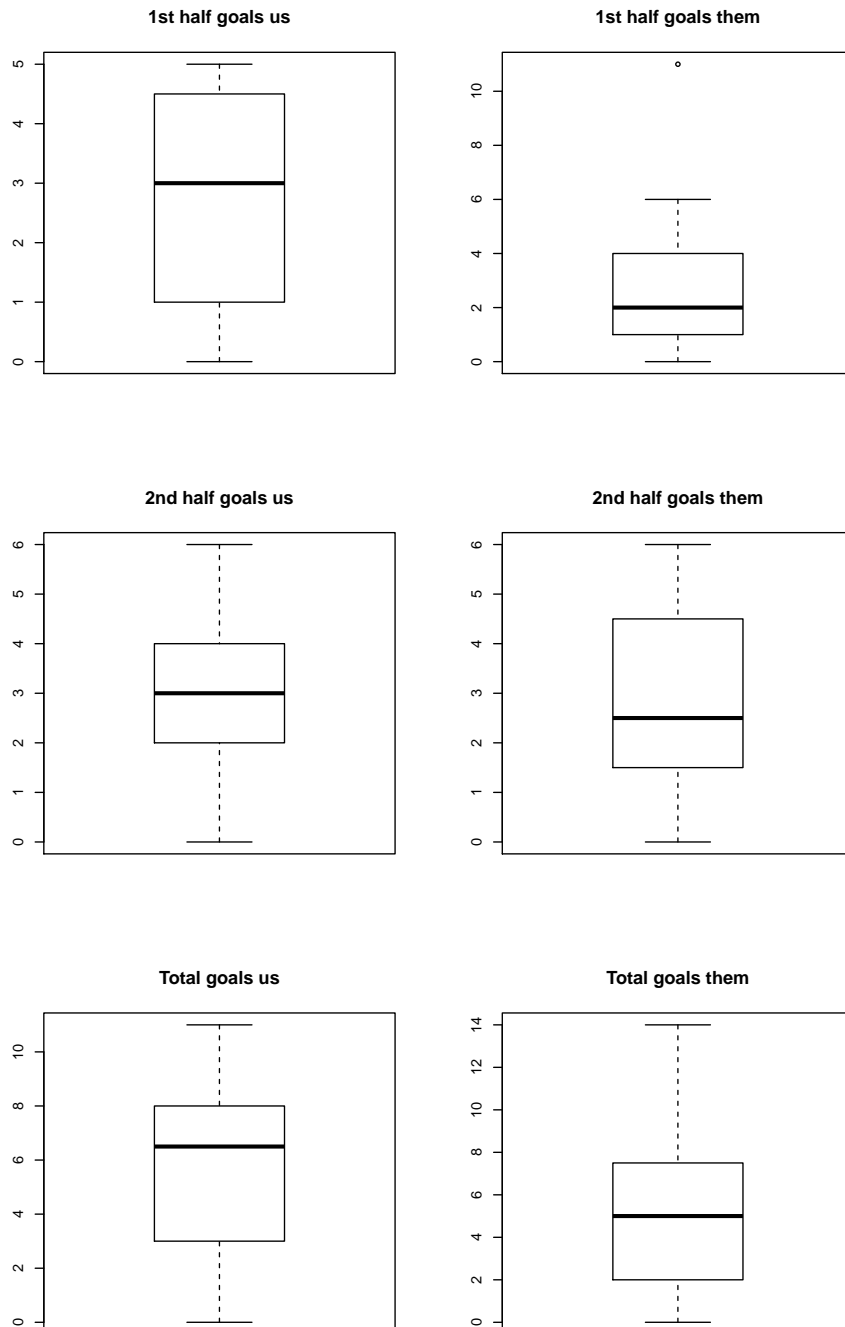
Total corners them

8.4   Saves

1st half saves us
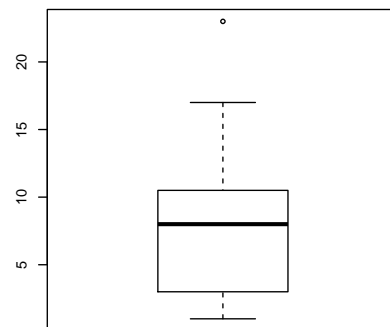
1st half saves them

2nd half saves us
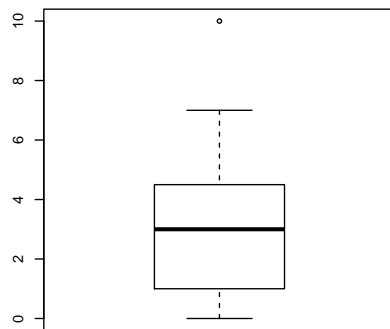
2nd half saves them
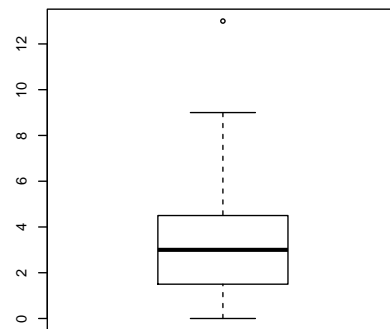
