# WFA Soccer Stats Report

March 11, 2017

Report on the WFA soccer team.

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| <b>2</b> | Goals             |   |   |  |  |  |  |  |  |
|          | 2.1               | Halves  | 4 |  |  |  |  |  |  |
|          | 2.2               | Total   | 5 |  |  |  |  |  |  |
| 3        | Sho               | 5   | 6 |  |  |  |  |  |  |
|          | 3.1               | Haves   | 6 |  |  |  |  |  |  |
|          | 3.2               | $\hbox{\it Total} \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $ | 7 |  |  |  |  |  |  |
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|          | 4.1               | Halves  | 8 |  |  |  |  |  |  |
|          | 4.2               | Total   | 9 |  |  |  |  |  |  |
| 5        | Corners 10        |   |   |  |  |  |  |  |  |
|          | 5.1               | Halves  | 0 |  |  |  |  |  |  |
|          | 5.2               | Total   | 1 |  |  |  |  |  |  |
| 6        | Saves 12          |   |   |  |  |  |  |  |  |
|          | 6.1               | Halves  | 2 |  |  |  |  |  |  |
|          | 6.2               | Total   | 3 |  |  |  |  |  |  |
| 7        | Stat              | stics 1   | 4 |  |  |  |  |  |  |
| 8        | Dist              | ibutions 1  | 5 |  |  |  |  |  |  |
|          | 8.1               | Goals   | 5 |  |  |  |  |  |  |
|          | 8.2               | Shots   | 6 |  |  |  |  |  |  |
|          | 8.3               | Corners   | 7 |  |  |  |  |  |  |
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|          | 9.1               | Shots correlated with Goals                               | 9 |  |  |  |  |  |  |
|          | 9.2               |   | 0 |  |  |  |  |  |  |
|          | 9.3               | Goals correlated with Corners                             | 1 |  |  |  |  |  |  |

#### 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

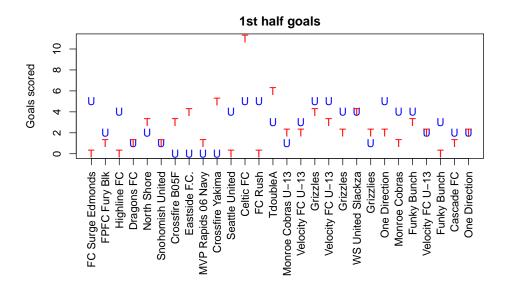
Data dictionary for the CSV file follows:

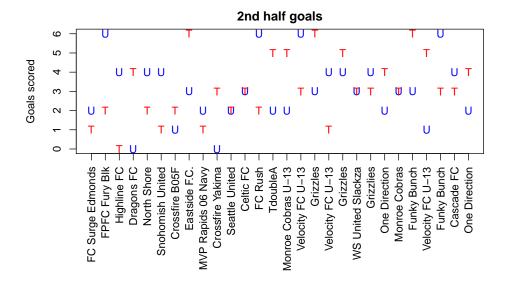
| ${f Field}$      | Description                | Type  |  |
|------------------|----------------------------|---|--|
|                  |                            |   |  |
| Opponent         | Who did we play?           | Freeform text   |  |
| Date             | When did we play?          | dd-mmm-YYYY (e.g. 12-Mar-2050)  |  |
| Weather          | What was the weather like? | Freeform text   |  |
| Gametype         | What kind of game was it?  | $Categorical\ data ({\tiny \tt Friendly, Tournament, League, Grudge\ match})$ |  |
| $\mathbf{Field}$ | How was the field?         | Freeform text   |  |
| $1 \mathrm{GU}$  | 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 $>= 0$   |  |
| $1 \mathrm{ShU}$ | 1st half shots us          | whole number $>= 0$   |  |
| $1\mathrm{ShT}$  | 1st half shots them        | whole number $>= 0$   |  |
| $2\mathrm{ShU}$  | 2nd half shots us          | whole number $>= 0$   |  |
| $2\mathrm{ShT}$  | 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 $>= 0$   |  |
| ${f Addenda}$    | Any additional info        | Freeform text   |  |

