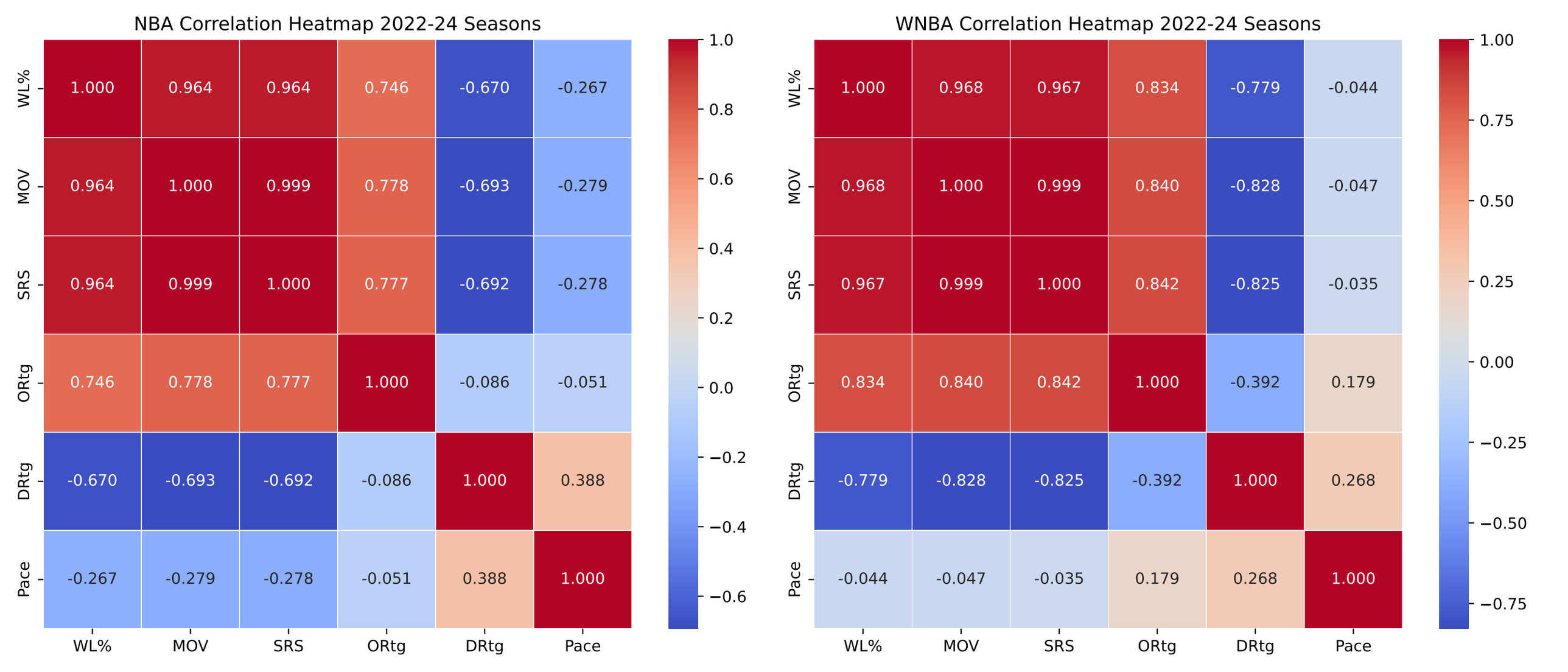
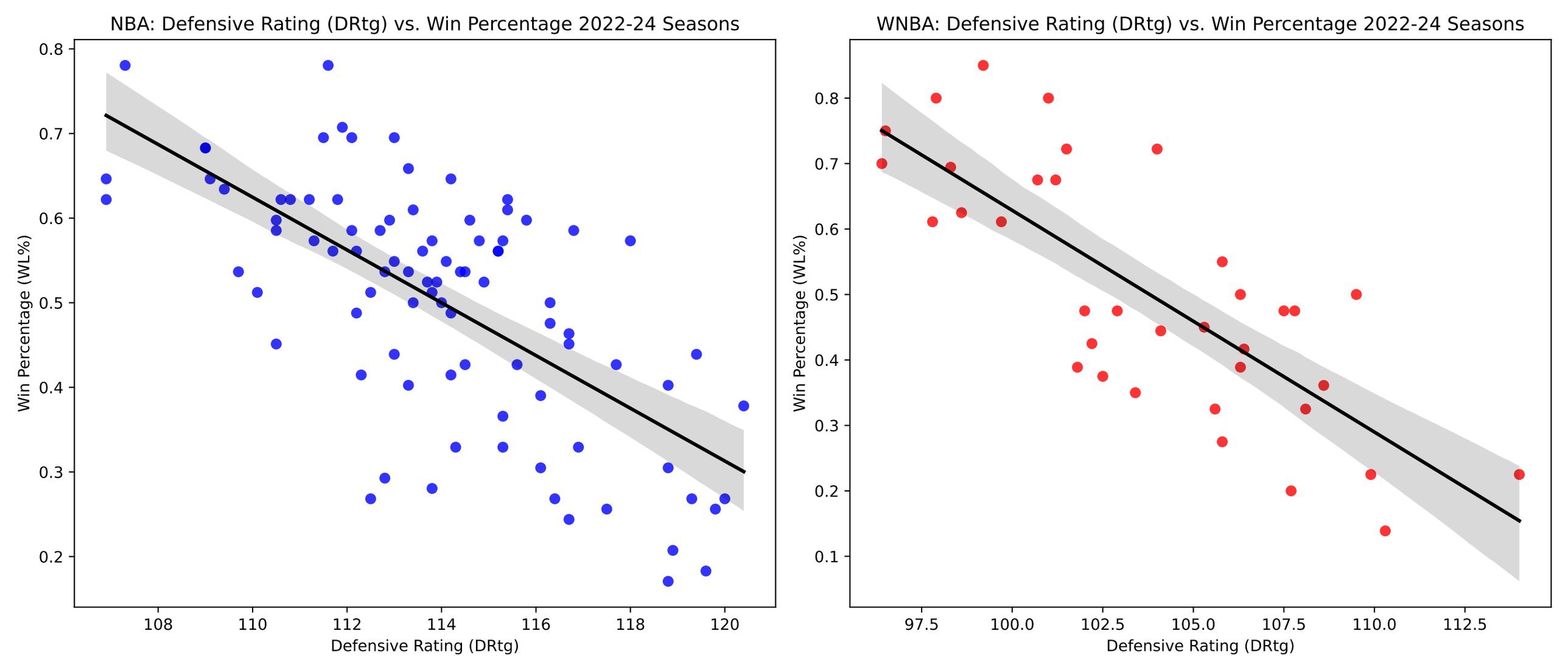