Total saves us

Total saves them

18
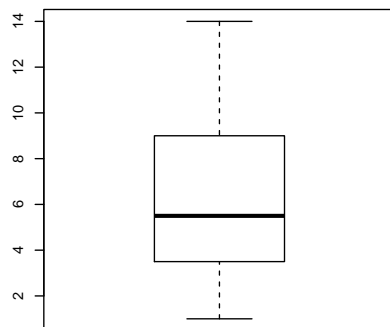
9 Correlations

9.1 Shots correlated with Goals

Us

Them
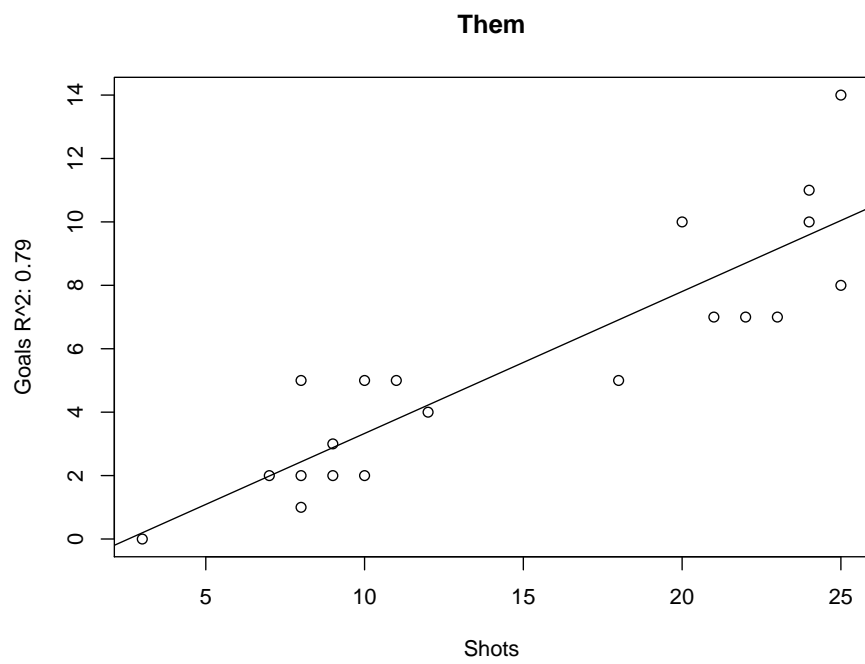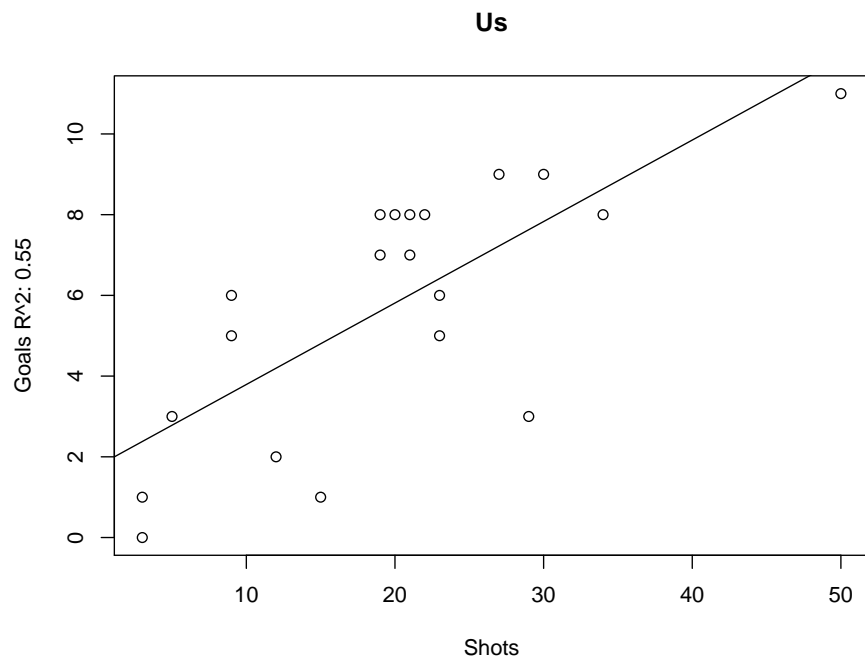
9.2   Saves correlated with Shots