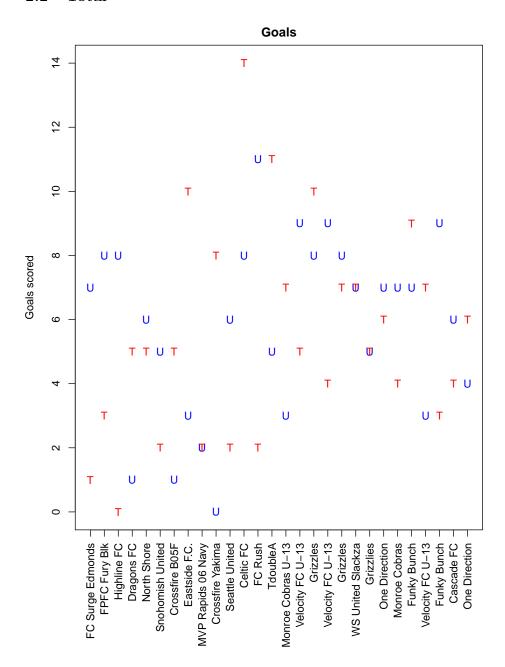
**NB:** Since indoor soccer does not have corners, the *CSV* file needs to be correctly edited for indoor games. Indoor matches are removed from graphing and calculations when the *Weather* column is set to *Indoor* and if the 4 corner fields–1*CU*, 1*CT*, 2*CU*, and 2*CT*–are set to empty.