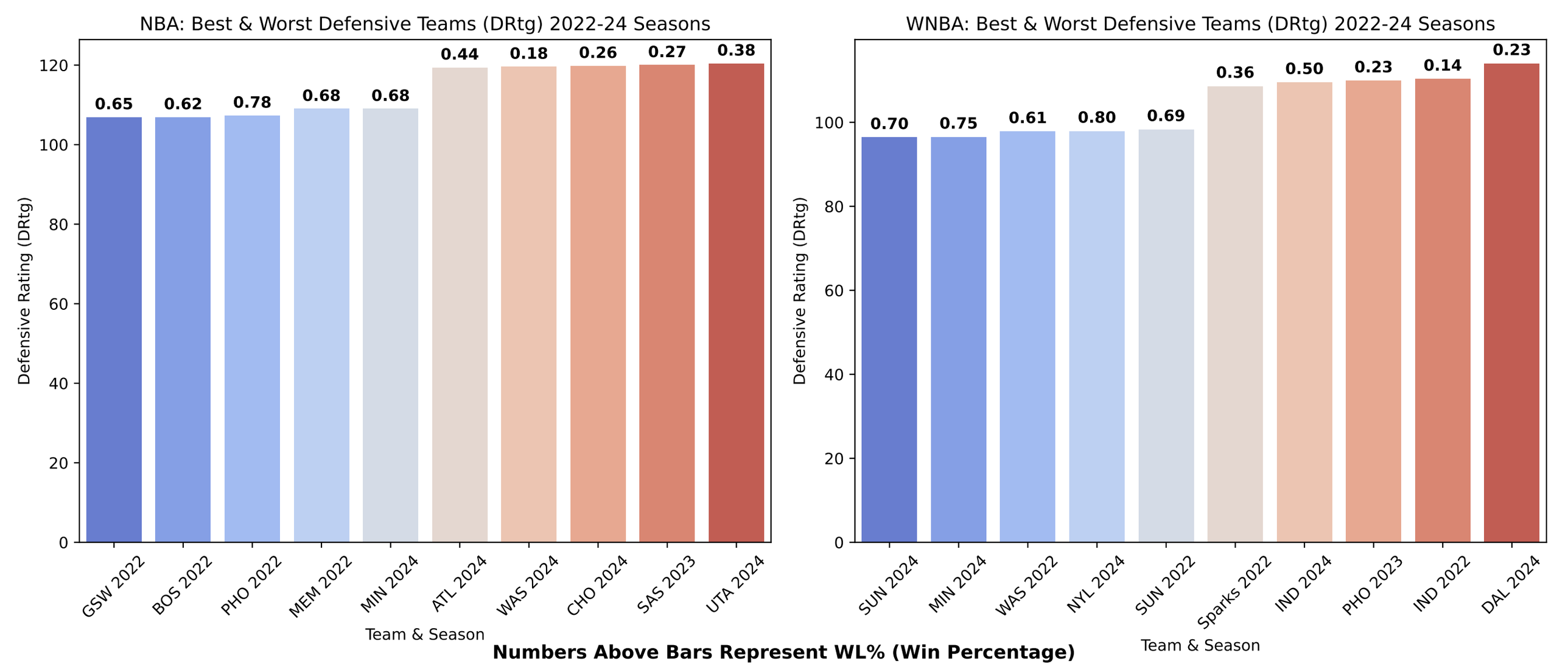
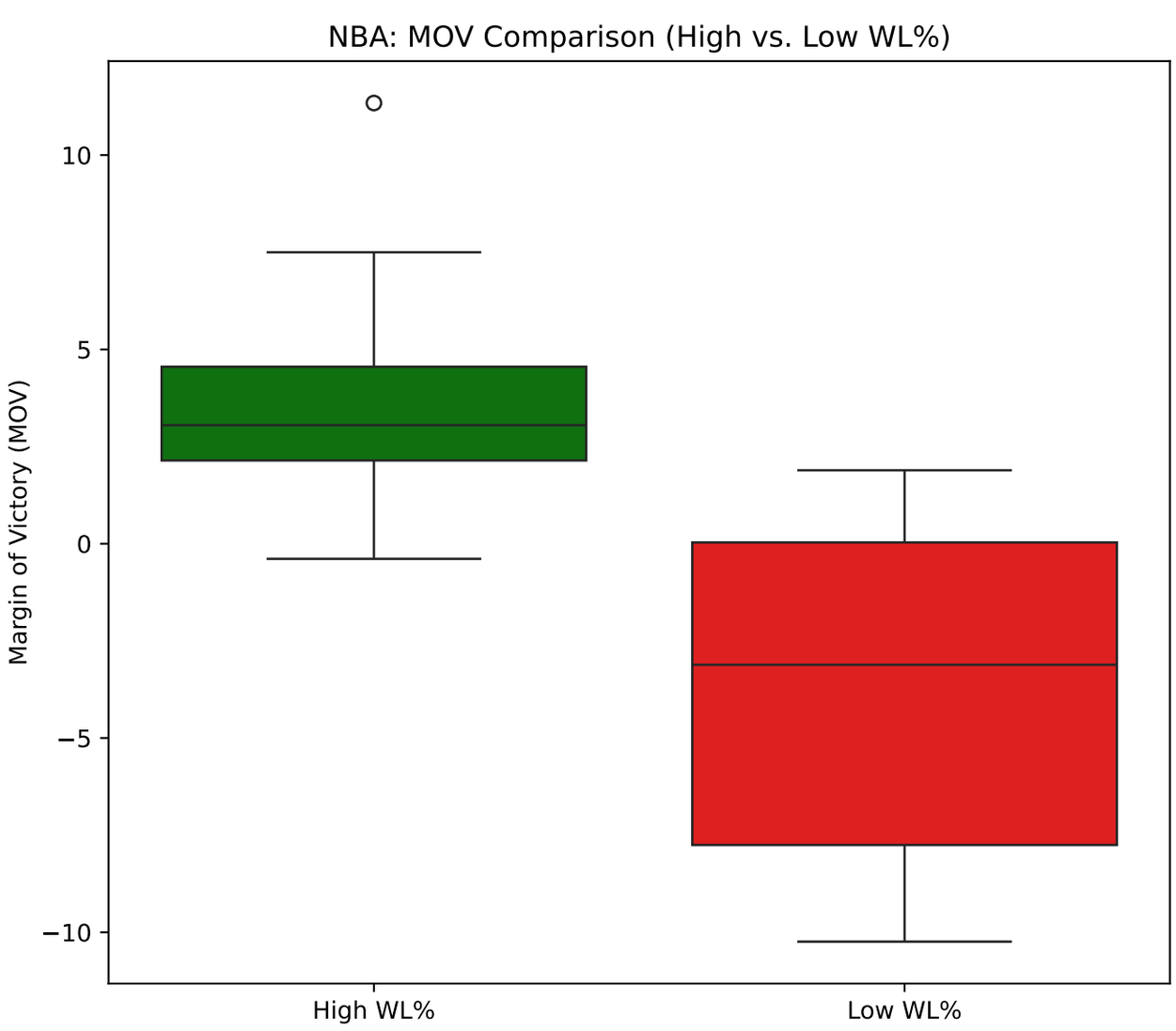

