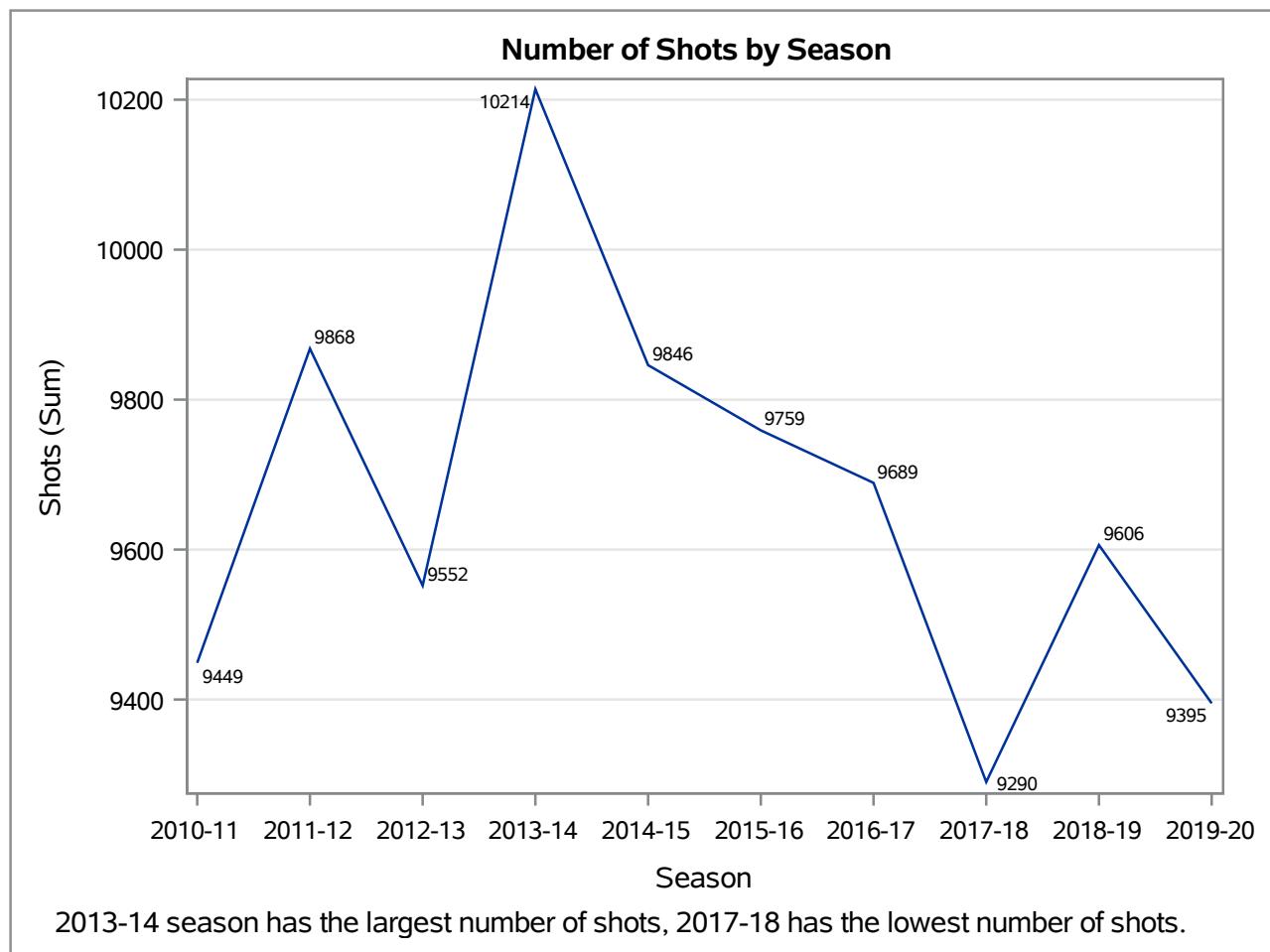
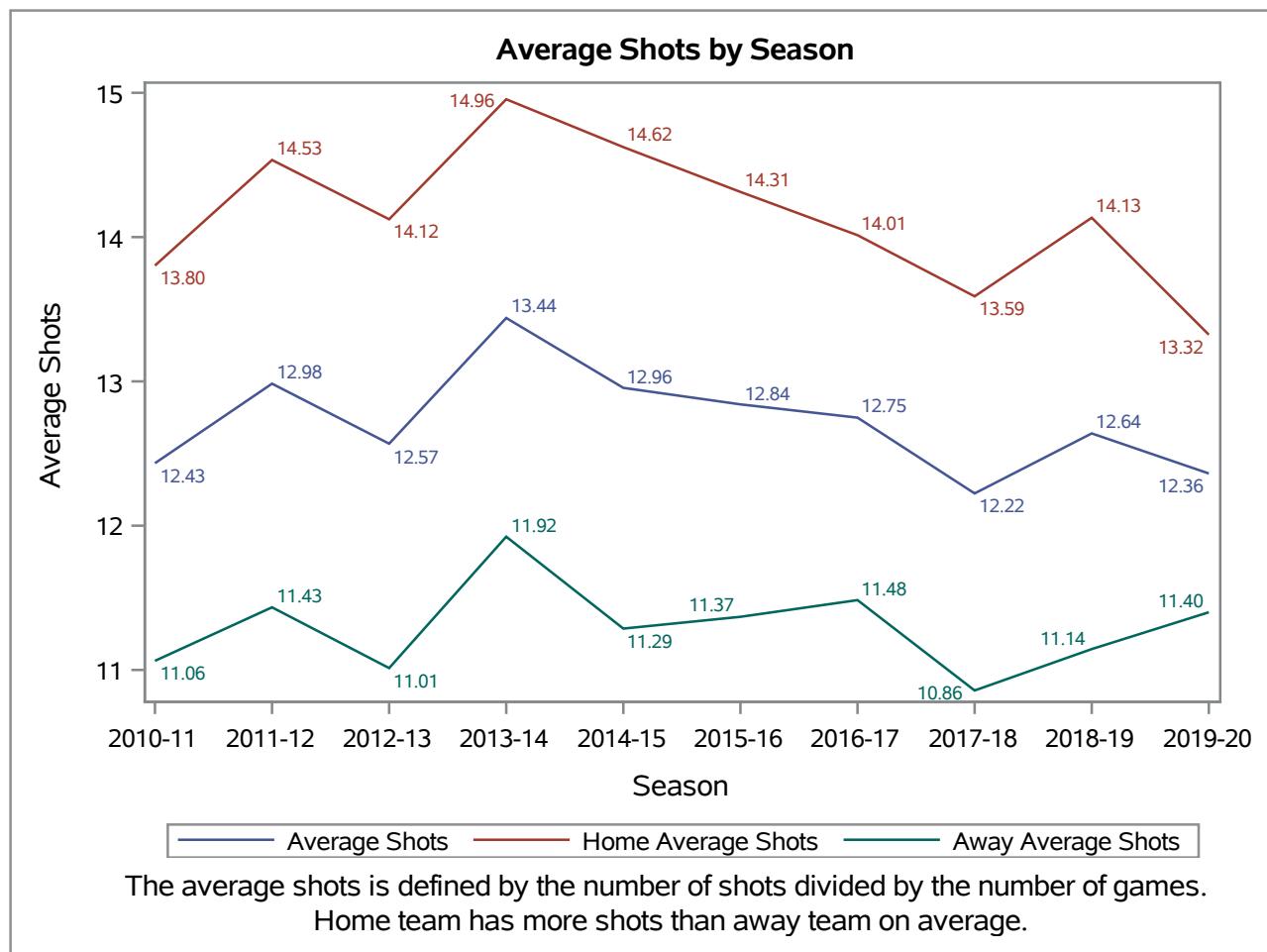
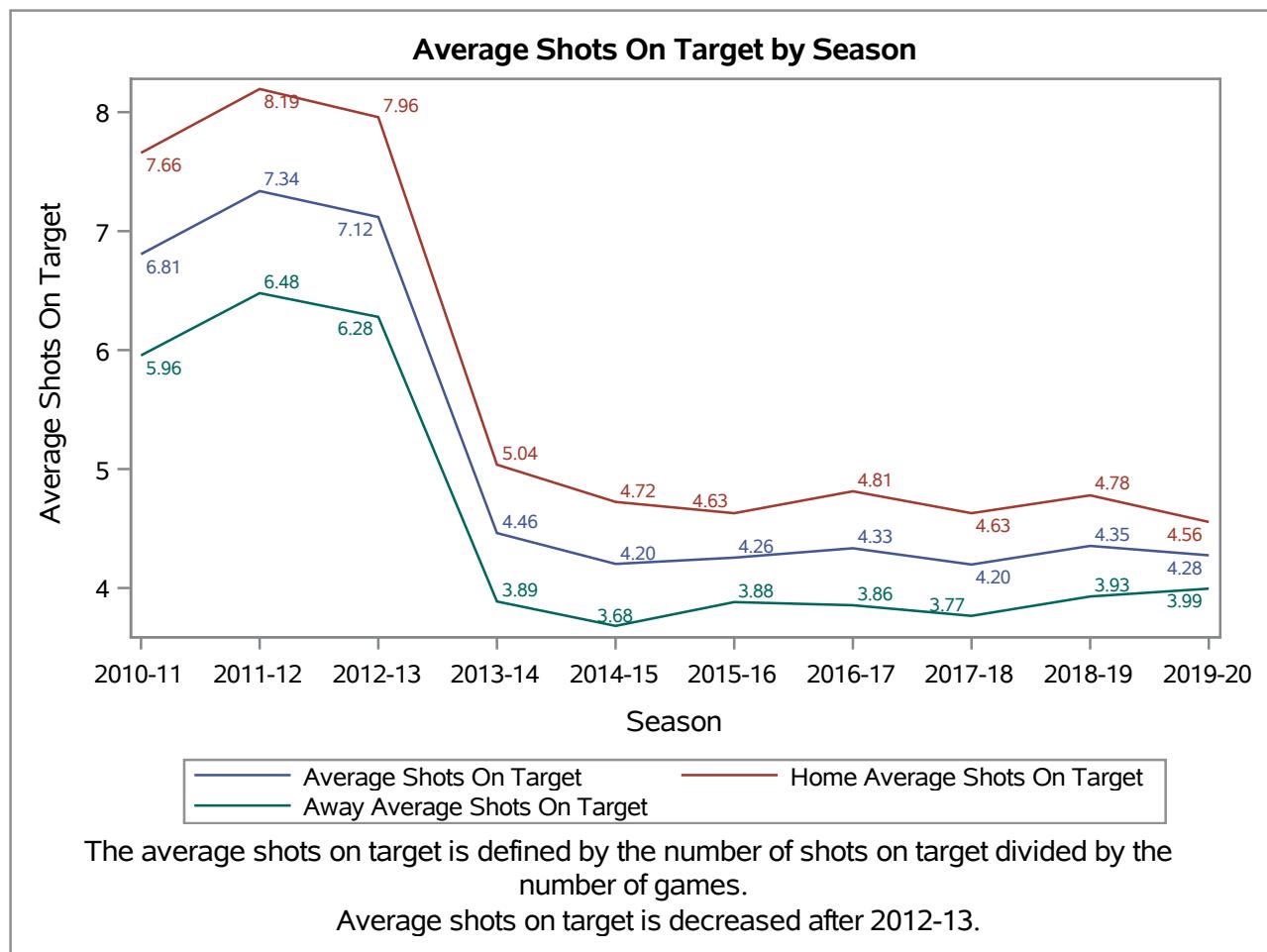