### 2 Goals

#### 2.1 Halves

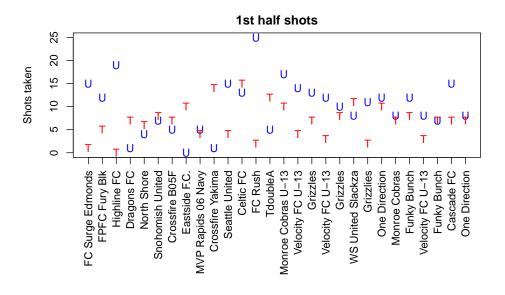


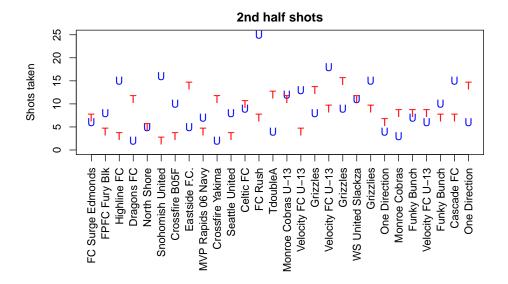


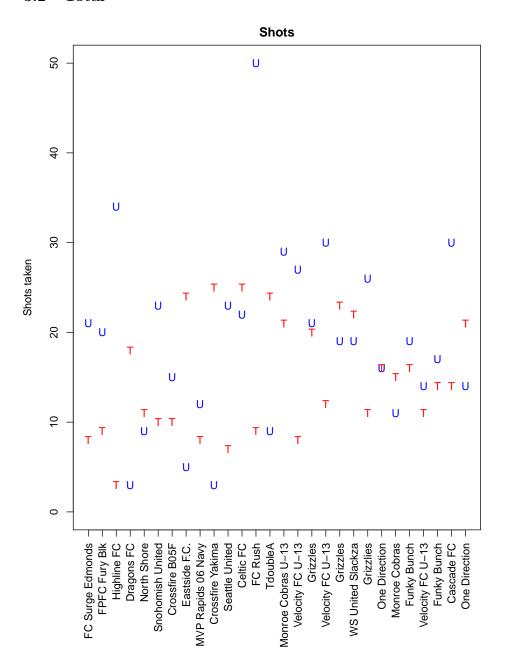


### 3 Shots

#### 3.1 Haves

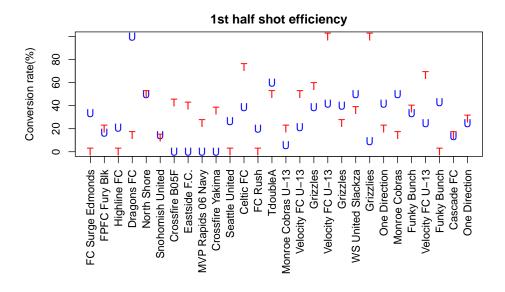


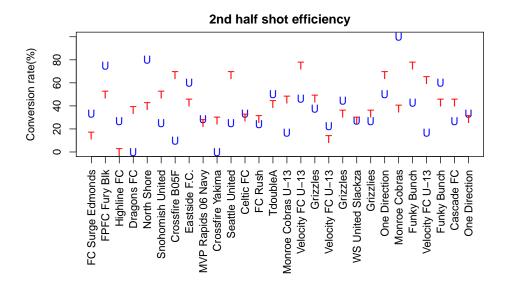


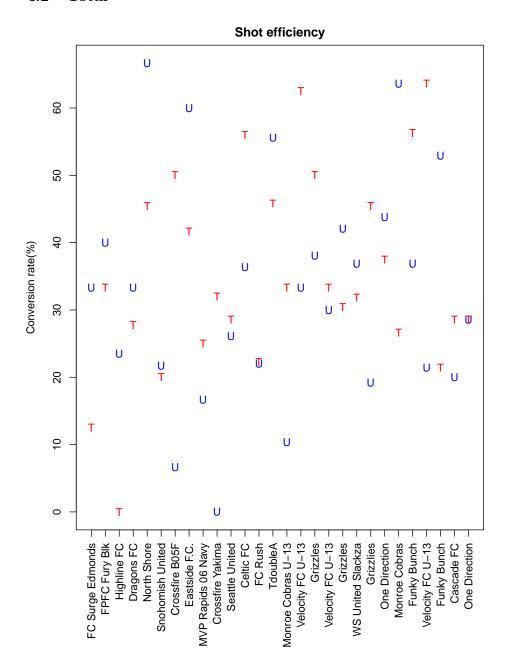


### 4 Shot Efficiency

#### 4.1 Halves

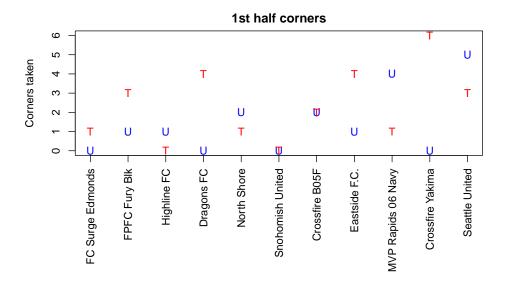


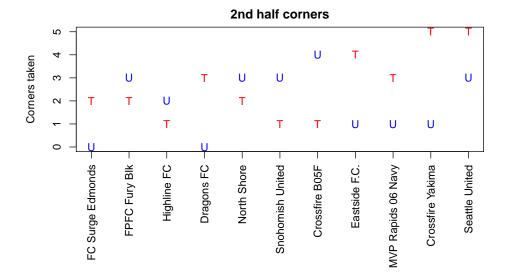


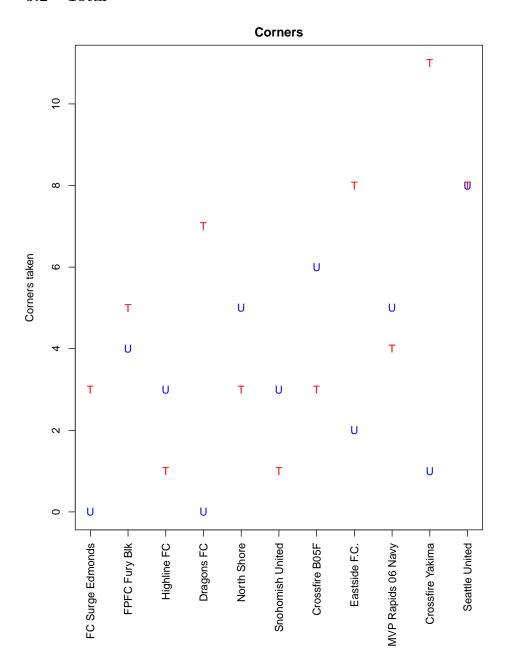


## 5 Corners

## 5.1 Halves

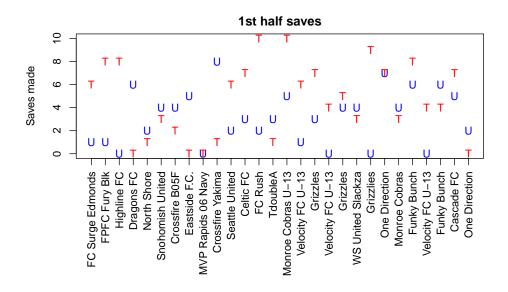


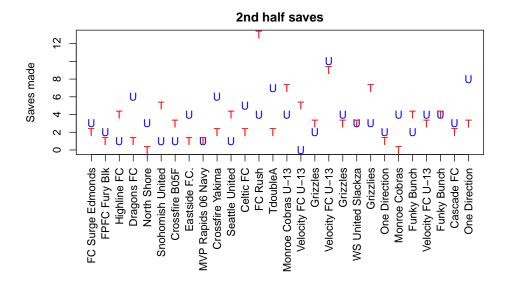


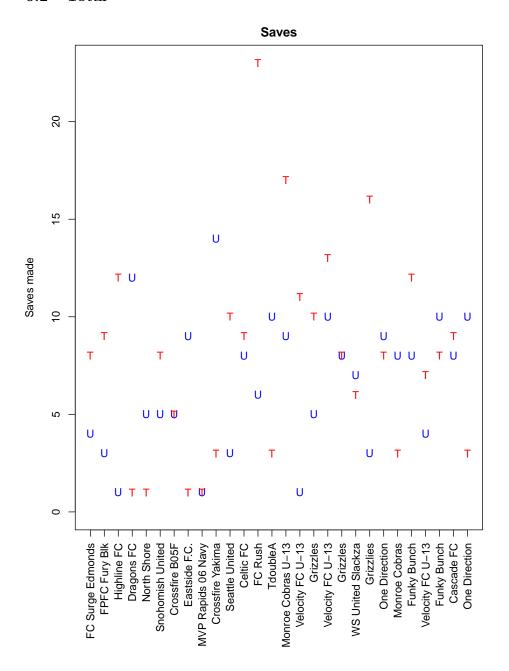


### 6 Saves

#### 6.1 Halves







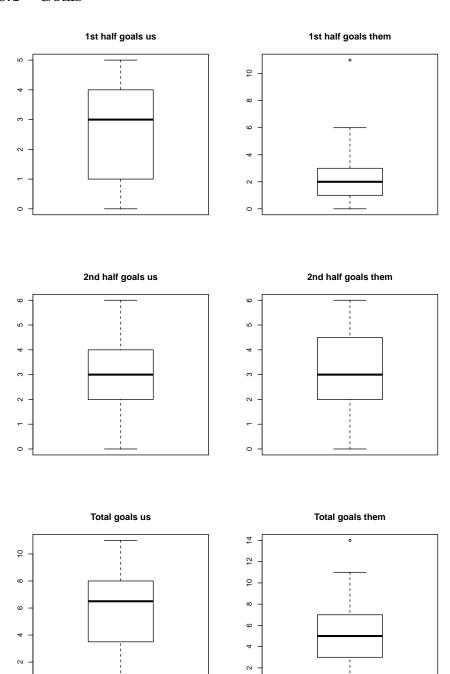
## 7 Statistics

| Metric                 | Mean | Median | Total | Min | Max |
