

Simple Linear Regression: March Madness

Introduction

The NCAA Men's March Madness Basketball Tournament is a notoriously difficult tournament to predict. In fact, the best Bracketeers in history have never called every game correctly through the first three rounds. Why is it so difficult? Maybe it's great coaching, a brotherhood formed by experienced teams, or perhaps there is something in the air during March – nobody is certain. In an attempt to maybe one day craft the perfect bracket, the aim of this assignment is to build a model that successfully can predict the number of tournament wins a team will acquire come March.

The Data

The dataset utilized within this project was taken from Nishaan Amin's *March Madness Data* dataset on [Kaggle](#). Of the numerous tables provided, only the *Heat Check Tournament Index* and *KenPom Barttorvik* csvs were taken.

The *Heat Check Tournament Index* dataset is composed of March Madness data after tournament seeding has been conducted, but before any games have been played. Relevant information includes POWER and PATH – referencing a power rating of each team and a rating of the difficulty of their path to the championship, respectively.

Meanwhile, the *KenPom Barttorvik* dataset includes the following relevant information KADJ.O (adjusted offense rating), KADJ.D (adjusted defensive rating), BARTHAG (projected win percentage against average D1 team at a neutral site), WIN. (win percentage), FTR (rate of possessions resulting in free throws), TOV. (rate of possessions resulting in turnovers on offense), TOV.D (rate of possessions resulting in turnovers on defense), OREB. (rate of second missed shots resulting in offensive rebounds, DREB. (rate of missed shots resulting in defensive rebounds), X3PT. (three point field goal percentage), X3PT.D (three point field goal percentage

against defense), AST. (rate of possessions resultant of an assist), EXP (rating of a team's experience), and ELITE.SOS (rating of a team's strength of schedule).

These datasets were merged in R on the identifiers YEAR, TEAM.NO, TEAM, SEED, ROUND. After merging, all null values were omitted from the dataset and only the desired columns were taken. This resulted in a new dataset of 640 observations with 20 total variables (17 explanatory variables, 2 identifier variables, and 1 target variable). The target variable/observation of interest was WINS – which means the number of wins a team had in the tournament. For example, if a team lost their first game and was eliminated, they would have 0 WINS. At the same time, a team with 6 WINS equates to the national champion for that year with wins in the round of 64, 32, Sweet 16, Elite 8, Final 4, and the championship.

The Process

After importing the data to SAS, the 640 observations were split with a sample rate of 95%. This left 32 observations to be excluded on the dataset – not for testing, but instead to use as an example of future prediction intervals. With these other 608 observations, a linear model was regressed where different metrics and plots were recorded, such as RSQUARE, ADJRSQ, AIC, SBC, PRESS, and residual plots. Each of the metrics performed poorly (0.3943, 0.3769, 75.0403, 154.423, 687.903, respectively) and the fit diagnostics demonstrated non-constant error variance and non-independence of errors for many of the predictor variables. Additionally, many of the explanatory variables appeared non-significant by their respective Fisher tests. Thus, the first focus was on multicollinearity. Thus, Variance Inflation Factors were calculated (and removed if larger than 10) and two of the metrics: KADJ_O, KADJ_D, were combined. The resulting variables were WIN_, FTR, TOV_, TOV_D, OREB_, DREB_, X3PT_, X3PT_D, AST_, EXP, PATH, ELITE_SOS, and KADJ_COMB.

Next, to further improve this model it was beneficial to address heteroscedasticity and assume constant error variance by regressing the model on Weighted Least Squares. The

weight equation was taken calculating the inverse of the residuals due to the fact that the original model had many outliers. After doing so, the diagnostic metrics had significantly improved (RSQUARE, ADJRSQ, AIC, SBC, PRESS equal to 0.73639, 0.73062, -100.374, -38.6314, and 503.535, respectively). Additionally, the diagnostic plots appeared to hold non-correlated error variance for most of the explanatory variables.

The next step was to determine which variables were significantly interacting with one another and contributing to the model. Thus, the best models according to ADJRSQ, CP, and Forward Stepwise Regression were considered. Although all three metrics proposed different “best” models, the same first 10 variables were provided in the ADJRSQ top 3, the CP top 3, and showed significant F values in the Stepwise regression. Thus, the relevant predictor variables included: WIN_, FTR, TOV_D, DREB_, X3PT_D, AST_, EXP, PATH, ELITE_SOS, and KADJ_COMB. This proved to be the best model with exceptional fit diagnostics and a reasonable number of parameters.

Finally, the 32 observations not included on the dataset were brought back in using the calculated beta values, the standard error, and a t-distribution value of 95% to calculate the prediction intervals for these unseen cases and can be referenced below.

Conclusions

As referenced, the NCAAM March Madness Tournament is full of surprises and no easy simulation. While our refined model successfully takes the raw data and outputs criteria indicative of a good model (ADJRSQ, RSQUARE, AIC, SBC, PRESS, CP), it would still most likely take a miracle to successfully simulate upcoming tournament outcomes. From our 32 additional observations, the model tends to under project wins. This is most likely a symptom of the fact that the majority of teams do not win a single game and that “Cinderella” picks are hard to come by. Thus, the calculation of prediction intervals helps paint a better picture of the range of wins a team may accomplish. Further analysis should be conducted to possibly standardize

input and target variables to calculate which factors are the most significant as well and oversample the teams with a larger number of tournament wins.