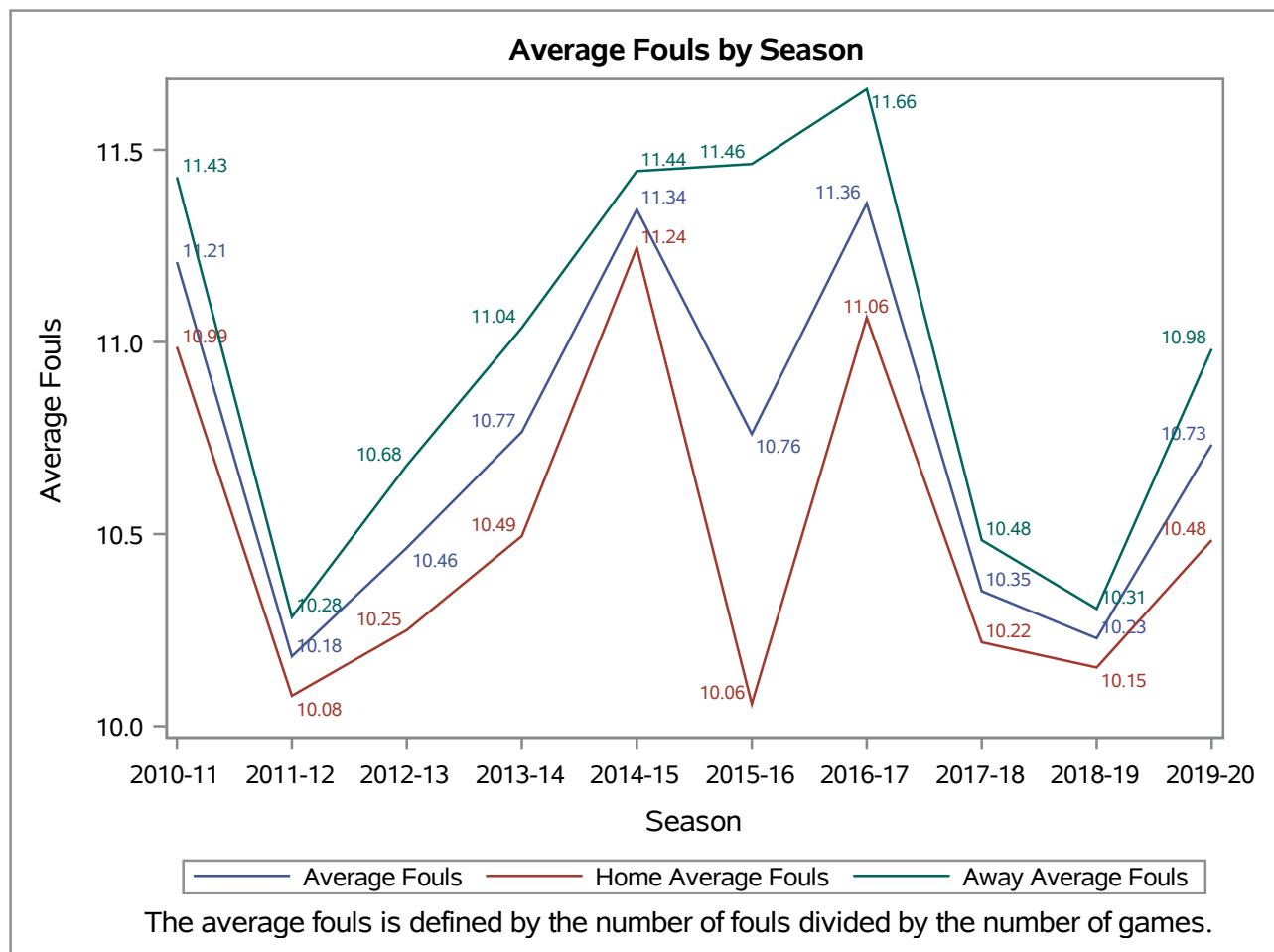
**Report on EPL Results from 2010 to 2020**  
**The data is from 14 August 2010 to 26 July 2020 (10 Seasons)**  
**Section A - Descriptive Statistic by Season**  
**Summary Statistic by Season**

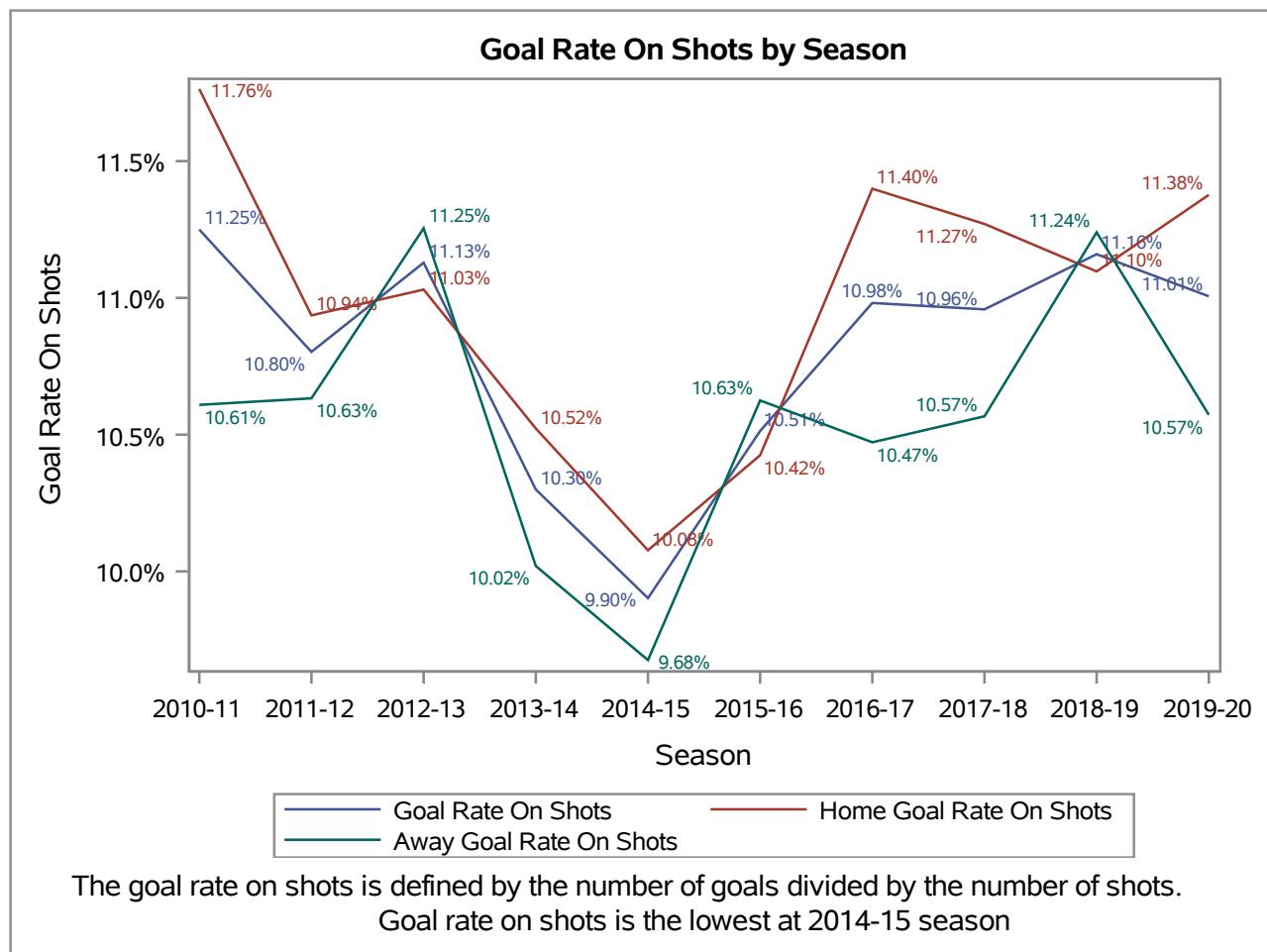
Obs	Season	Number of Game	Home Win Rate	Away Win Rate	Draw Rate	Average Shots	Average Shots On Target	Average Goal Kept	Average Fouls
1	2010-11	380	47.11%	23.68%	29.21%	12.43	6.81	5.41	11.21
2	2011-12	380	45.00%	30.53%	24.47%	12.98	7.34	5.93	10.18
3	2012-13	380	43.68%	27.89%	28.42%	12.57	7.12	5.72	10.46
4	2013-14	380	47.11%	32.37%	20.53%	13.44	4.46	3.08	10.77
5	2014-15	380	45.26%	30.26%	24.47%	12.96	4.20	2.92	11.34
6	2015-16	380	41.32%	30.53%	28.16%	12.84	4.26	2.91	10.76
7	2016-17	380	49.21%	28.68%	22.11%	12.75	4.33	2.93	11.36
8	2017-18	380	45.53%	28.42%	26.05%	12.22	4.20	2.86	10.35
9	2018-19	380	47.63%	33.68%	18.68%	12.64	4.35	2.94	10.23
10	2019-20	380	45.26%	30.53%	24.21%	12.36	4.28	2.91	10.73

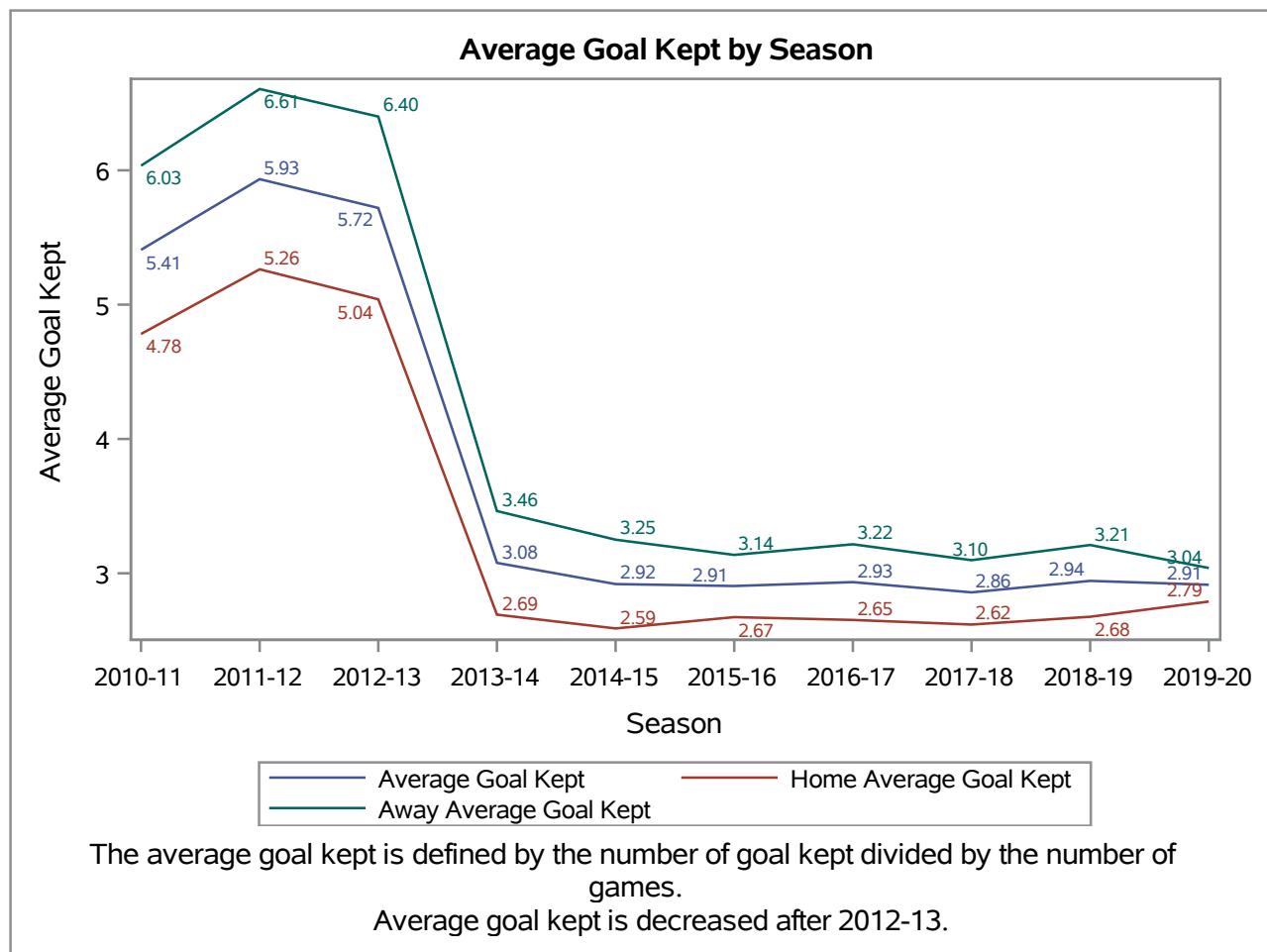












**Section B - Descriptive Statistic by Team  
Number of Game by Team**

Obs	Team	Number of Game	Number of Home Game	Number of Away Game
1	Arsenal	380	190	190
2	Chelsea	380	190	190
3	Everton	380	190	190
4	Liverpool	380	190	190
5	Manchester City	380	190	190
6	Manchester United	380	190	190
7	Tottenham	380	190	190
8	Newcastle	342	171	171
9	West Ham	342	171	171
10	Southampton	304	152	152
11	Stoke	304	152	152
12	West Brom	304	152	152
13	Aston Villa	266	133	133
14	Crystal Palace	266	133	133
15	Sunderland	266	133	133
16	Swansea	266	133	133
17	Leicester	228	114	114
18	Bournemouth	190	95	95
19	Burnley	190	95	95
20	Fulham	190	95	95
21	Norwich	190	95	95
22	Watford	190	95	95
23	Wolves	152	76	76
24	Brighton	114	57	57
25	Hull	114	57	57
26	QPR	114	57	57
27	Wigan	114	57	57
28	Blackburn	76	38	38
29	Bolton	76	38	38
30	Cardiff	76	38	38
31	Huddersfield	76	38	38
32	Birmingham	38	19	19

This table represents the total number of game each team played, and the number they played at home and away separately.