NBA Correlation Heatmap 2022-24 Seasons
WL%
MOV
SRS
ORtg
DRtg
Pace
1.000 0.964 0.964 0.746 -0.670 -0.267
0.964 1.000 0.999 0.778 -0.693 -0.279
0.964 0.999 1.000 0.777 -0.692 -0.278
0.746 0.778 0.777 1.000 -0.086 -0.051
-0.670 -0.693 -0.692 -0.086 1.000 0.388
-0.267 -0.279 -0.278 -0.051 0.388 1.000
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
WNBA Correlation Heatmap 2022-24 Seasons
WL%
MOV
SRS
ORtg
DRtg
Pace
1.000 0.968 0.967 0.834 -0.779 -0.044
0.968 1.000 0.999 0.840 -0.828 -0.047
0.967 0.999 1.000 0.842 -0.825 -0.035
0.834 0.840 0.842 1.000 -0.392 0.179
-0.779 -0.828 -0.825 -0.392 1.000 0.268
-0.044 -0.047 -0.035 0.179 0.268 1.000
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

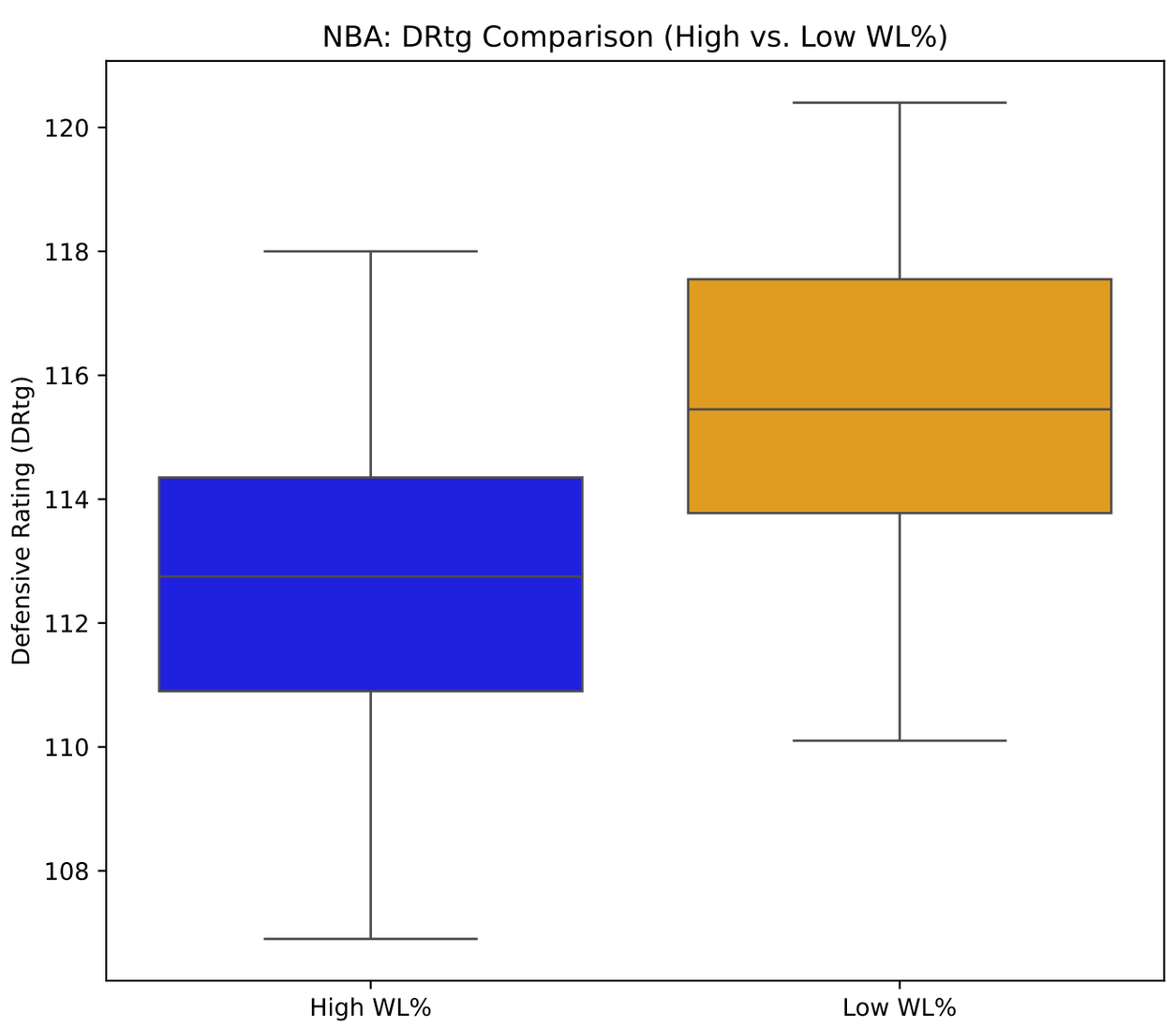

NBA: Defensive Rating (DRtg) vs. Win Percentage 2022-24 Seasons
Win Percentage (WL%)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
108
110
112
114
116
118
120
Defensive Rating (DRtg)
WNBA: Defensive Rating (DRtg) vs. Win Percentage 2022-24 Seasons
Win Percentage (WL%)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
97.5
100.0
102.5
105.0
107.5
110.0
112.5
Defensive Rating (DRtg)