Appendix

CODE:

```
TITLE 'March Madness Analysis';

/* Import CSV file */

PROC IMPORT

DATAFILE="/home/u63617636/march_madness_aggregate.csv"

    OUT=NCAAM

    DBMS=CSV

    REPLACE;

    GETNAMES=YES;

RUN;

/* CREATE VARIABLE LIST WITH ALL DESIRED COLUMNS */

TITLE 'VARIABLE NAMES';

PROC SQL;

    SELECT name

    INTO :varlist SEPARATED BY ' '

    FROM dictionary.columns

    WHERE memname = "NCAAM" AND name NOT IN ('SELECTED', 'VAR1',

'YEAR', 'TEAM', 'WINS');

QUIT;

TITLE 'SPLIT DATA';

/* SPLIT DATA INTO TRAINING AND TESTING */

PROC SURVEYSELECT DATA=NCAAM SAMPRATE=0.95 SEED=1122

OUT=NCAAMBASE OUTALL;
```

```
RUN;

/* FILTER TRAINING DATASET FOR SELECTED=0; THE TESTING SET */

DATA NCAAMNEWOBS;

    SET NCAAMBASE;

    IF Selected = 0;

RUN;

/* FILTER TRAINING DATASET FOR SELECTED=1; THE TRAINING SET */

DATA NCAAMBASE;

    SET NCAAMBASE;

    IF Selected = 1;

RUN;

%PUT &varlist;

TITLE 'STARTING REGRESSION';

/* BEGINNING REGRESSION W/ ALL PREDICTOR VARIABLES */

PROC REG OUTEST=EST1 DATA=NCAAMBASE;

    MODEL WINS = &varlist / RSQUARE ADJRSQ AIC SBC PRESS;

RUN;

PROC PRINT DATA=EST1;

RUN;

TITLE 'VIF INFLUENCE';

/* Address Multicollinearity */

PROC REG DATA=NCAAMBASE;

    MODEL WINS = &varlist / VIF;
```

```
        OUTPUT OUT=DIAGNOSTICS STUDENT=STUDENT RSTUDENT=RSTUDENT H=H
COOKD=COOKD DFFITS=DFFITS PRESS=PRESS;

RUN;

DATA NCAAMBASE;

    SET NCAAMBASE;

    KADJ_COMB = sum(KADJ_O, KADJ_D);

RUN;

DATA NCAAMNEWOBS;

    SET NCAAMNEWOBS;

    KADJ_COMB = sum(KADJ_O, KADJ_D);

RUN;

PROC REG DATA=NCAAMBASE;

    MODEL WINS = WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_ X3PT_D AST_
EXP PATH ELITE_SOS KADJ_COMB / VIF;

    OUTPUT OUT=DIAGNOSTICS STUDENT=STUDENT RSTUDENT=RSTUDENT H=H
COOKD=COOKD DFFITS=DFFITS PRESS=PRESS;

    OUTPUT OUT=RESIDUALS R=RESIDUALS;

RUN;

TITLE 'WEIGHTED LEAST SQUARES';

/* CREATE WEIGHTING FOR THE DATA USING ABSOLUTE VALUE INVERSE BC
OF LARGE # OF OUTLIERS */

DATA WEIGHTED_DATA;

    SET RESIDUALS;

    WEIGHT_VAR = 1/ABS(RESIDUALS);
```

```
RUN;

/* USE WEIGHTS TO REGRESS */

PROC REG OUTEST=EST2 DATA=WEIGHTED_DATA;

    MODEL WINS = WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_ X3PT_D
AST_ EXP PATH ELITE_SOS KADJ_COMB / RSQUARE ADJRSQ AIC SBC
PRESS;

    WEIGHT WEIGHT_VAR;

RUN;

PROC PRINT DATA=EST2;
```


VARIABLE NAMES

Column Name
SEED
KADJ_O
KADJ_D
BARTHAG
WIN_
FTR
TOV_
TOV_D
OREB_
DREB_
X3PT_
X3PT_D
AST_
EXP
ELITE_SOS
POWER
PATH

SPLIT DATA

The SURVEYSELECT Procedure

Selection Method	Simple Random Sampling
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Input Data Set	NCAAM
Random Number Seed	1122
Sampling Rate	0.95
Sample Size	608
Selection Probability	0.95
Sampling Weight	0
Output Data Set	NCAAMBASE

STARTING REGRESSION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	422.08529	24.82855	22.60	<.0001
Error	590	648.32096	1.09885		
Corrected Total	607	1070.40625			