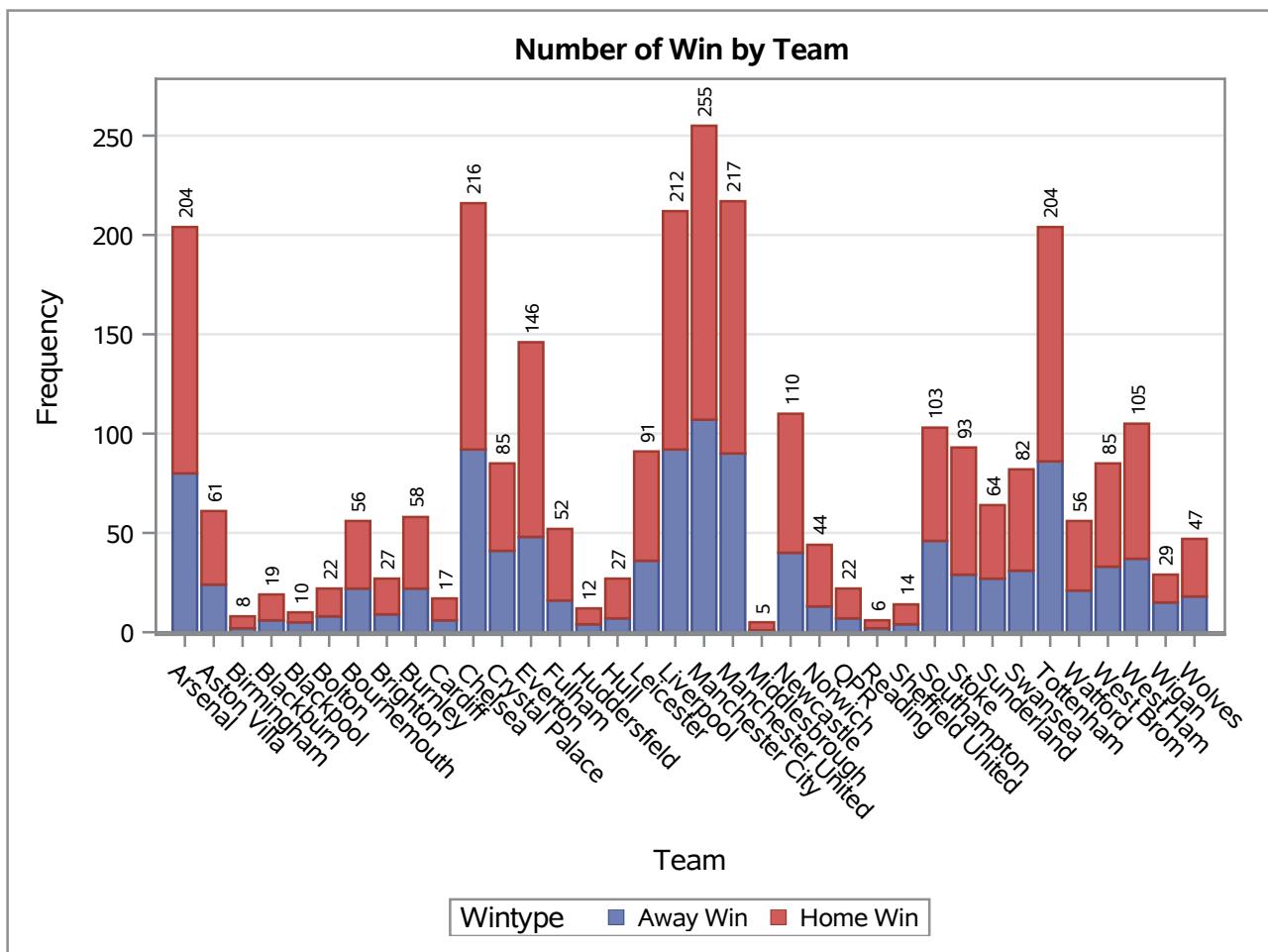
The number of game played at home and away is the same for each team.

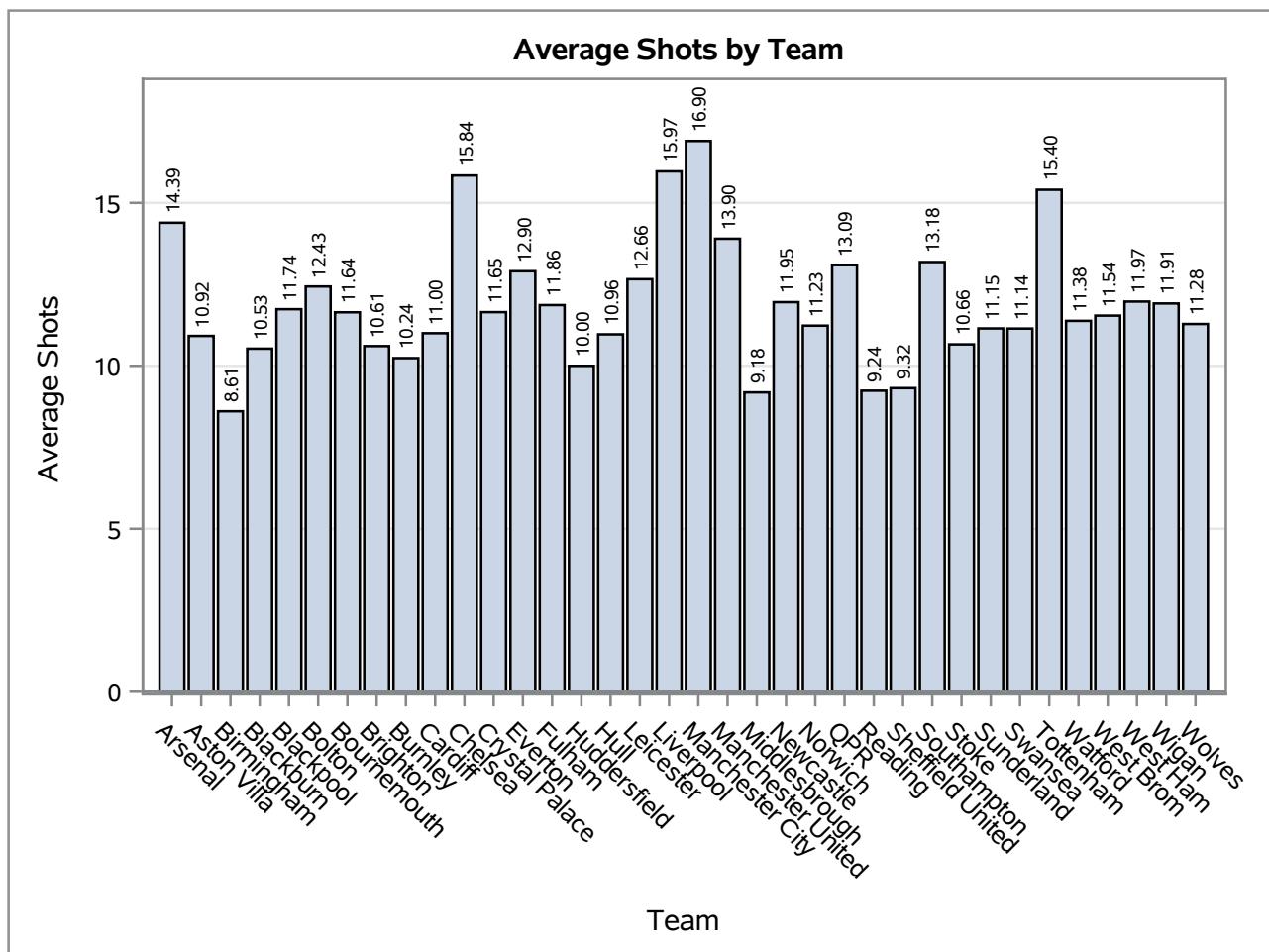
**Section B - Descriptive Statistic by Team**  
**Number of Game by Team**

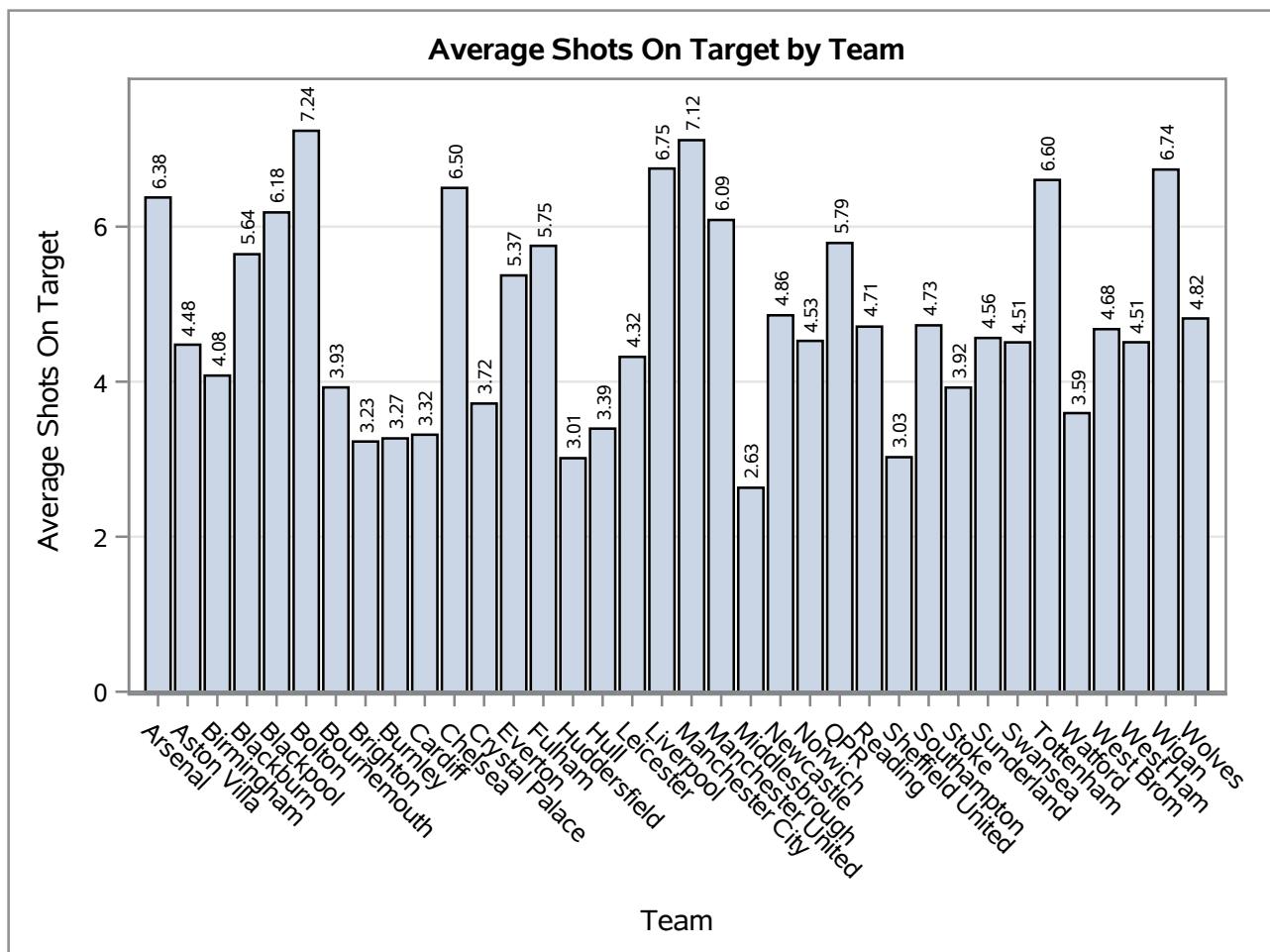
Obs	Team	Number of Game	Number of Home Game	Number of Away Game
33	Blackpool	38	19	19
34	Middlesbrough	38	19	19
35	Reading	38	19	19
36	Sheffield United	38	19	19