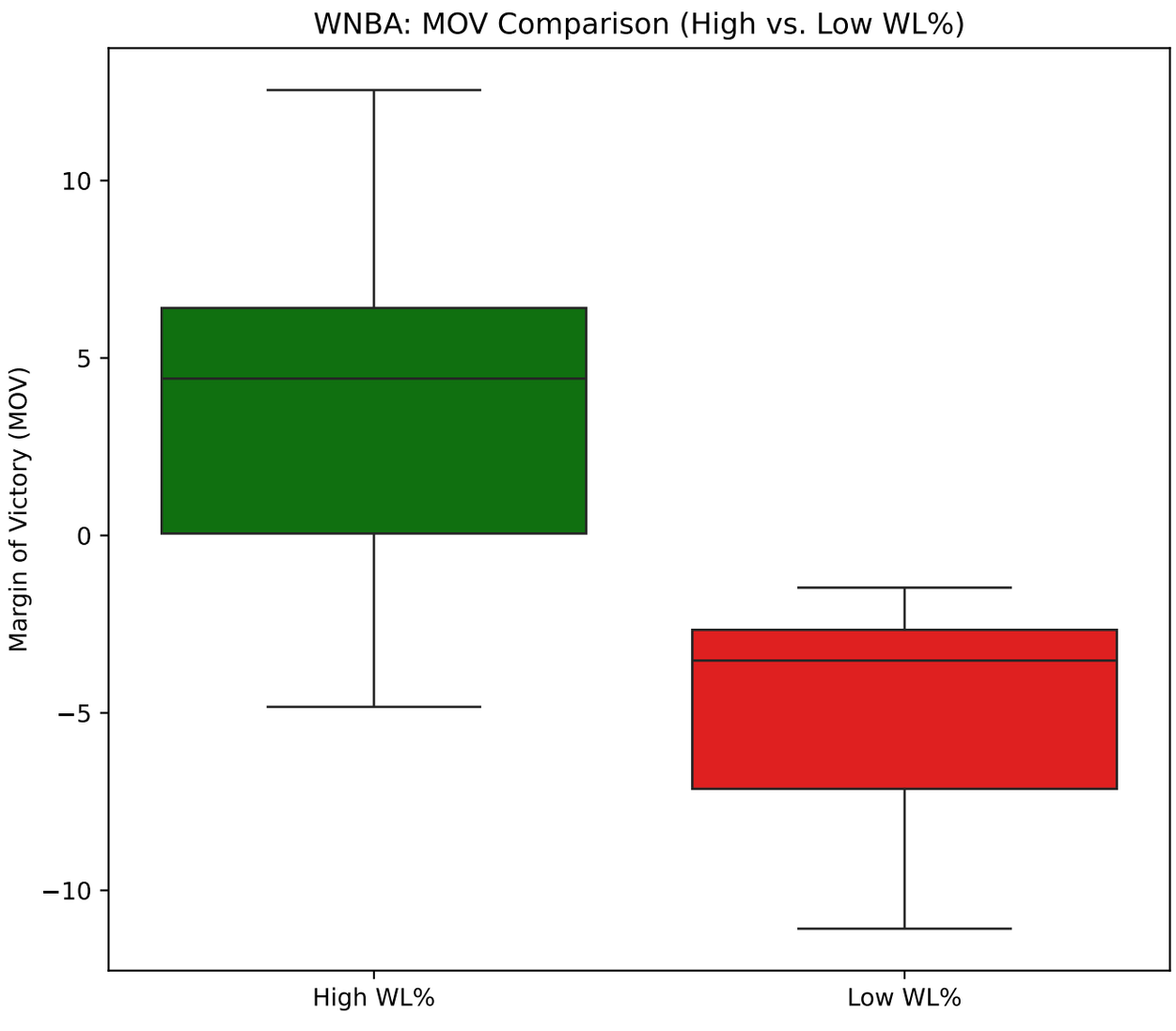

NBA: Best & Worst Defensive Teams (DRtg) 2022-24 Seasons
Defensive Rating (DRtg)
0
20
40
60
80
100
120
0.65
0.62
0.78
0.68
0.68
0.44
0.18
0.26
0.27
0.38
GSW 2022
BOS 2022
PHO 2022
MEM 2022
MIN 2024
ATL 2024
WAS 2024
CHO 2024
SAS 2023
UTA 2024
Team & Season
WNBA: Best & Worst Defensive Teams (DRtg) 2022-24 Seasons
Defensive Rating (DRtg)
0
20
40
60
80
100
0.70
0.75
0.61
0.80
0.69
0.36
0.50
0.23
0.14
0.23
SUN 2024
MIN 2024
WAS 2022
NYL 2024
SUN 2022
Sparks 2022
IND 2024
PHO 2023
IND 2022
DAL 2024
Team & Season
Numbers Above Bars Represent WL% (Win Percentage)