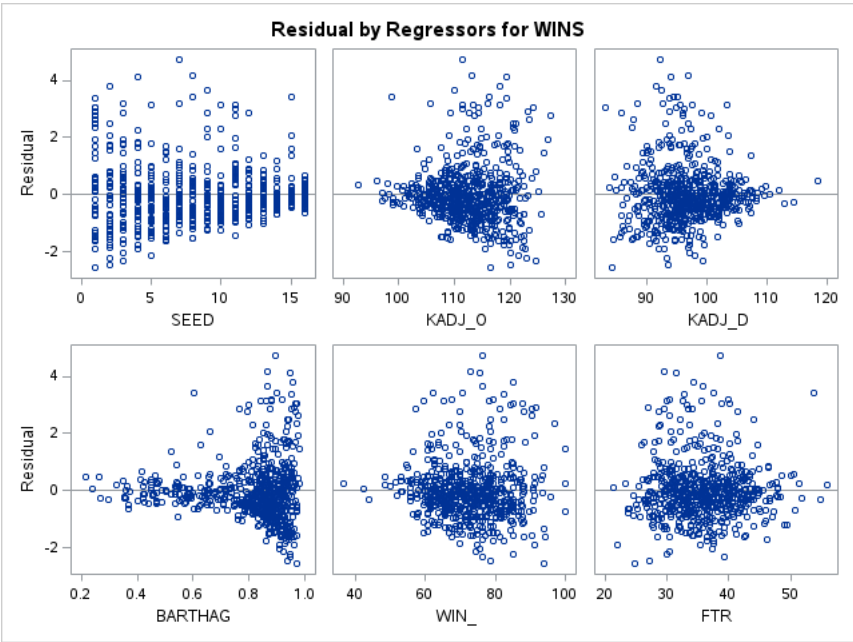
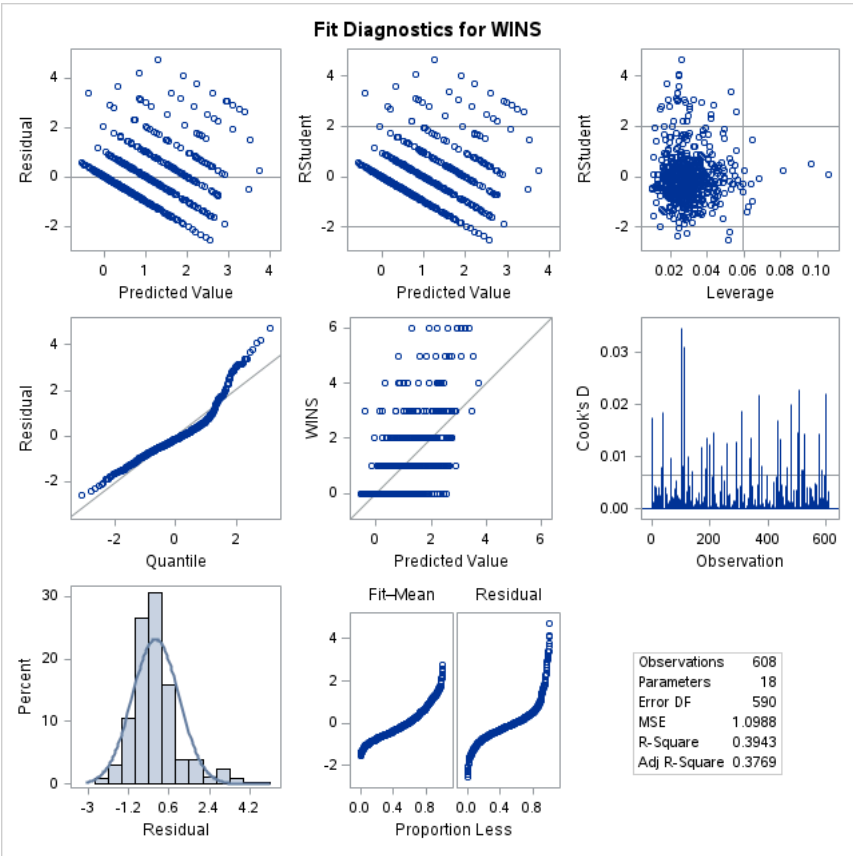
Root MSE	1.04826	R-Square	0.3943
Dependent Mean	0.96875	Adj R-Sq	0.3769
Coeff Var	108.20749		

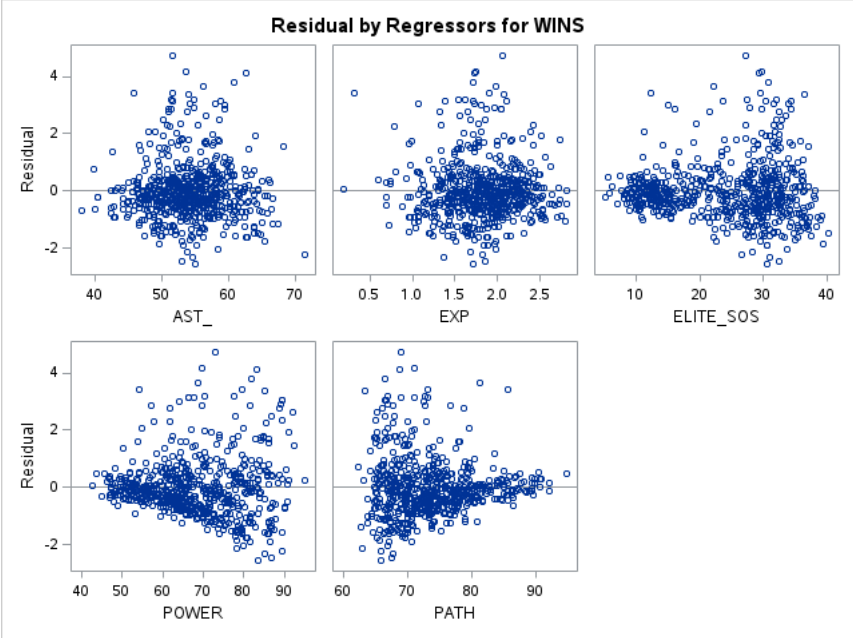
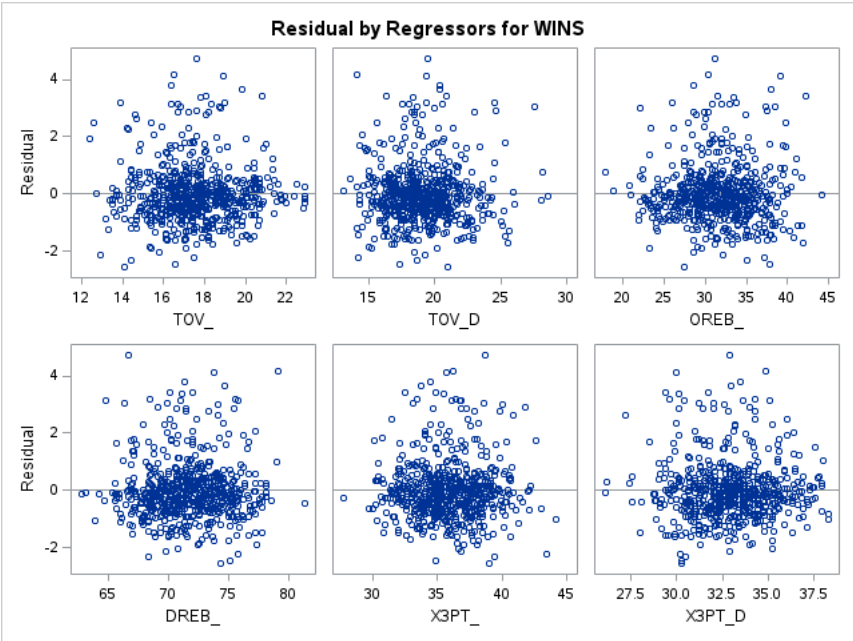
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.92962	3.71469	-0.79	0.4306
SEED	1	0.08686	0.03324	2.61	0.0092
KADJ_O	1	0.06525	0.03392	1.92	0.0548
KADJ_D	1	-0.02446	0.03435	-0.71	0.4767
BARTHAG	1	-5.13215	1.05280	-4.87	<.0001
WIN_	1	0.02485	0.00997	2.49	0.0129
FTR	1	-0.01462	0.00872	-1.68	0.0941
TOV_	1	0.02511	0.03219	0.78	0.4357
TOV_D	1	0.04852	0.02470	1.96	0.0500
OREB_	1	-0.02497	0.01427	-1.75	0.0807
DREB_	1	-0.01844	0.01994	-0.92	0.3554
X3PT_	1	-0.02230	0.02322	-0.96	0.3373
X3PT_D	1	-0.00292	0.02498	-0.12	0.9069
AST_	1	-0.01478	0.00892	-1.66	0.0982
EXP	1	-0.10220	0.11176	-0.91	0.3608
ELITE_SOS	1	0.03544	0.01552	2.28	0.0227
POWER	1	0.08462	0.01828	4.63	<.0001