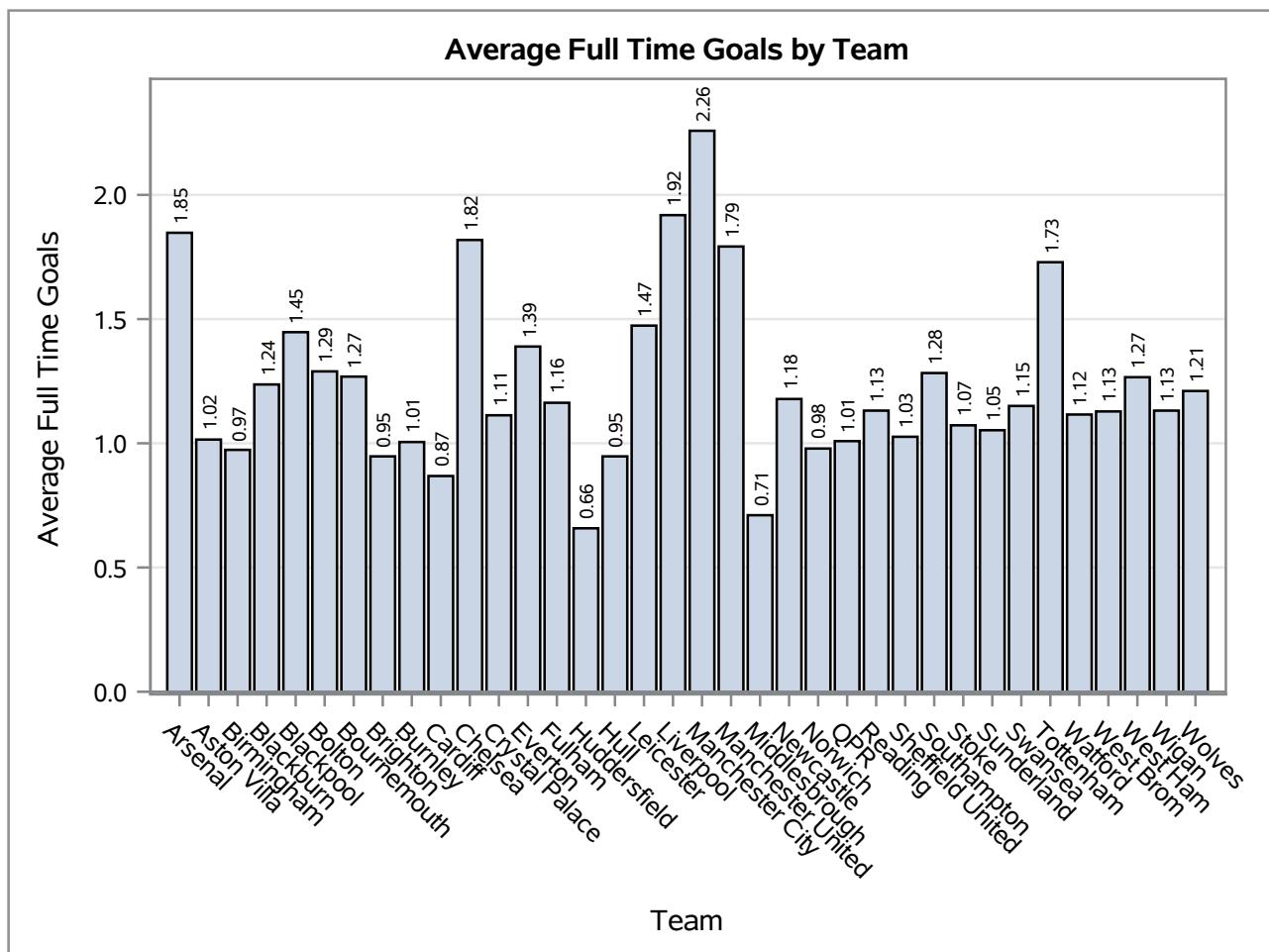
This table represents the total number of game each team played, and the number they played at home and away separately.

The number of game played at home and away is the same for each team.









## Win Rate by Team

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Obs	Team	Win Rate	Home Win Rate	Home win rate Rank	Away Win Rate	Away win rate Rank
1	Manchester City	67.11%	77.89%	1	56.32%	1
2	Manchester United	57.11%	66.84%	2	47.37%	4
3	Chelsea	56.84%	65.26%	3	48.42%	2
4	Liverpool	55.79%	63.16%	5	48.42%	2
5	Arsenal	53.68%	65.26%	3	42.11%	6
6	Tottenham	53.68%	62.11%	6	45.26%	5
7	Leicester	39.91%	48.25%	9	31.58%	7
8	Everton	38.42%	51.58%	8	25.26%	12
9	Sheffield United	36.84%	52.63%	7	21.05%	21
10	Southampton	33.88%	37.50%	17	30.26%	9
11	Newcastle	32.16%	40.94%	11	23.39%	14
12	Crystal Palace	31.95%	33.08%	24	30.83%	8
13	Wolves	30.92%	38.16%	14	23.68%	13
14	Swansea	30.83%	38.35%	13	23.31%	15
15	West Ham	30.70%	39.77%	12	21.64%	20
16	Stoke	30.59%	42.11%	10	19.08%	24
17	Burnley	30.53%	37.89%	15	23.16%	16
18	Bournemouth	29.47%	35.79%	20	23.16%	16
19	Watford	29.47%	36.84%	18	22.11%	18
20	Bolton	28.95%	36.84%	18	21.05%	21
21	West Brom	27.96%	34.21%	22	21.71%	19
22	Fulham	27.37%	37.89%	15	16.84%	26
23	Blackpool	26.32%	26.32%	31	26.32%	10
24	Wigan	25.44%	24.56%	33	26.32%	10
25	Blackburn	25.00%	34.21%	22	15.79%	27
26	Sunderland	24.06%	27.82%	29	20.30%	23
27	Brighton	23.68%	31.58%	26	15.79%	27
28	Hull	23.68%	35.09%	21	12.28%	31
29	Norwich	23.16%	32.63%	25	13.68%	30
30	Aston Villa	22.93%	27.82%	29	18.05%	25
31	Cardiff	22.37%	28.95%	28	15.79%	27
32	Birmingham	21.05%	31.58%	26	10.53%	33
33	QPR	19.30%	26.32%	31	12.28%	31
34	Huddersfield	15.79%	21.05%	34	10.53%	33

The win rate is defined by the number of win divided by the number of game.  
The table is sorted by the win rate from highest to lowest.

## Win Rate by Team

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Obs	Team	Win Rate	Home Win Rate	Home win rate Rank	Away Win Rate	Away win rate Rank
35	Reading	15.79%	21.05%	34	10.53%	33
36	Middlesbrough	13.16%	21.05%	34	5.26%	36

The win rate is defined by the number of win divided by the number of game.  
The table is sorted by the win rate from highest to lowest.

## Goal Rate On Shots On Target

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Obs	Team	Goal Rate On Shots On Target	Home Goal Rate On Shots On Target	Home Goal Rate On Shots On Target Rank	Away Goal Rate On Shots On Target	Away Goal Rate On Shots On Target Rank
1	Leicester	34.11%	34.43%	1	33.76%	2
2	Sheffield United	33.91%	34.29%	2	33.33%	3
3	Bournemouth	32.31%	34.09%	3	30.26%	5
4	Manchester City	31.73%	33.72%	4	29.36%	7
5	Watford	31.04%	32.79%	6	29.02%	8
6	Burnley	30.76%	29.97%	8	31.75%	4
7	Crystal Palace	29.93%	26.36%	21	34.40%	1
8	Manchester United	29.44%	28.99%	11	30.04%	6
9	Brighton	29.35%	32.81%	5	25.57%	15
10	Arsenal	28.97%	29.07%	10	28.84%	9
11	Liverpool	28.42%	28.89%	13	27.85%	11
12	West Ham	28.08%	28.92%	12	27.03%	13
13	Chelsea	27.98%	27.65%	18	28.40%	10
14	Hull	27.91%	30.45%	7	24.55%	18
15	Stoke	27.33%	29.79%	9	24.08%	22
16	Southampton	27.14%	28.44%	16	25.64%	14
17	Middlesbrough	27.00%	28.81%	15	24.39%	20
18	Cardiff	26.19%	28.87%	14	22.73%	27
19	Tottenham	26.19%	25.02%	24	27.67%	12
20	Everton	25.87%	28.09%	17	23.14%	25
21	Swansea	25.52%	26.40%	20	24.38%	21
22	Wolves	25.14%	25.68%	22	24.46%	19
23	Newcastle	24.26%	25.59%	23	22.54%	29
24	West Brom	24.12%	24.81%	25	23.23%	24
25	Reading	24.02%	27.06%	19	21.28%	30
26	Birmingham	23.87%	24.68%	26	23.08%	26
27	Blackpool	23.40%	22.39%	31	24.75%	17
28	Sunderland	23.06%	22.62%	30	23.58%	23
29	Aston Villa	22.67%	22.69%	29	22.64%	28
30	Blackburn	21.91%	19.28%	33	25.56%	16
31	Huddersfield	21.83%	23.21%	28	20.51%	31
32	Norwich	21.63%	23.86%	27	18.78%	32
33	Fulham	20.22%	21.37%	32	18.49%	33

The goal rate on shots on target is defined by the number of goals divided by the number of shots on target.

## Goal Rate On Shots On Target

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Obs	Team	Goal Rate On Shots On Target	Home Goal Rate On Shots On Target	Home Goal Rate On Shots On Target Rank	Away Goal Rate On Shots On Target	Away Goal Rate On Shots On Target Rank
34	Bolton	17.82%	18.04%	34	17.52%	35
35	QPR	17.42%	16.85%	35	18.09%	34
36	Wigan	16.80%	16.47%	36	17.20%	36

The goal rate on shots on target is defined by the number of goals divided by the number of shots on target.

## Goal Rate On Shots

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Obs	Team	Goal Rate On Shots	Home Goal Rate On Shots	Home Goal Rate On Shots Rank	Away Goal Rate On Shots	Away Goal Rate On Shots Rank
1	Manchester City	13.36%	14.32%	1	12.24%	6
2	Manchester United	12.89%	12.72%	4	13.12%	2
3	Arsenal	12.84%	12.97%	3	12.67%	4
4	Blackpool	12.33%	11.86%	6	12.95%	3
5	Reading	12.25%	14.29%	2	10.53%	12
6	Liverpool	12.02%	11.98%	5	12.06%	8
7	Blackburn	11.75%	9.78%	24	14.89%	1
8	Leicester	11.64%	11.28%	11	12.08%	7
9	Chelsea	11.48%	11.65%	7	11.28%	10
10	Birmingham	11.31%	10.44%	19	12.41%	5
11	Tottenham	11.23%	10.76%	17	11.81%	9
12	Sheffield United	11.02%	11.48%	9	10.34%	14
13	Bournemouth	10.90%	11.42%	10	10.28%	15
14	Everton	10.77%	11.61%	8	9.72%	19
15	Wolves	10.73%	11.01%	14	10.39%	13
16	West Ham	10.58%	10.83%	16	10.26%	16
17	Bolton	10.37%	11.11%	12	9.49%	22
18	Swansea	10.32%	10.87%	15	9.64%	21
19	Stoke	10.06%	11.04%	13	8.79%	29
20	Newcastle	9.86%	10.23%	20	9.35%	25
21	Burnley	9.82%	9.64%	27	10.05%	18
22	Watford	9.81%	10.13%	22	9.42%	24
23	Fulham	9.80%	10.46%	18	8.84%	28
24	West Brom	9.78%	10.19%	21	9.26%	27
25	Southampton	9.73%	10.05%	23	9.35%	26
26	Crystal Palace	9.55%	8.39%	33	11.03%	11
27	Wigan	9.50%	9.37%	29	9.66%	20
28	Sunderland	9.44%	8.89%	32	10.14%	17
29	Aston Villa	9.30%	9.16%	30	9.46%	23
30	Brighton	8.93%	9.65%	26	8.09%	31
31	Norwich	8.72%	9.70%	25	7.48%	32
32	Hull	8.64%	9.61%	28	7.41%	33
33	Cardiff	7.89%	8.95%	31	6.61%	36

The goal rate on shots is defined by the number of goals divided by the number of shots.  
The table is sorted by the Goal Rate On Shots from highest to lowest.