|------------------------|------|--------|-------|-----|-----|
| 1st half goals(us)     | 2.8  | 3      | 77    | 0   | 5   |
| 2nd half goals(us)     | 3.1  | 3      | 86    | 0   | 6   |
| Goals(us)              | 5.8  | 6.5    | 163   | 0   | 11  |
|                        |      |        |       |     |     |
| 1st half goals(them)   | 2.4  | 2      | 66    | 0   | 11  |
| 2nd half goals(them)   | 3.1  | 3      | 88    | 0   | 6   |
| Goals(them)            | 5.5  | 5      | 154   | 0   | 14  |
|                        |      |        |       |     |     |
| 1st half shots(us)     | 10.1 | 10.5   | 282   | 0   | 25  |
| 2nd half shots(us)     | 9.2  | 8      | 259   | 2   | 25  |
| Shots(us)              | 19.3 | 19     | 541   | 3   | 50  |
|                        |      |        |       |     |     |
| 1st half shots(them)   | 6.8  | 7      | 189   | 0   | 15  |
| 2nd half shots(them)   | 8.1  | 8      | 226   | 2   | 15  |
| Shots(them)            | 14.8 | 14     | 415   | 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)     | 3.1  | 3      | 88    | 0   | 8   |
| 2nd half saves(us)     | 3.5  | 3      | 98    | 0   | 10  |
| Saves(us)              | 6.6  | 7.5    | 186   | 1   | 14  |
| 1-+ 1-16(+1)           | 4.0  | 4 5    | 190   | 0   | 10  |
| 1st half saves(them)   | 4.6  | 4.5    | 130   | 0   | 10  |
| 2nd half saves(them)   | 3.4  | 3      | 95    | 0   | 13  |
| Saves(them)            | 8    | 8      | 225   | 1   | 23  |

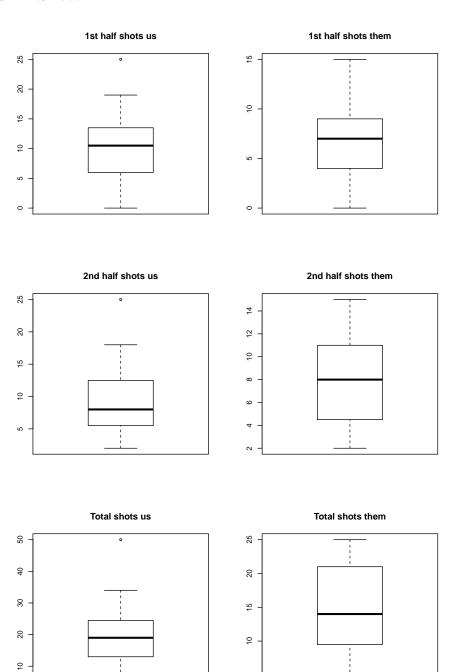
Statistics are based on  ${\bf 28}$  games. With an overall record of  ${\bf 14}$  wins,  ${\bf 11}$  losses, and  ${\bf 3}$  draws.