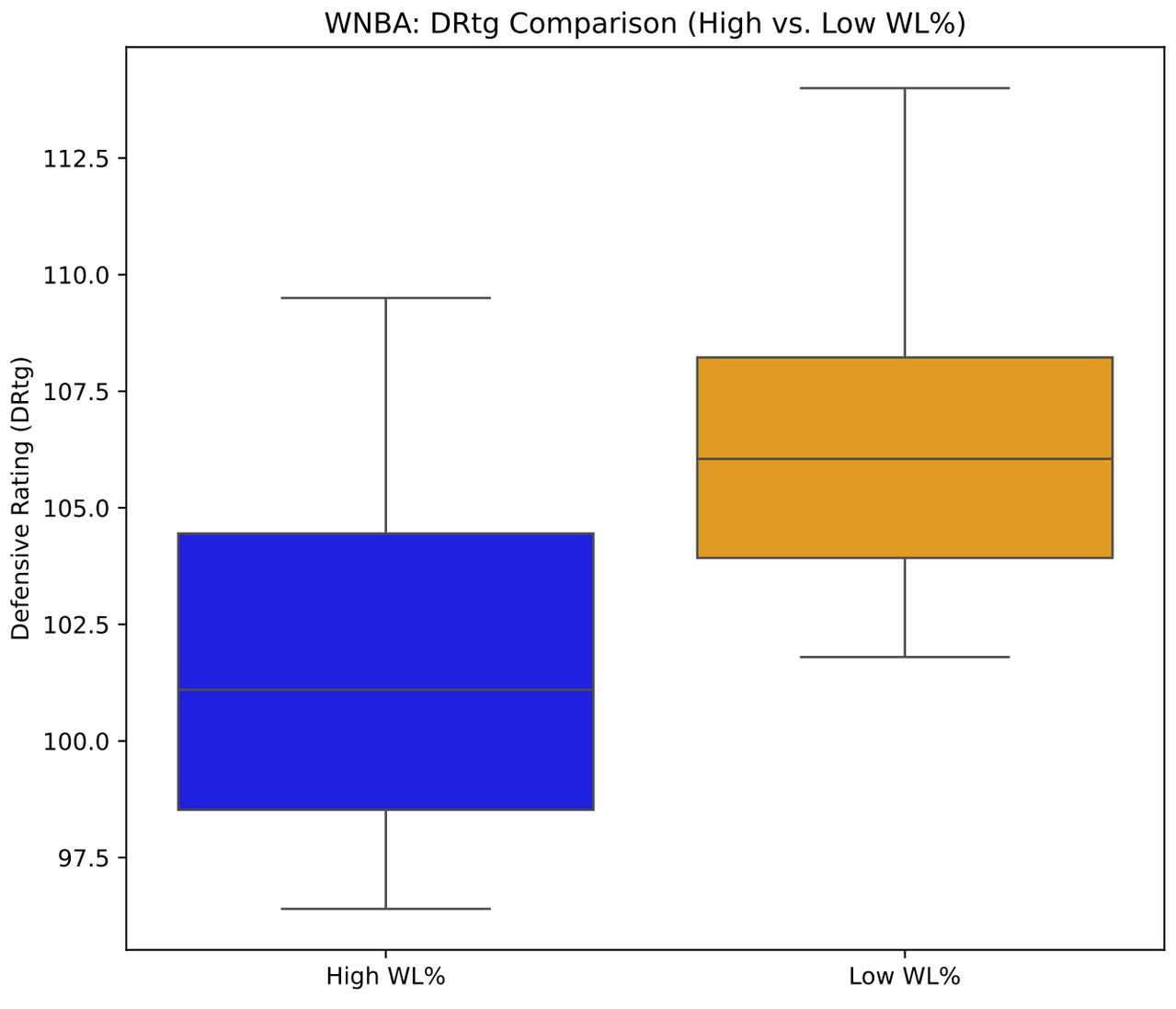
T-Test Results: High vs. Low WL%

```
=== NBA T-Test for MOV (High vs. Low WL%) ===
T-Statistic: 10.518
P-Value: 0.00000 *
Effect Size (Cohen's d): 2.230 (Large Effect)

=== WNBA T-Test for MOV (High vs. Low WL%) ===
T-Statistic: 6.764
P-Value: 0.00000 *
Effect Size (Cohen's d): 2.214 (Large Effect)

=== NBA T-Test for DRtg (High vs. Low WL%) ===
T-Statistic: -5.761
P-Value: 0.00000 *
Effect Size (Cohen's d): -1.216 (Large Effect)

=== WNBA T-Test for DRtg (High vs. Low WL%) ===
T-Statistic: -3.840
P-Value: 0.00051 *
Effect Size (Cohen's d): -1.276 (Large Effect)
```


NBA: MOV Comparison (High vs. Low WL%)
Margin of Victory (MOV)
10
5
0
−5
−10
High WL%
Low WL%