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
PATH	1	-0.03998	0.01390	-2.88	0.0042

STARTING REGRESSION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





STARTING REGRESSION

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	SEED	KADJ_O	KADJ_D	BARTHAG	WIN_	FTR	TOV_	TOV_D	OREB_	DREB_	X3PT_	X3PT_D	
1	MODEL1	PARMS	WINS	1.04826	687.903	-2.92962	0.086856	0.065250	-0.024457	-5.13215	0.024854	-0.014618	0.025111	0.048522	-0.024970	-0.018443	-0.022302	-0.002923271	-0.0

VIF INFLUENCE

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	422.08529	24.82855	22.60	<.0001
Error	590	648.32096	1.09885		
Corrected Total	607	1070.40625			

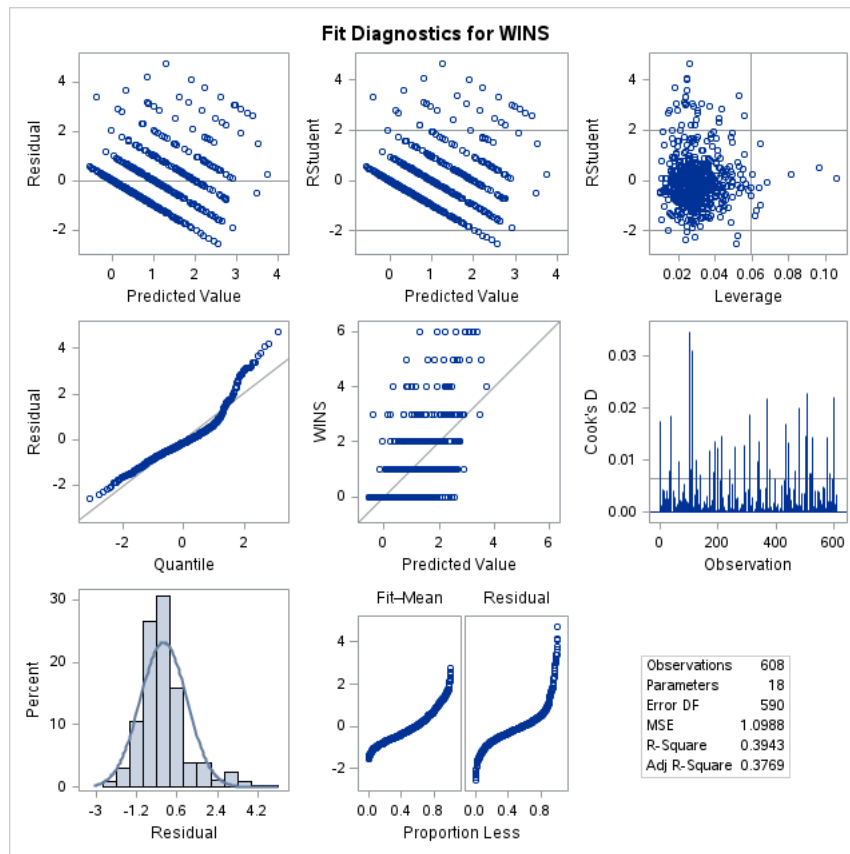
Root MSE	1.04826	R-Square	0.3943
Dependent Mean	0.96875	Adj R-Sq	0.3769