Us

Them
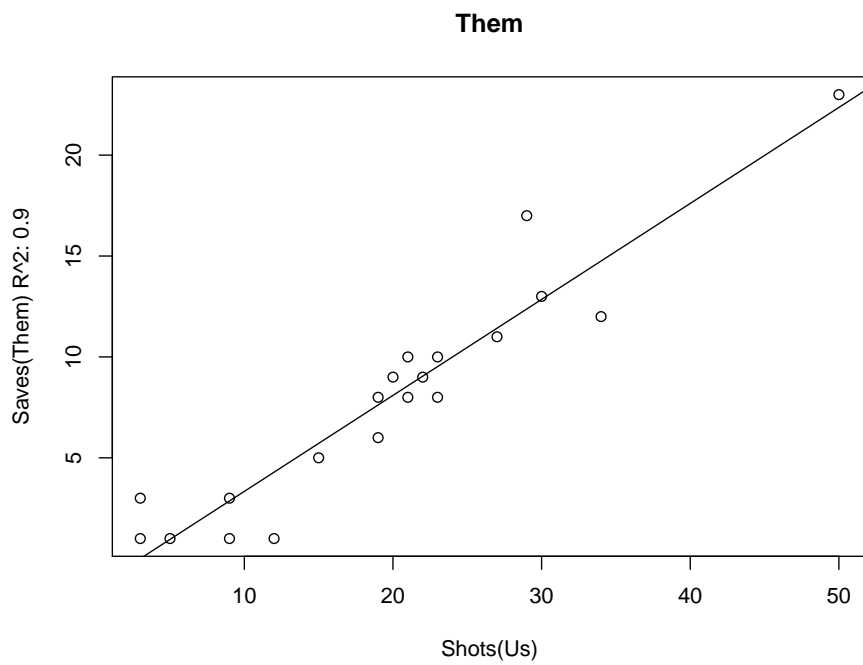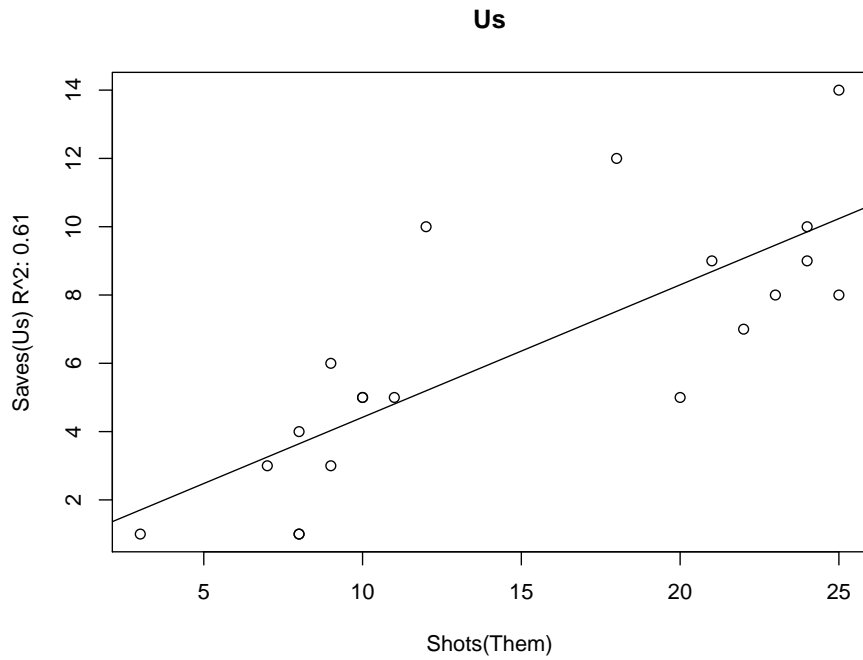
9.3   Goals correlated with Corners

Us

Them