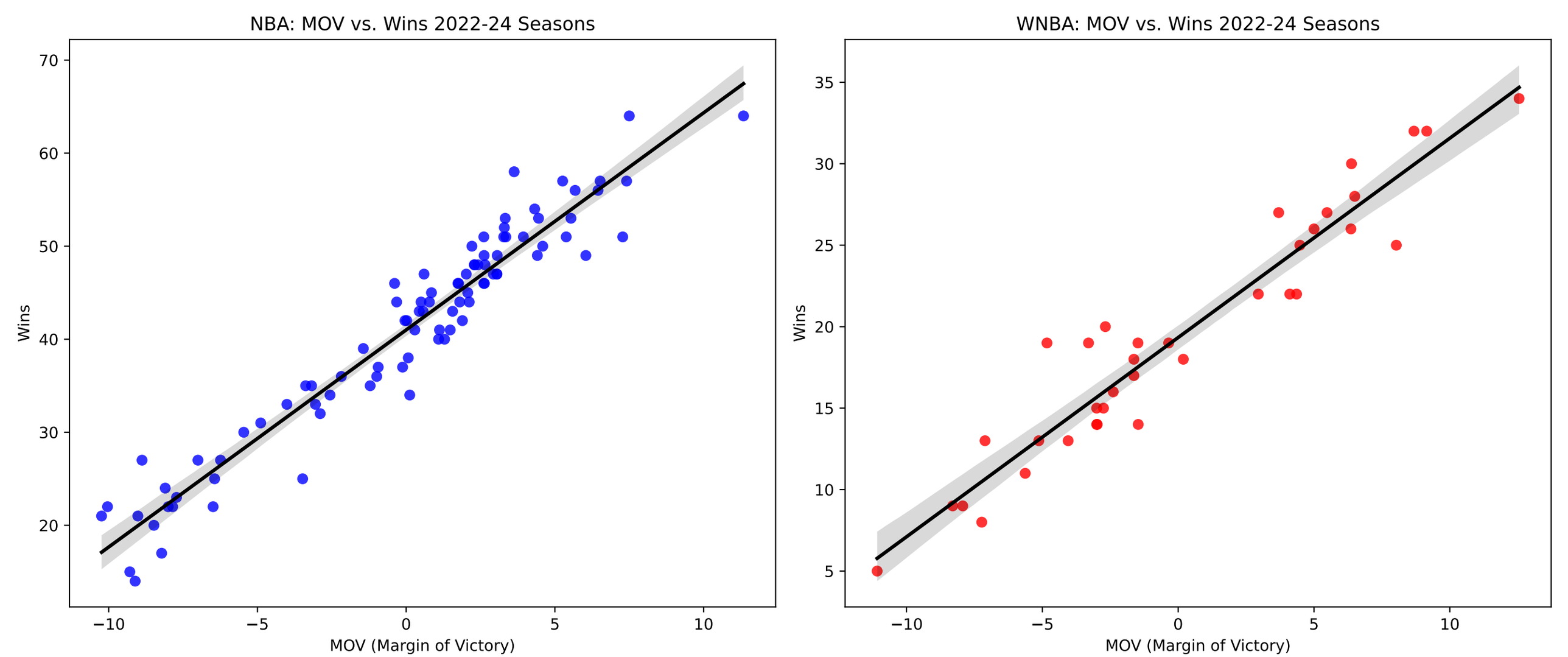

NBA: DRtg Comparison (High vs. Low WL%)
Defensive Rating (DRtg)
120
118
116
114
112
110
108
High WL%
Low WL%


WNBA: MOV Comparison (High vs. Low WL%)
Margin of Victory (MOV)
10
5
0
−5
−10
High WL%
Low WL%


WNBA: DRtg Comparison (High vs. Low WL%)
Defensive Rating (DRtg)
112.5
110.0
107.5
105.0
102.5
100.0
97.5
High WL%
Low WL%

Variance Inflation Factor (VIF) Analysis

```
=== NBA Variance Inflation Factor (VIF) ===
Feature         VIF
  const 2728.650268
    MOV 2917.594575
   ORtg 1529.439681
   DRtg 1160.020297

=== WNBA Variance Inflation Factor (VIF) ===
Feature         VIF
  const 2134.350673
    MOV 3358.229588
   ORtg 1246.730572
   DRtg 1167.965150
```


NBA: MOV vs. Wins 2022-24 Seasons
Wins
MOV (Margin of Victory)
70
60
50
40
30
20
−10
−5
0
5
10
WNBA: MOV vs. Wins 2022-24 Seasons
Wins
MOV (Margin of Victory)
35
30
25
20
15
10
5
−10
−5
0
5
10

=== NBA Regression Summary ===

OLS Regression Results

Dep. Variable:	W	R-squared:	0.929
Model:	OLS	Adj. R-squared:	0.928
Method:	Least Squares	F-statistic:	1152.
Date:	Tue, 25 Feb 2025	Prob (F-statistic):	2.46e-52
Time:	13:55:06	Log-Likelihood:	-228.87
No. Observations:	90	AIC:	461.7
Df Residuals:	88	BIC:	466.7
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
const	41.0013	0.328	124.985	0.000	40.349	41.653
MOV	2.3336	0.069	33.941	0.000	2.197	2.470

Omnibus:	0.928	Durbin-Watson:	1.814
Prob(Omnibus):	0.629	Jarque-Bera (JB):	0.468
Skew:	-0.126	Prob(JB):	0.791
Kurtosis:	3.247	Cond. No.	4.77