## Goal Rate On Shots

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Obs	Team	Goal Rate On Shots	Home Goal Rate On Shots	Home Goal Rate On Shots Rank	Away Goal Rate On Shots	Away Goal Rate On Shots Rank
34	Middlesbrough	7.74%	8.29%	34	6.94%	34
35	QPR	7.71%	7.12%	35	8.47%	30
36	Huddersfield	6.58%	6.34%	36	6.86%	35

The goal rate on shots is defined by the number of goals divided by the number of shots.  
The table is sorted by the Goal Rate On Shots from highest to lowest.

## Average Goal Kept by Each Team

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Obs	Team	Average Goal Kept	Home Average Goal Kept	Home Average Goal Kept Rank	Away Average Goal Kept	Away Average Goal Kept Rank
1	Reading	7.45	5.84	4	9.05	1
2	Blackpool	7.24	6.05	3	8.42	2
3	Birmingham	6.71	5.58	5	7.84	3
4	Blackburn	6.38	6.16	1	6.61	5
5	Bolton	6.37	6.11	2	6.63	4
6	QPR	5.86	5.12	6	6.60	6
7	Fulham	5.37	4.76	7	5.98	8
8	Wigan	5.35	4.26	10	6.44	7
9	Sunderland	5.11	4.38	9	5.83	9
10	Wolves	4.72	4.58	8	4.86	10
11	Norwich	4.39	4.09	11	4.69	13
12	Aston Villa	4.27	3.98	12	4.56	16
13	West Ham	4.26	3.80	14	4.73	12
14	Stoke	4.26	3.89	13	4.62	14
15	Swansea	4.24	3.74	15	4.74	11
16	West Brom	4.01	3.45	17	4.57	15
17	Cardiff	3.96	3.58	16	4.34	17
18	Newcastle	3.70	3.36	18	4.04	18
19	Burnley	3.56	3.18	19	3.95	19
20	Everton	3.45	3.04	24	3.87	21
21	Manchester United	3.44	3.05	23	3.83	22
22	Tottenham	3.41	3.14	20	3.68	23
23	Arsenal	3.36	3.09	22	3.62	24
24	Chelsea	3.20	2.93	26	3.47	25
25	Brighton	3.14	2.86	28	3.42	26
26	Middlesbrough	3.13	2.32	35	3.95	19
27	Watford	3.08	2.95	25	3.21	29
28	Hull	3.06	3.11	21	3.02	35
29	Crystal Palace	3.05	2.79	29	3.32	27
30	Bournemouth	2.95	2.73	30	3.17	30
31	Huddersfield	2.92	2.89	27	2.95	36
32	Leicester	2.84	2.59	31	3.10	33
33	Liverpool	2.80	2.37	34	3.23	28
34	Southampton	2.78	2.45	33	3.11	32

The average goal kept is defined by the number of goal kept divided by the number of games.  
 Each team is listed by average goal kept from highest to lowest.

## Average Goal Kept by Each Team

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Obs	Team	Average Goal Kept	Home Average Goal Kept	Home Average Goal Kept Rank	Away Average Goal Kept	Away Average Goal Kept Rank
35	Manchester City	2.76	2.46	32	3.06	34
36	Sheffield United	2.66	2.16	36	3.16	31

The average goal kept is defined by the number of goal kept divided by the number of games.  
Each team is listed by average goal kept from highest to lowest.

### Average Goal Concede by Each Team

Obs	Team	Average Goal Concede	Home Average Goal Concede	Home Average Goal Concede Rank	Away Average Goal Concede	Away Average Goal Concede Rank
1	Manchester City	0.88	0.75	1	1.02	1
2	Manchester United	0.99	0.83	3	1.14	2
3	Sheffield United	1.03	0.79	2	1.26	4
4	Chelsea	1.04	0.86	5	1.21	3
5	Liverpool	1.08	0.84	4	1.32	6
6	Tottenham	1.11	0.92	7	1.29	5
7	Arsenal	1.15	0.88	6	1.42	9
8	Everton	1.24	1.08	8	1.40	7
9	Leicester	1.33	1.09	9	1.57	13
10	Southampton	1.35	1.28	16	1.41	8
11	Stoke	1.39	1.16	11	1.61	18
12	Burnley	1.39	1.19	12	1.60	16
13	Crystal Palace	1.39	1.26	14	1.53	10
14	Middlesbrough	1.39	1.21	13	1.58	14
15	Swansea	1.44	1.28	17	1.60	17
16	West Brom	1.46	1.36	21	1.57	12
17	Brighton	1.47	1.40	22	1.54	11
18	Sunderland	1.50	1.29	18	1.72	21
19	Newcastle	1.51	1.27	15	1.75	22
20	West Ham	1.52	1.40	22	1.64	19
21	Birmingham	1.53	1.16	10	1.89	29
22	Wolves	1.54	1.49	29	1.59	15
23	Watford	1.61	1.41	25	1.80	24
24	Hull	1.61	1.40	22	1.82	25
25	Aston Villa	1.66	1.44	27	1.89	28
26	Fulham	1.68	1.61	31	1.76	23
27	Wigan	1.72	1.75	34	1.68	20
28	Norwich	1.73	1.42	26	2.03	31
29	Bournemouth	1.74	1.56	30	1.92	30
30	QPR	1.75	1.35	20	2.14	34
31	Bolton	1.75	1.66	32	1.84	26
32	Huddersfield	1.76	1.47	28	2.05	32
33	Blackburn	1.80	1.29	19	2.32	36

The average goal concede is represented by the average competitor team's goal.  
The table is sorted by the average goal concede from lowest to highest.

### Average Goal Concede by Each Team

Obs	Team	Average Goal Concede	Home Average Goal Concede	Home Average Goal Concede Rank	Away Average Goal Concede	Away Average Goal Concede Rank
34	Cardiff	1.88	1.92	35	1.84	26
35	Reading	1.92	1.74	33	2.11	33
36	Blackpool	2.05	1.95	36	2.16	35

The average goal concede is represented by the average competitor team's goal.  
The table is sorted by the average goal concede from lowest to highest.

## Average Fouls by Each Team

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Obs	Team	Average Fouls	Home Average Fouls	Home Average Fouls Rank	Away Average Fouls	Away Average Fouls Rank
1	Bournemouth	9.34	9.18	2	9.51	1
2	Reading	9.45	8.89	1	10.00	5
3	Cardiff	9.55	9.53	3	9.58	2
4	Swansea	9.91	9.62	5	10.20	6
5	Liverpool	9.94	9.54	4	10.34	9
6	Arsenal	10.14	10.34	17	9.94	4
7	Chelsea	10.19	10.08	11	10.29	8
8	Burnley	10.28	10.34	16	10.22	7
9	Tottenham	10.40	9.97	6	10.84	12
10	West Ham	10.41	10.11	13	10.70	10
11	Manchester City	10.41	10.07	10	10.75	11
12	Norwich	10.42	9.98	7	10.85	14
13	Fulham	10.45	10.02	8	10.87	15
14	Birmingham	10.50	10.11	12	10.89	16
15	Wolves	10.51	10.07	9	10.96	18
16	Blackpool	10.61	11.37	30	9.84	3
17	QPR	10.70	10.56	19	10.84	13
18	Leicester	10.73	10.31	15	11.16	21
19	Huddersfield	10.74	10.37	18	11.11	20
20	Sheffield United	10.79	10.16	14	11.42	27
21	Newcastle	10.89	10.77	24	11.01	19
22	West Brom	10.90	10.63	21	11.17	23
23	Sunderland	11.02	10.68	22	11.35	25
24	Brighton	11.06	10.61	20	11.51	29
25	Everton	11.08	10.77	25	11.39	26
26	Manchester United	11.09	10.95	27	11.23	24
27	Hull	11.18	11.44	32	10.93	17
28	Southampton	11.25	10.75	23	11.74	30
29	Aston Villa	11.37	10.95	26	11.79	31
30	Blackburn	11.58	12.00	34	11.16	21
31	Wigan	11.61	11.79	33	11.44	28
32	Stoke	11.65	11.36	29	11.95	34
33	Crystal Palace	11.66	11.41	31	11.91	33
34	Bolton	11.96	12.05	35	11.87	32

The average fouls is defined by the number of fouls divided by the number of games.  
 Each team is listed by average fouls from lowest to highest.

## Average Fouls by Each Team

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Obs	Team	Average Fouls	Home Average Fouls	Home Average Fouls Rank	Away Average Fouls	Away Average Fouls Rank
35	Watford	12.29	12.48	36	12.09	35
36	Middlesbrough	12.58	11.05	28	14.11	36

The average fouls is defined by the number of fouls divided by the number of games.  
Each team is listed by average fouls from lowest to highest.

**Section C - Other Descriptive Statistic**  
**The Full Time Score Frequency**

Result	Count	Percentage
1-1	408	10.74%
1-0	377	9.92%
2-1	319	8.39%
2-0	314	8.26%
0-0	279	7.34%
1-2	267	7.03%
0-1	249	6.55%
2-2	207	5.45%
3-1	183	4.82%
3-0	168	4.42%
0-2	168	4.42%
1-3	113	2.97%
0-3	103	2.71%
3-2	84	2.21%
2-3	81	2.13%
4-0	80	2.11%
4-1	64	1.68%
0-4	39	1.03%
3-3	38	1.00%
1-4	38	1.00%
5-0	37	0.97%
4-2	31	0.82%
5-1	20	0.53%
2-4	16	0.42%
4-3	15	0.39%
1-5	12	0.32%
0-5	11	0.29%
6-1	10	0.26%
6-0	9	0.24%
3-4	8	0.21%
2-5	6	0.16%
5-2	6	0.16%
5-3	5	0.13%
1-6	4	0.11%
0-6	4	0.11%
8-0	3	0.08%

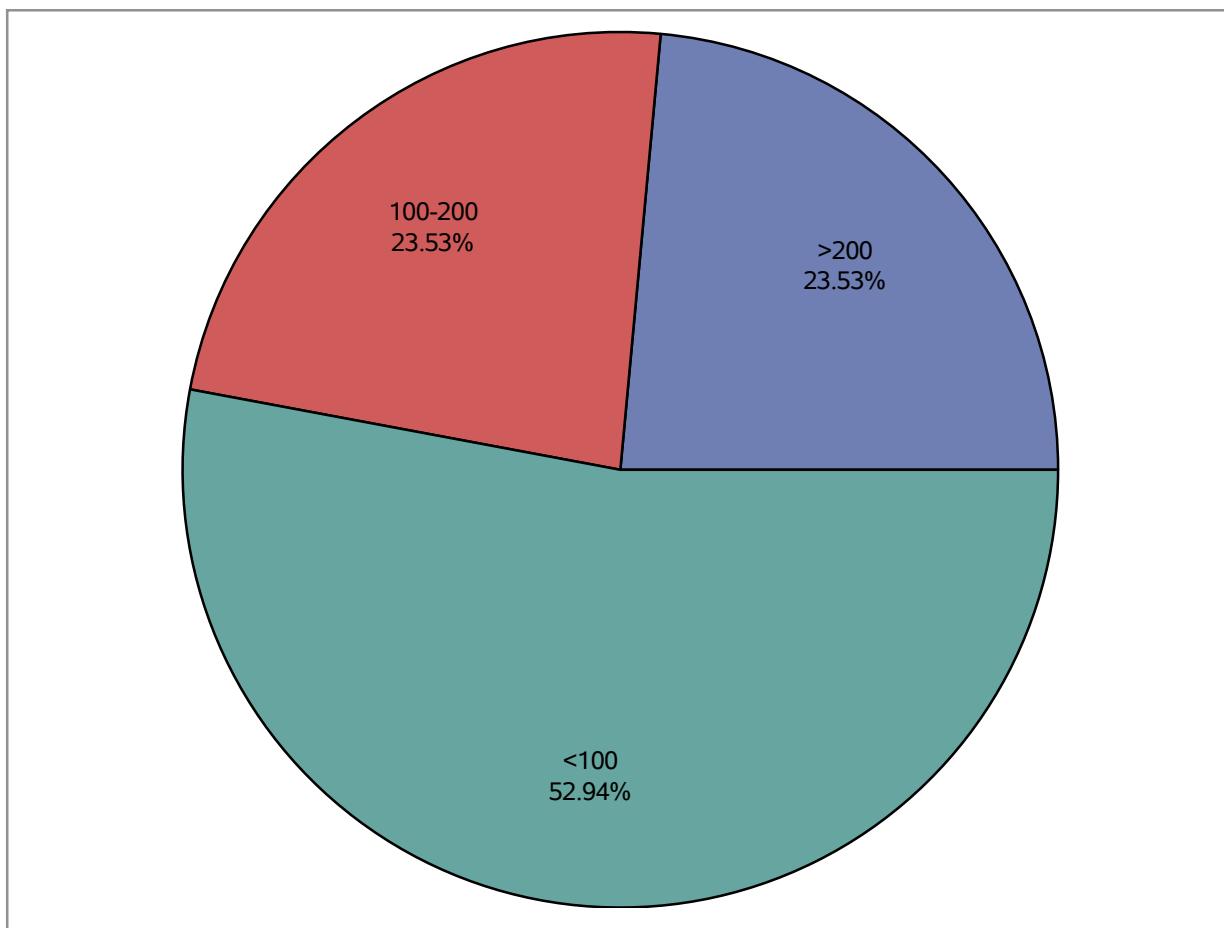
**Section C - Other Descriptive Statistic  
The Full Time Score Frequency**