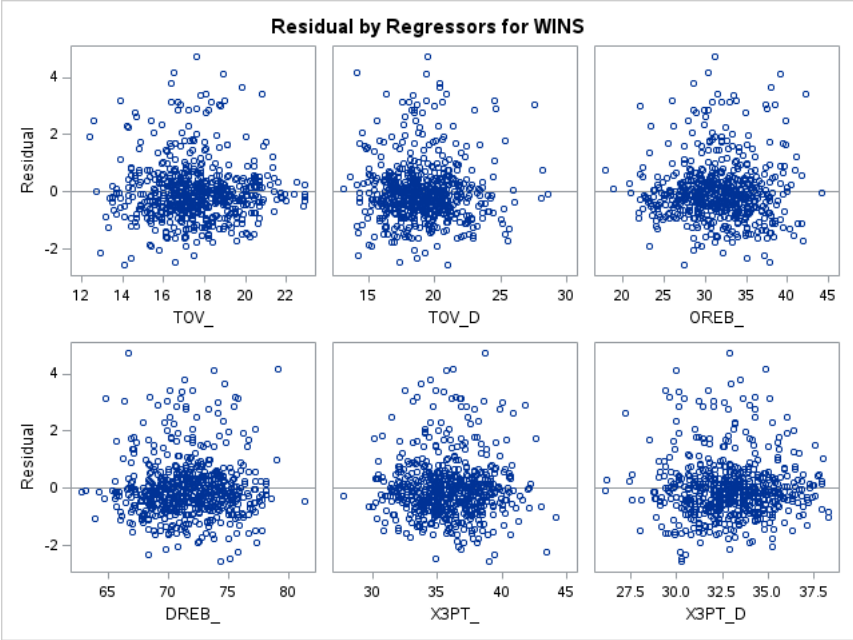
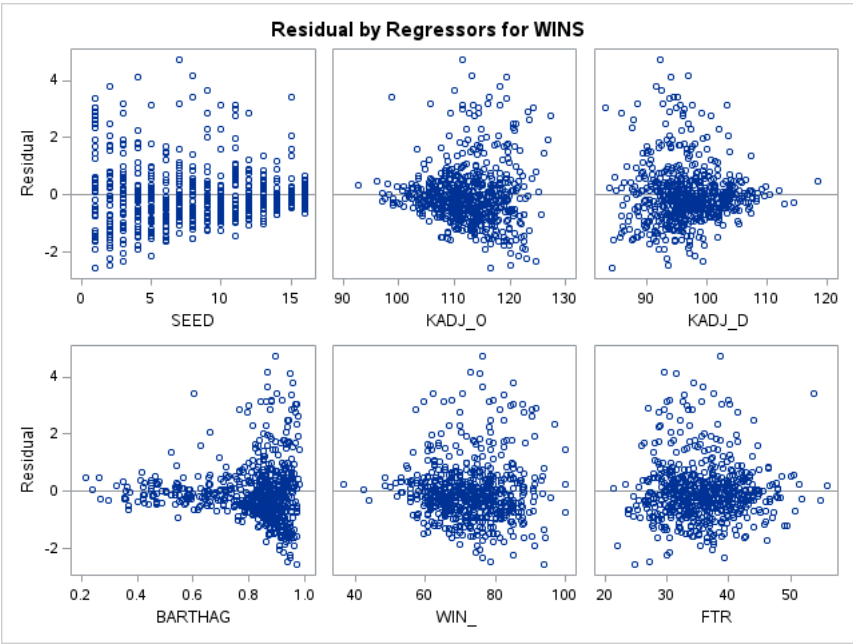
Coeff Var	108.20749		
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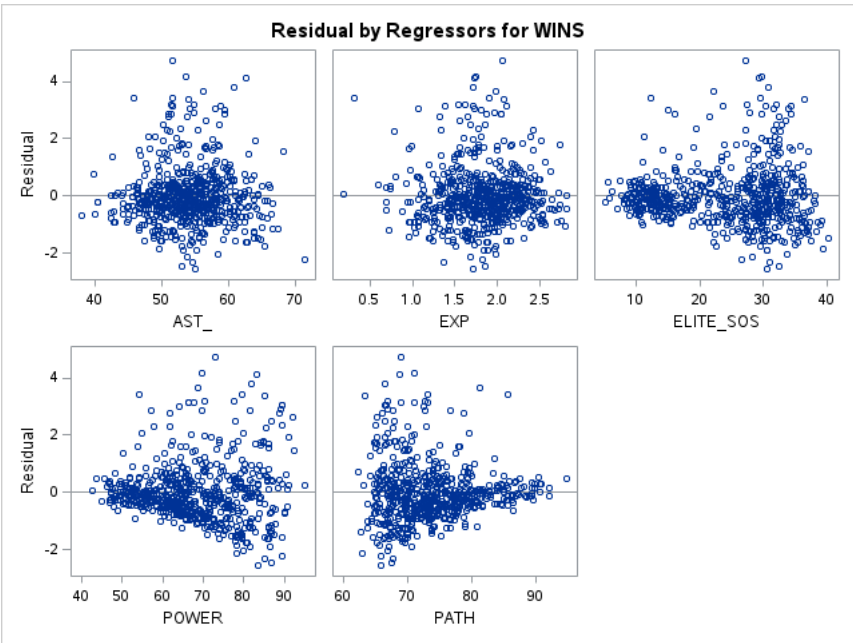
Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-2.92962	3.71469	-0.79	0.4306	0
SEED	1	0.08686	0.03324	2.61	0.0092	13.00466
KADJ_O	1	0.06525	0.03392	1.92	0.0548	20.57122
KADJ_D	1	-0.02446	0.03435	-0.71	0.4767	18.33650
BARTHAG	1	-5.13215	1.05280	-4.87	<.0001	14.61977
WIN_	1	0.02485	0.00997	2.49	0.0129	5.20217
FTR	1	-0.01462	0.00872	-1.68	0.0941	1.36854
TOV_	1	0.02511	0.03219	0.78	0.4357	2.06807
TOV_D	1	0.04852	0.02470	1.96	0.0500	2.00366
OREB_	1	-0.02497	0.01427	-1.75	0.0807	2.05041
DREB_	1	-0.01844	0.01994	-0.92	0.3554	2.01646
X3PT_	1	-0.02230	0.02322	-0.96	0.3373	1.99552
X3PT_D	1	-0.00292	0.02498	-0.12	0.9069	1.53290
AST_	1	-0.01478	0.00892	-1.66	0.0982	1.21238
EXP	1	-0.10220	0.11176	-0.91	0.3608	1.22123
ELITE_SOS	1	0.03544	0.01552	2.28	0.0227	10.50102
POWER	1	0.08462	0.01828	4.63	<.0001	23.81598
PATH	1	-0.03998	0.01390	-2.88	0.0042	4.21119