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

=== WNBA Regression Summary ===

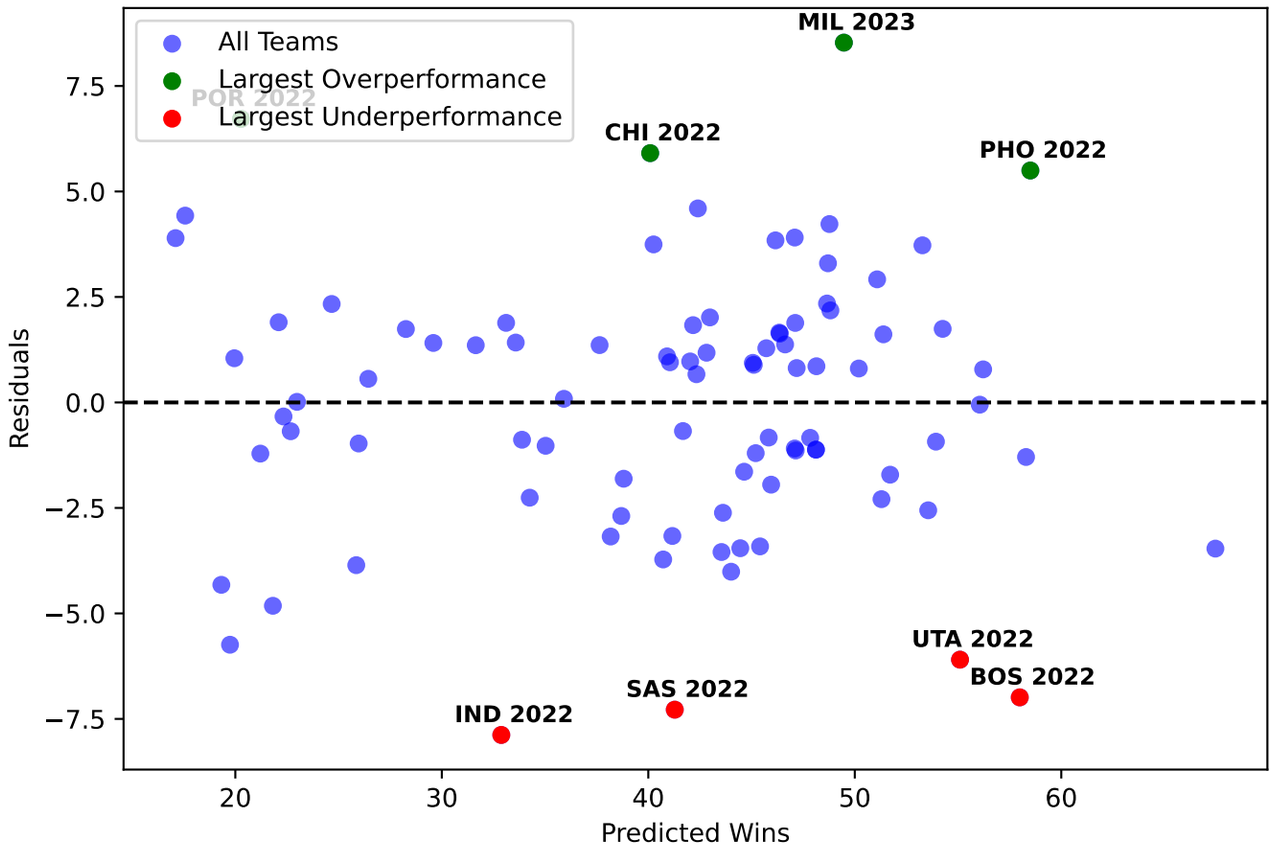
OLS Regression Results

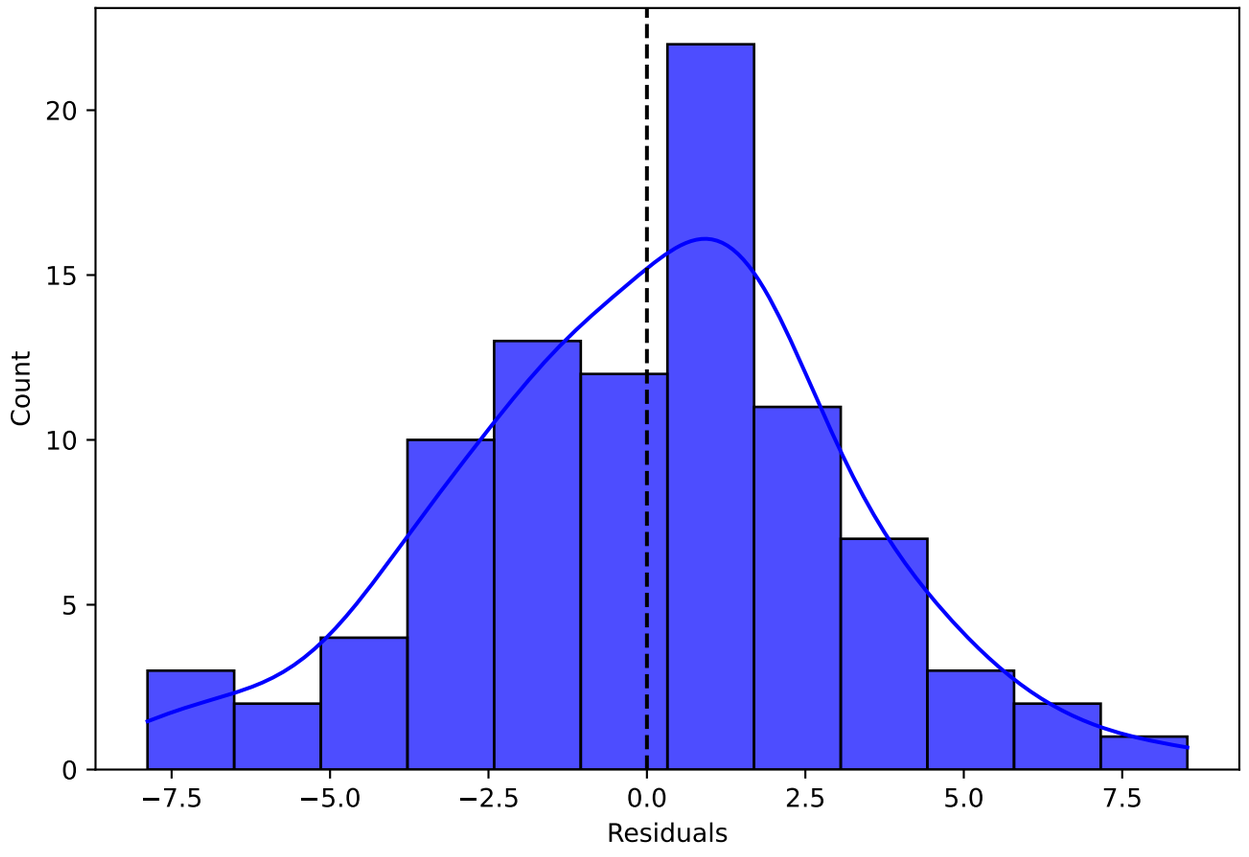
Dep. Variable:	W	R-squared:	0.915
Model:	OLS	Adj. R-squared:	0.913
Method:	Least Squares	F-statistic:	367.3
Date:	Tue, 25 Feb 2025	Prob (F-statistic):	8.45e-20
Time:	13:55:06	Log-Likelihood:	-78.021
No. Observations:	36	AIC:	160.0
Df Residuals:	34	BIC:	163.2
Df Model:	1		
Covariance Type:	nonrobust		

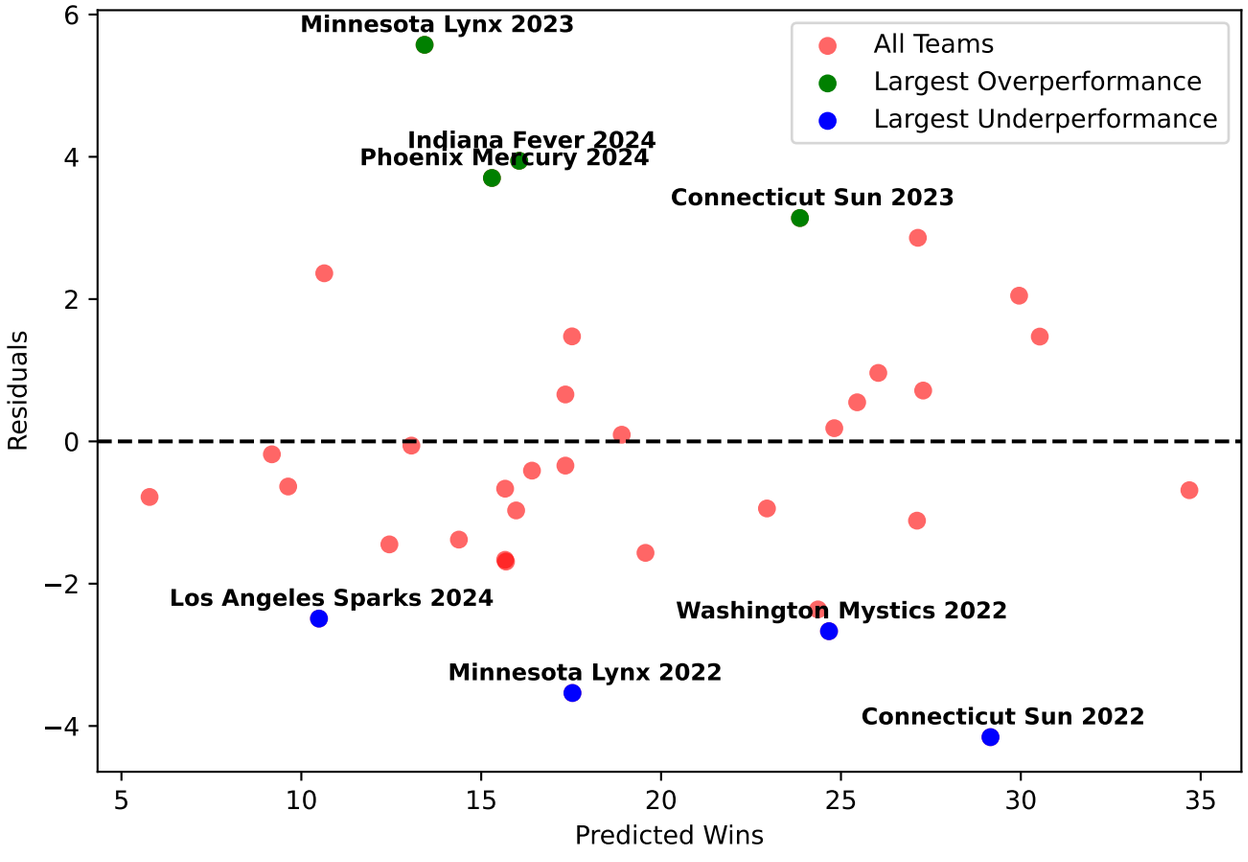
	coef	std err	t	P>|t|	[0.025	0.975]
const	19.3344	0.362	53.344	0.000	18.598	20.071
MOV	1.2232	0.064	19.166	0.000	1.094	1.353