Result	Count	Percentage
4-4	3	0.08%
3-6	2	0.05%
3-5	2	0.05%
7-1	2	0.05%
6-3	2	0.05%
6-2	2	0.05%
5-4	2	0.05%
8-2	1	0.03%
7-3	1	0.03%
7-2	1	0.03%
2-6	1	0.03%
7-0	1	0.03%
5-5	1	0.03%
4-5	1	0.03%
0-9	1	0.03%
1-7	1	0.03%

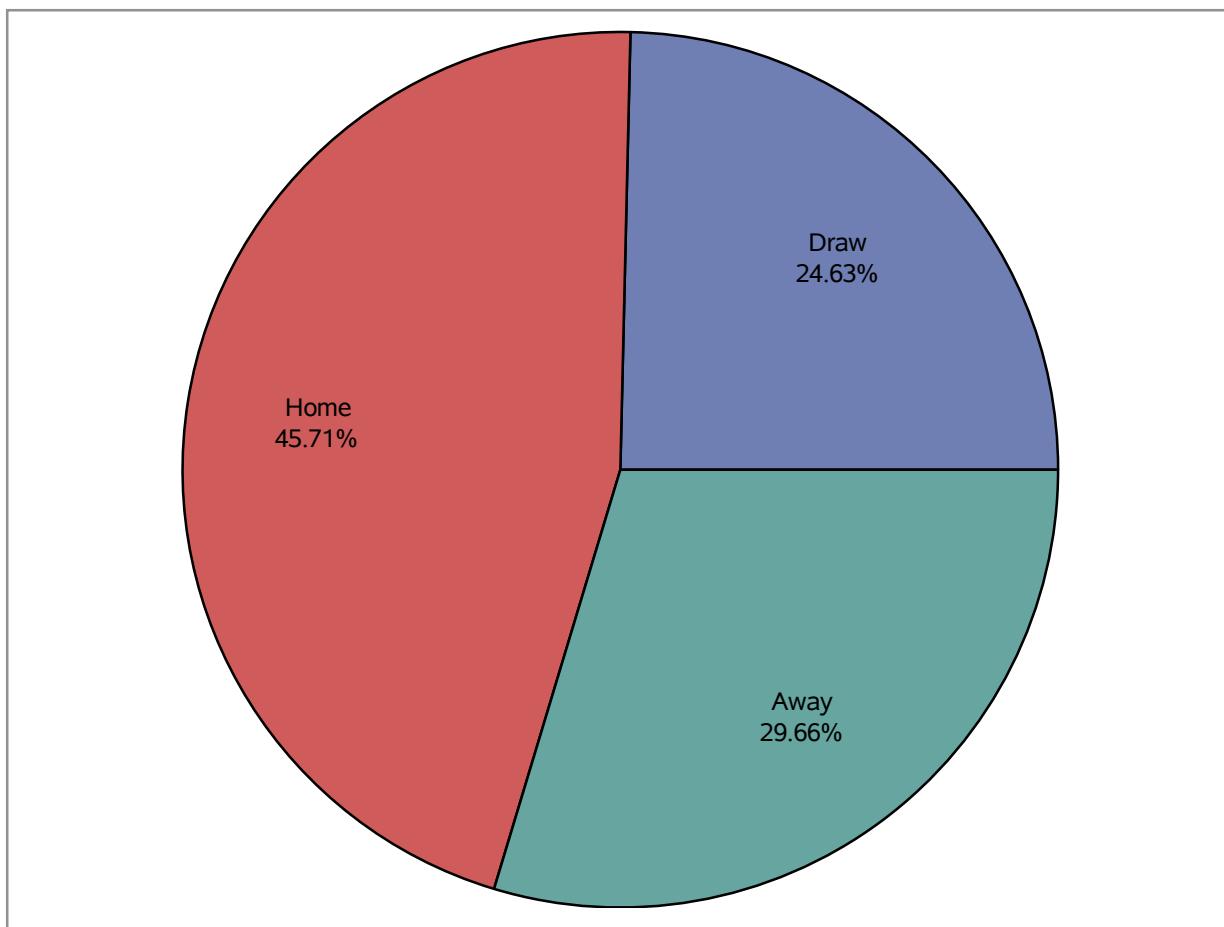
## Number of Game by Referee

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Referee name		
Referee	Frequency	Percent
M Dean	288	7.58
M Atkinson	281	7.39
M Oliver	266	7.00
A Taylor	256	6.74
A Marriner	249	6.55
J Moss	225	5.92
K Friend	216	5.68
L Mason	216	5.68
M Clattenburg	175	4.61
M Jones	170	4.47
C Pawson	157	4.13
L Probert	137	3.61
N Swarbrick	132	3.47
P Dowd	130	3.42
H Webb	119	3.13
C Foy	109	2.87
S Attwell	95	2.50
R East	91	2.39
R Madley	91	2.39
P Tierney	80	2.11
G Scott	68	1.79
C Kavanagh	66	1.74
M Halsey	60	1.58
P Walton	42	1.11
D Coote	28	0.74
S Hooper	21	0.55
A Madley	13	0.34
P Banks	11	0.29
K Stroud	3	0.08
D England	1	0.03
O Langford	1	0.03
R Jones	1	0.03
S Scott	1	0.03
T Robinson	1	0.03

**Range of Number of Game by Referee**

**There are more than 50% of referee has number of game less than 100 in 10 seasons.**



About 46% of games are won by home team.

## Section D - correlation and Regression Analysis

### correlation: Independent Variables and Win Rate

<b>1 With Variables:</b>	WinRate
<b>5 Variables:</b>	AverageShots      AverageShotsOnTarget      AverageGoalKept      AverageGoalConcede      AverageFouls

<b>Simple Statistics</b>						
<b>Variable</b>	<b>N</b>	<b>Mean</b>	<b>Std Dev</b>	<b>Sum</b>	<b>Minimum</b>	<b>Maximum</b>
<b>WinRate</b>	36	0.32109	0.13011	11.55907	0.13158	0.67105
<b>AverageShots</b>	36	11.89894	1.95017	428.36201	8.60526	16.90000
<b>AverageShotsOnTarget</b>	36	4.83221	1.30182	173.95961	2.63158	7.23684
<b>AverageGoalKept</b>	36	4.14555	1.37167	149.23967	2.65789	7.44737
<b>AverageGoalConcede</b>	36	1.48335	0.28551	53.40058	0.88421	2.05263
<b>AverageFouls</b>	36	10.79577	0.74662	388.64783	9.34211	12.57895

Pearson Correlation Coefficients, N = 36 Prob >  r  under H0: Rho=0						
	<b>AverageShots</b>	<b>AverageShotsOnTarget</b>	<b>AverageGoalKept</b>	<b>AverageGoalConcede</b>	<b>AverageFouls</b>	
<b>WinRate</b>	0.86121 <.0001	0.59213 0.0001	-0.45344 0.0055	-0.82199 <.0001	-0.22429 0.1885	

**Note: AverageFouls is not statistically significant at 95% confidence level.**

## Regression 1-1: Independent Variables and WinRate

**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**

Number of Observations Read	36
Number of Observations Used	36

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	0.54811	0.10962	74.01	<.0001
Error	30	0.04443	0.00148		
Corrected Total	35	0.59254			

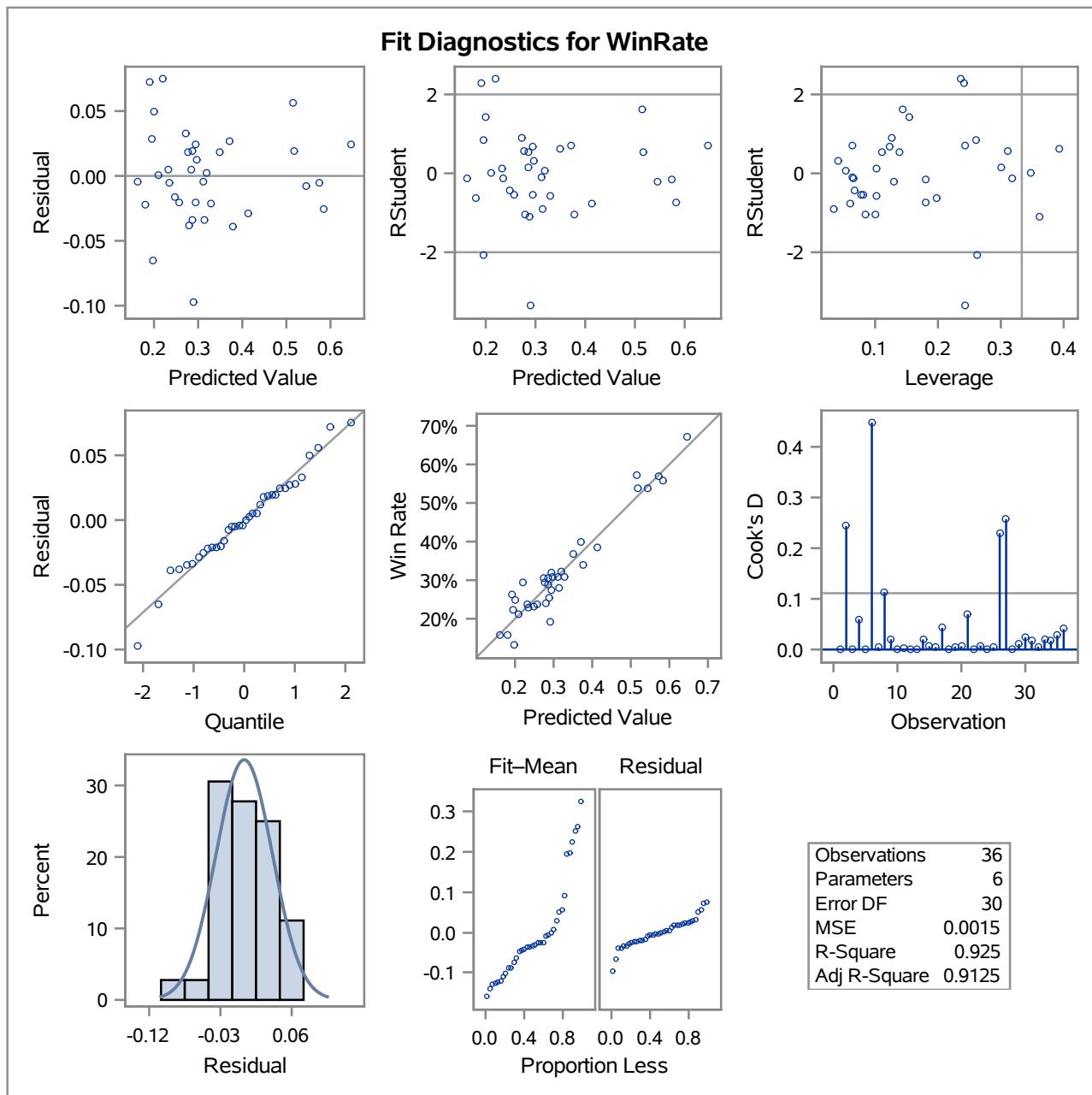
Root MSE	0.03849	R-Square	0.9250
Dependent Mean	0.32109	Adj R-Sq	0.9125
Coeff Var	11.98608		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.64462	0.17955	3.59	0.0012
AverageShots	Average Shots	1	0.01717	0.01178	1.46	0.1554
AverageShotsOnTarget	Average Shots On Target	1	0.03028	0.01760	1.72	0.0957
AverageGoalKept	Average Goal Kept	1	-0.01103	0.01302	-0.85	0.4036
AverageGoalConcede	Average Goal Concede	1	-0.24366	0.03596	-6.78	<.0001
AverageFouls	Average Fouls	1	-0.02473	0.00948	-2.61	0.0140

Note: AverageShots, AverageShotsOnTarget and AverageGoalKept are not statistically significant at 95% confidence level.