## 8 Distributions

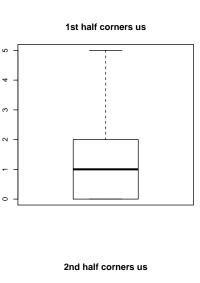
### 8.1 Goals

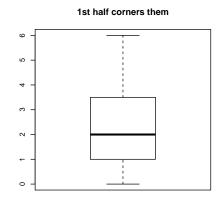


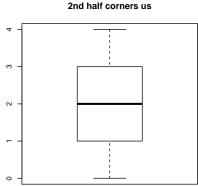
### 8.2 Shots

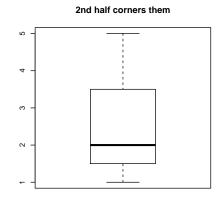


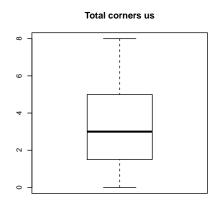
### 8.3 Corners

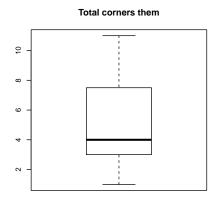




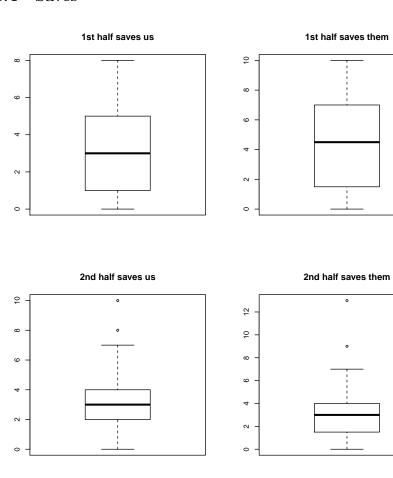


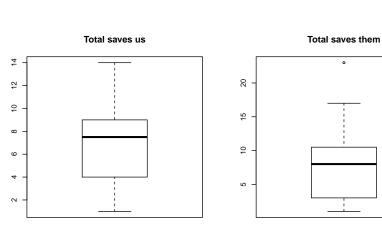






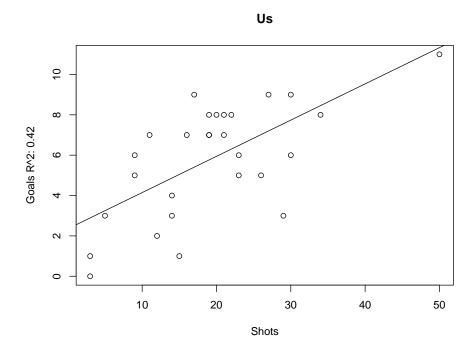
### 8.4 Saves

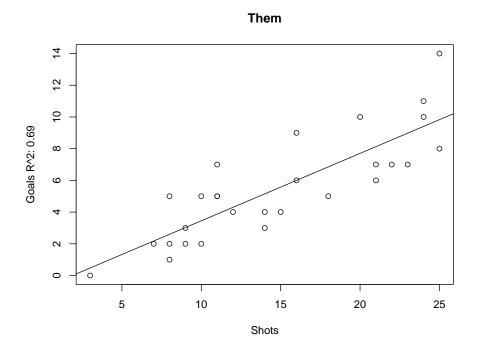




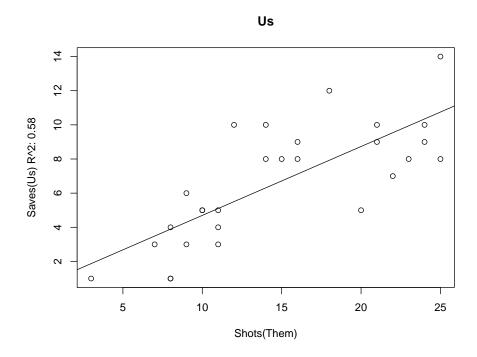
## 9 Correlations

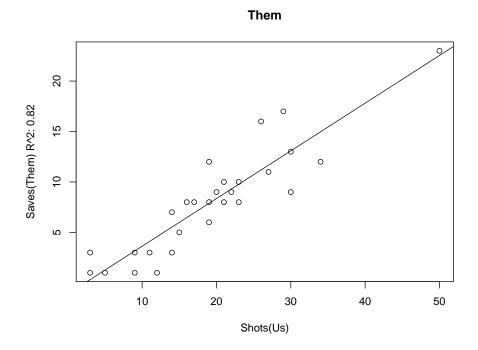
### 9.1 Shots correlated with Goals





### 9.2 Saves correlated with Shots





## 9.3 Goals correlated with Corners