VIF INFLUENCE

The REG Procedure
Model: MODEL1
Dependent Variable: WINS







VIF INFLUENCE

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

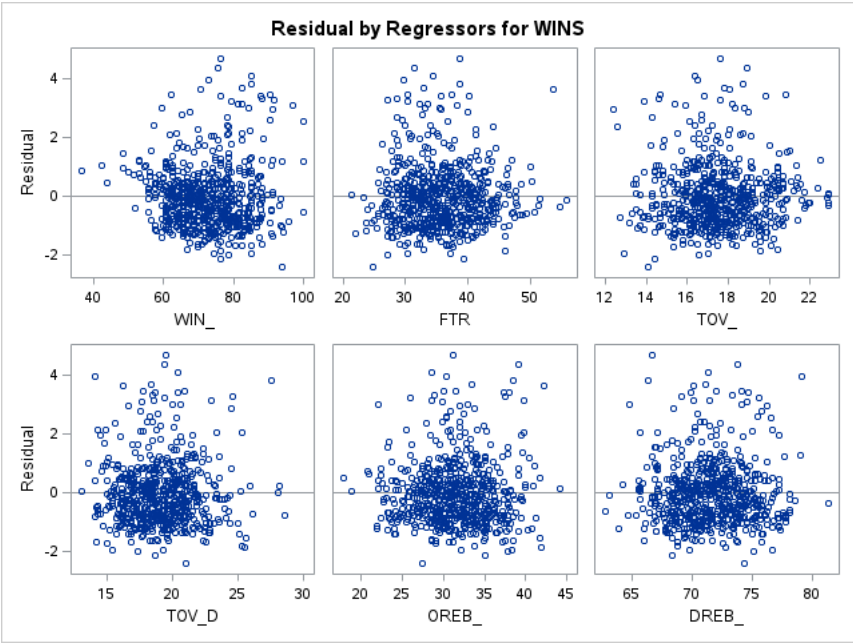
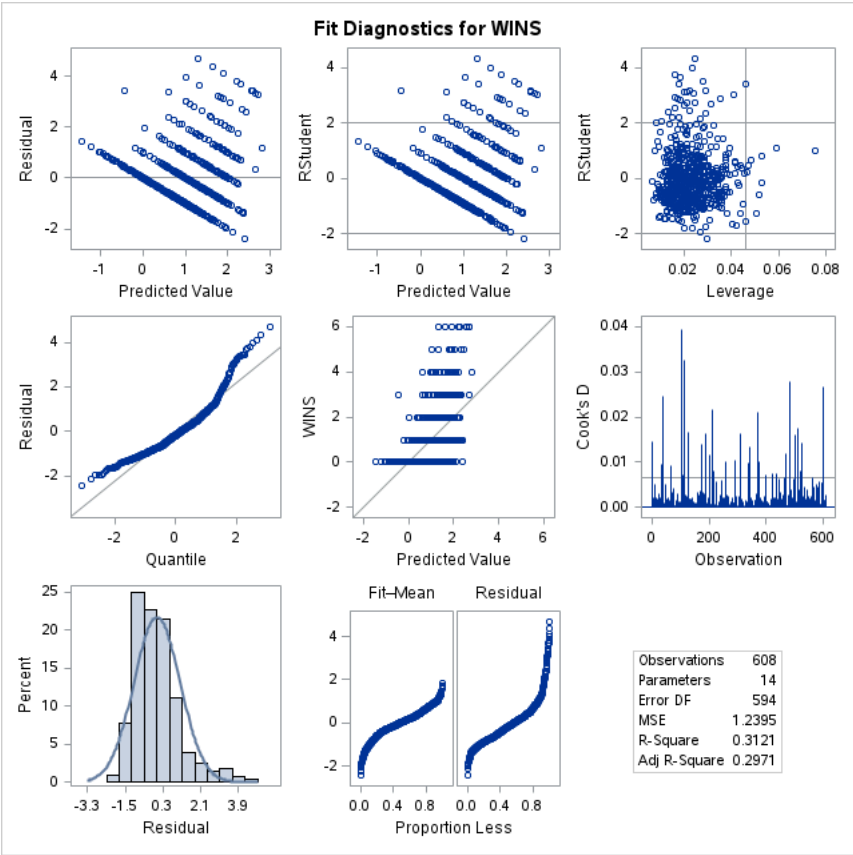
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	334.11892	25.70146	20.73	<.0001
Error	594	736.28733	1.23954		
Corrected Total	607	1070.40625			