## Regression 1-1: Independent Variables and WinRate

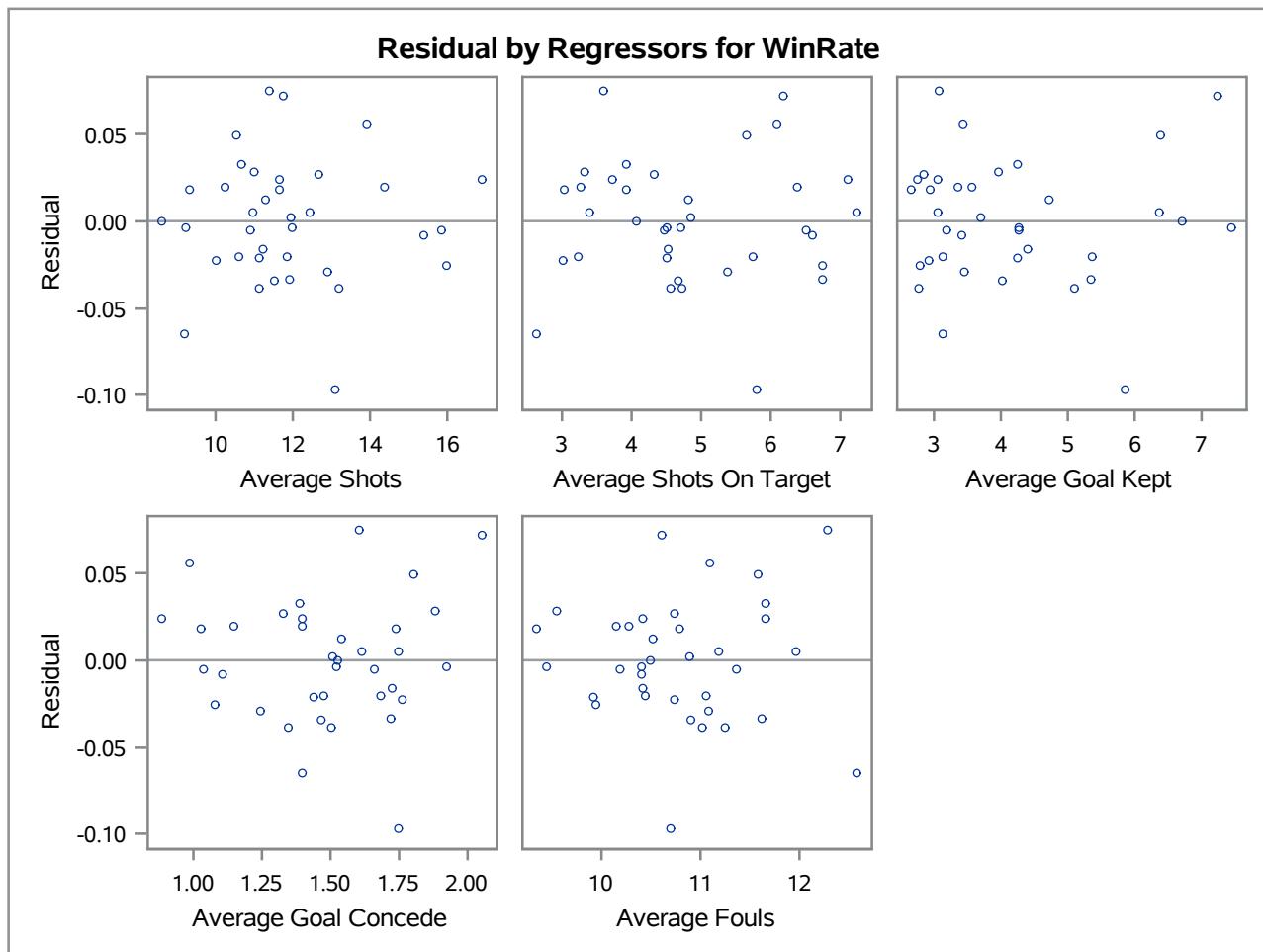
**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**



**Note:** AverageShots, AverageShotsOnTarget and AverageGoalKept are not statistically significant at 95% confidence level.

## Regression 1-1: Independent Variables and WinRate

**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**



**Note:** AverageShots, AverageShotsOnTarget and AverageGoalKept are not statistically significant at 95% confidence level.

## Regression 1-2: Independent Variables and WinRate

**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**

Number of Observations Read	36
Number of Observations Used	36

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.52728	0.17576	86.18	<.0001
Error	32	0.06526	0.00204		
Corrected Total	35	0.59254			

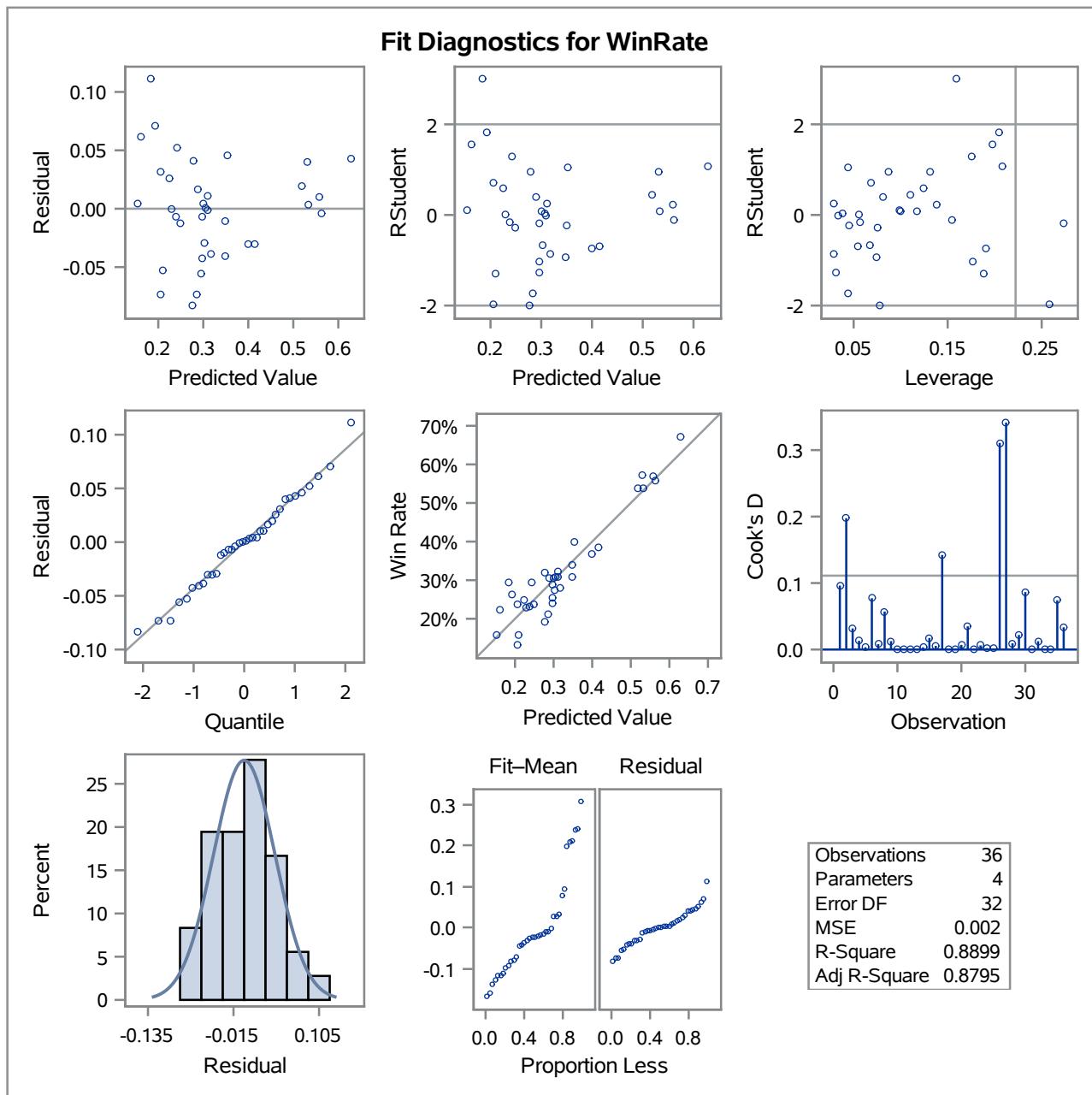
Root MSE	0.04516	R-Square	0.8899
Dependent Mean	0.32109	Adj R-Sq	0.8795
Coeff Var	14.06459		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.94336	0.12834	7.35	<.0001
AverageShotsOnTarget	Average Shots On Target	1	0.04170	0.00604	6.90	<.0001
AverageGoalConcede	Average Goal Concede	1	-0.33479	0.02735	-12.24	<.0001
AverageFouls	Average Fouls	1	-0.03030	0.01030	-2.94	0.0060

**Note:** This is the final regression for WinRate, all independent variable are statistically significant.

## Regression 1-2: Independent Variables and WinRate

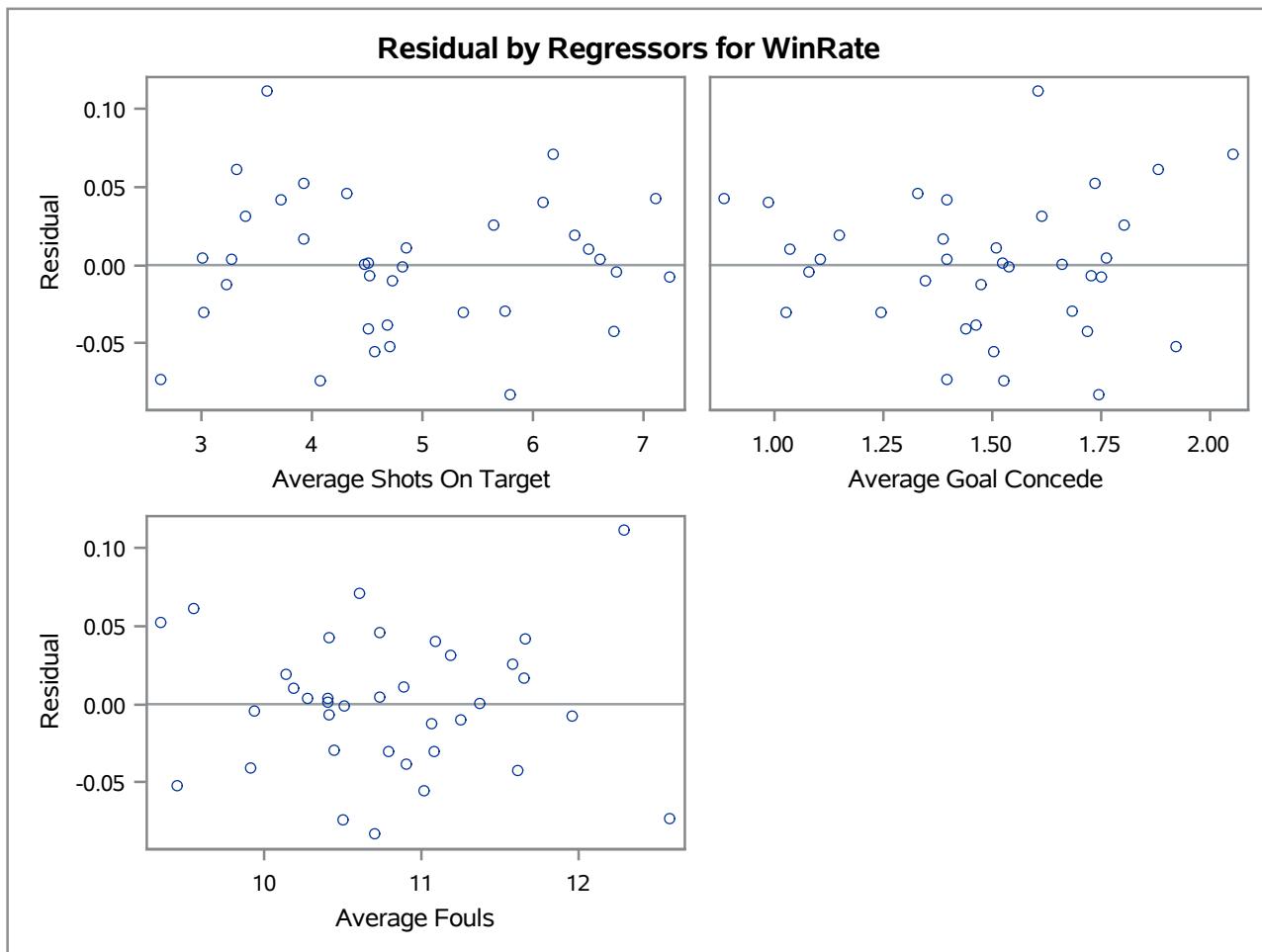
**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**