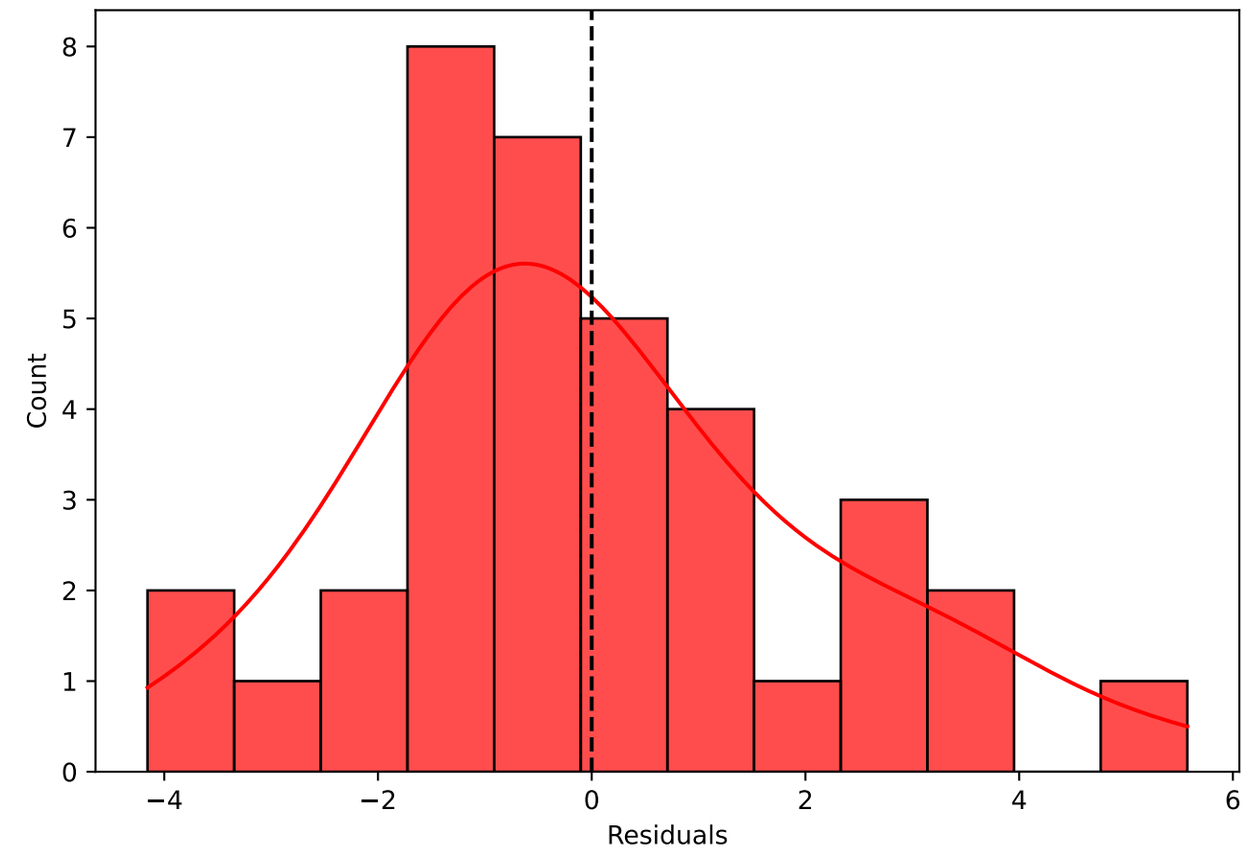
Omnibus:	2.498	Durbin-Watson:	1.817
Prob(Omnibus):	0.287	Jarque-Bera (JB):	1.743
Skew:	0.537	Prob(JB):	0.418
Kurtosis:	3.102	Cond. No.	5.68

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.


NBA Residuals vs. Predicted Wins
All Teams
Largest Overperformance
Largest Underperformance
MIL 2023
CHI 2022
PHO 2022
POR 2022
UTA 2022
BOS 2022
SAS 2022
IND 2022
Residuals
Predicted Wins


NBA Residuals Distribution
Count
Residuals


WNBA Residuals vs. Predicted Wins
All Teams
Largest Overperformance
Largest Underperformance
Minnesota Lynx 2023
Indiana Fever 2024
Phoenix Mercury 2024
Connecticut Sun 2023
Los Angeles Sparks 2024
Washington Mystics 2022
Minnesota Lynx 2022
Connecticut Sun 2022
Residuals
Predicted Wins


WNBA Residuals Distribution
Count
Residuals