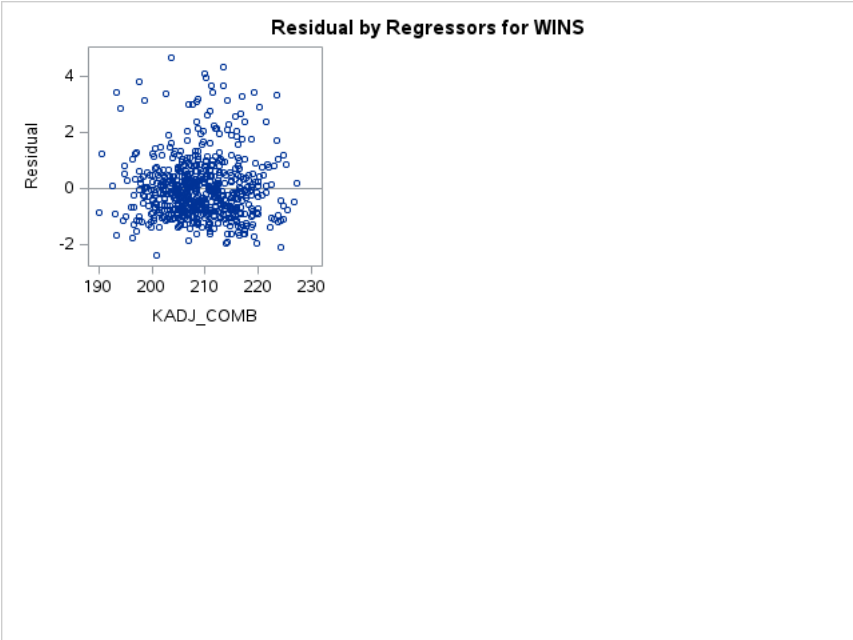
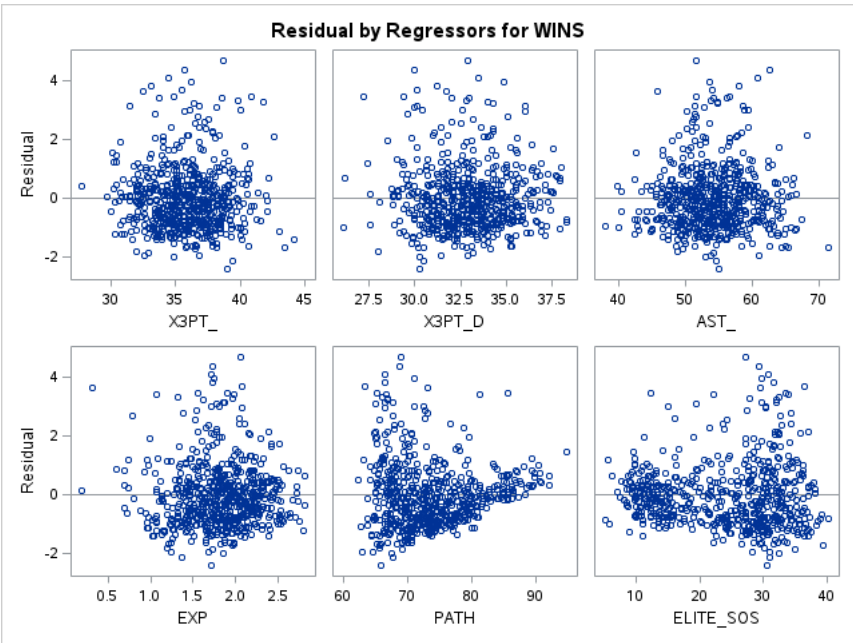
Root MSE	1.11335	R-Square	0.3121
Dependent Mean	0.96875	Adj R-Sq	0.2971
Coeff Var	114.92612		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-2.63917	3.43316	-0.77	0.4424	0
WIN_	1	0.03430	0.00758	4.53	<.0001	2.66582
FTR	1	-0.01649	0.00923	-1.79	0.0746	1.36106
TOV_	1	0.00328	0.03265	0.10	0.9201	1.88555
TOV_D	1	0.05459	0.02529	2.16	0.0313	1.86204
OREB_	1	0.00734	0.01369	0.54	0.5921	1.67207
DREB_	1	-0.00993	0.02034	-0.49	0.6255	1.85990
X3PT_	1	0.01473	0.02333	0.63	0.5280	1.78538
X3PT_D	1	-0.02923	0.02580	-1.13	0.2577	1.44986
AST_	1	-0.01639	0.00937	-1.75	0.0807	1.18508
EXP	1	-0.25938	0.11664	-2.22	0.0265	1.17940
PATH	1	-0.03551	0.01338	-2.65	0.0082	3.46032
ELITE_SOS	1	0.03985	0.00876	4.55	<.0001	2.96782
KADJ_COMB	1	0.02167	0.01060	2.04	0.0414	2.50592

VIF INFLUENCE

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





WEIGHTED LEAST SQUARES

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	1375.17161	105.78243	127.64	<.0001
Error	594	492.27313	0.82874		
Corrected Total	607	1867.44474			