**Note:** This is the final regression for WinRate, all independent variable are statistically significant.

## Regression 1-2: Independent Variables and WinRate

**Model: MODEL1**  
**Dependent Variable: WinRate Win Rate**



**Note:** This is the final regression for WinRate, all independent variable are statistically significant.

## Correlation: Independent Variables and GameResult

<b>1 With Variables:</b>	GameResult				
<b>5 Variables:</b>	Shot	ShotOnTarget	GoalKept	GoalConcede	Fouls

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
<b>GameResult</b>	7600	0.37684	0.48463	2864	0	1.00000
<b>Shot</b>	7600	12.71947	5.34800	96668	0	43.00000
<b>ShotOnTarget</b>	7600	5.13421	3.12353	39020	0	24.00000
<b>GoalKept</b>	7600	3.76145	2.75275	28587	-2.00000	21.00000
<b>GoalConcede</b>	7600	1.37276	1.24818	10433	0	9.00000
<b>Fouls</b>	7600	10.73987	3.46457	81623	0	26.00000

Pearson Correlation Coefficients, N = 7600 Prob >  r  under H0: Rho=0						
	Shot	ShotOnTarget	GoalKept	GoalConcede	Fouls	
<b>GameResult</b>	0.25455 <.0001	0.33597 <.0001	-0.09428 <.0001	-0.50550 <.0001	-0.05079 <.0001	

Note: GoalKept and Fouls is not statistically significant at 95% confidence level.

## Regression 2-1: Independent Variables and GameResult

**Model: MODEL1**  
**Dependent Variable: GameResult**

Number of Observations Read	7600
Number of Observations Used	7600

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	5	598.88295	119.77659	767.04	<.0001
<b>Error</b>	7594	1185.84126	0.15616		
<b>Corrected Total</b>	7599	1784.72421			

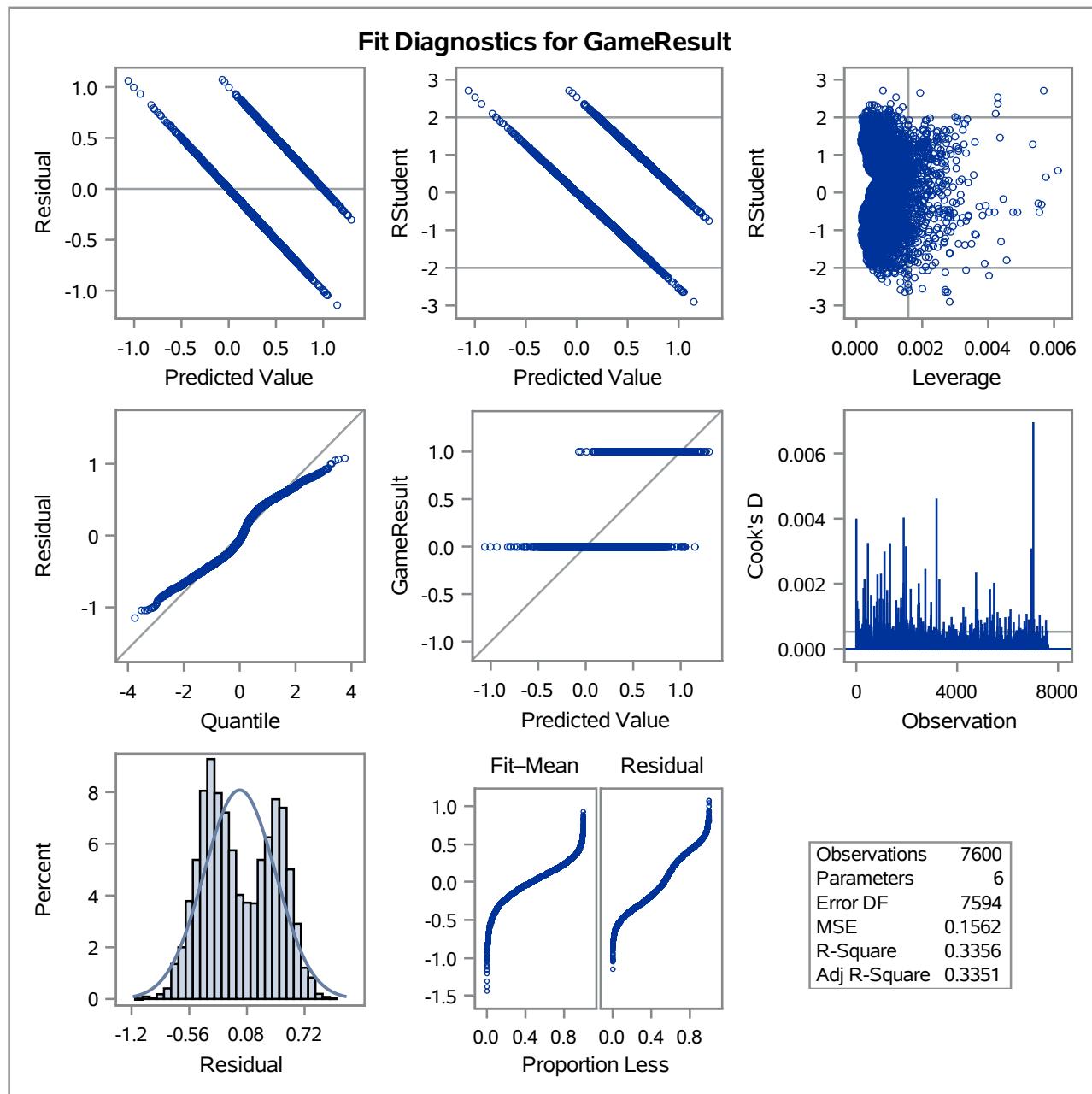
Root MSE	0.39516	R-Square	0.3356
Dependent Mean	0.37684	Adj R-Sq	0.3351
Coeff Var	104.86210		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
<b>Intercept</b>	1	0.55046	0.02273	24.21	<.0001
<b>Shot</b>	1	-0.00506	0.00123	-4.12	<.0001
<b>ShotOnTarget</b>	1	0.04808	0.00202	23.75	<.0001
<b>GoalKept</b>	1	-0.01278	0.00177	-7.22	<.0001
<b>GoalConcede</b>	1	-0.18193	0.00370	-49.22	<.0001
<b>Fouls</b>	1	-0.00542	0.00132	-4.12	<.0001

**Note:** This is the final regression for GameResult, all independent variable are statistically significant. Both draw and lose are measured as 0, this regression is focusing on the factors that have effect on win.

## Regression 2-1: Independent Variables and GameResult

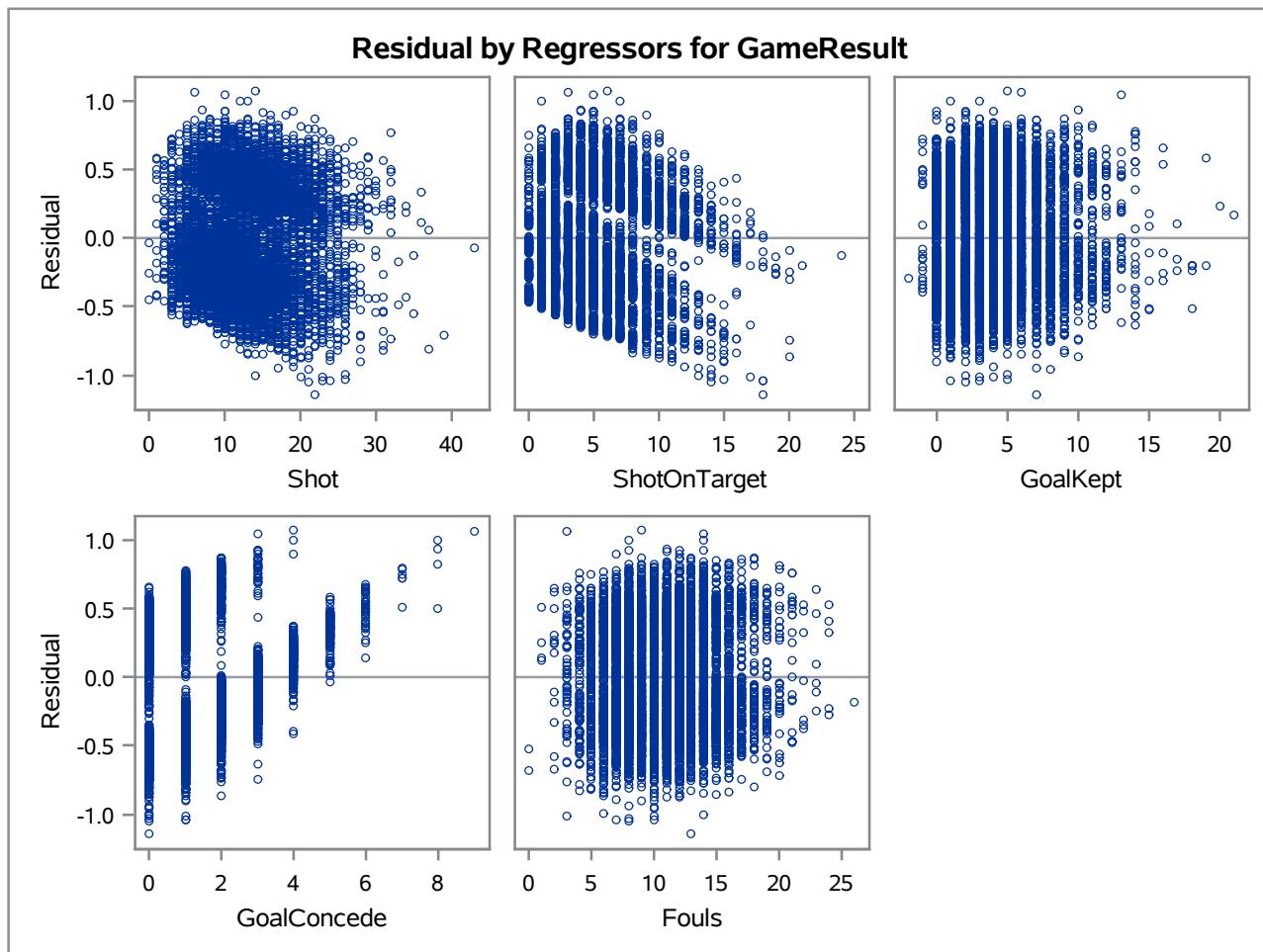
**Model: MODEL1**  
**Dependent Variable: GameResult**



**Note:** This is the final regression for GameResult, all independent variable are statistically significant. Both draw and lose are measured as 0, this regression is focusing on the factors that have effect on win.

## Regression 2-1: Independent Variables and GameResult

**Model: MODEL1**  
**Dependent Variable: GameResult**



**Note:** This is the final regression for GameResult, all independent variable are statistically significant. Both draw and lose are measured as 0, this regression is focusing on the factors that have effect on win.