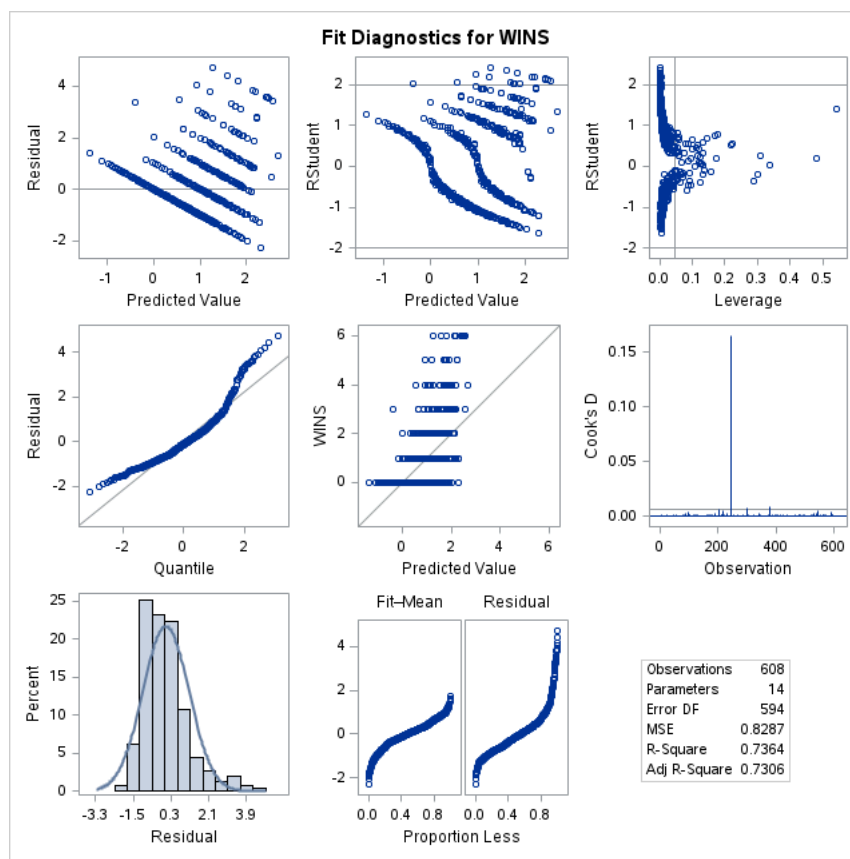
Root MSE	0.91035	R-Square	0.7364
Dependent Mean	0.70191	Adj R-Sq	0.7306
Coeff Var	129.69714		

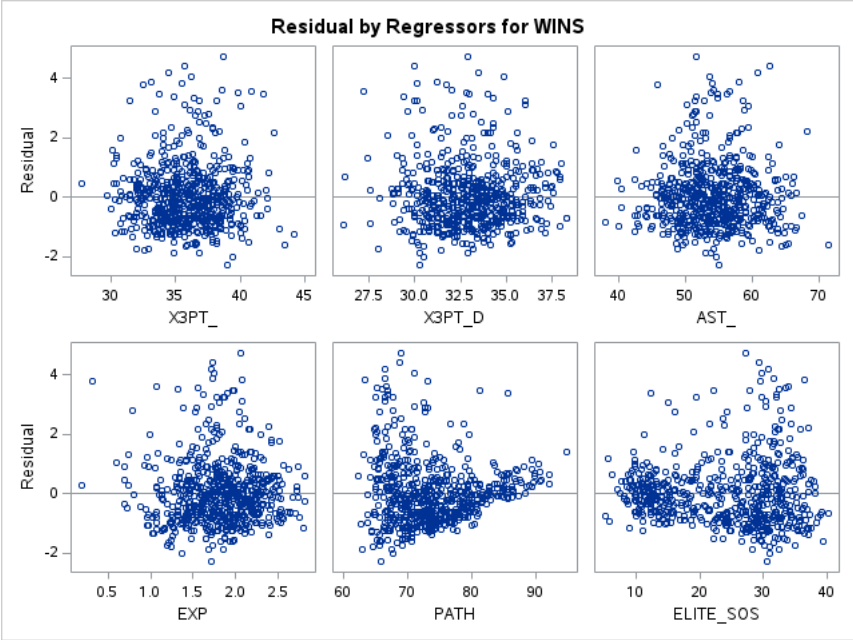
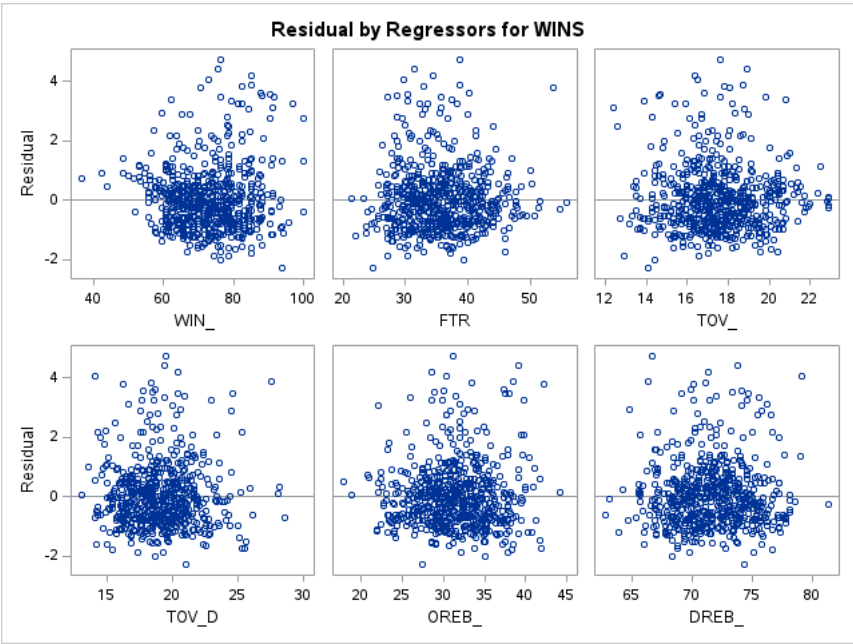
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

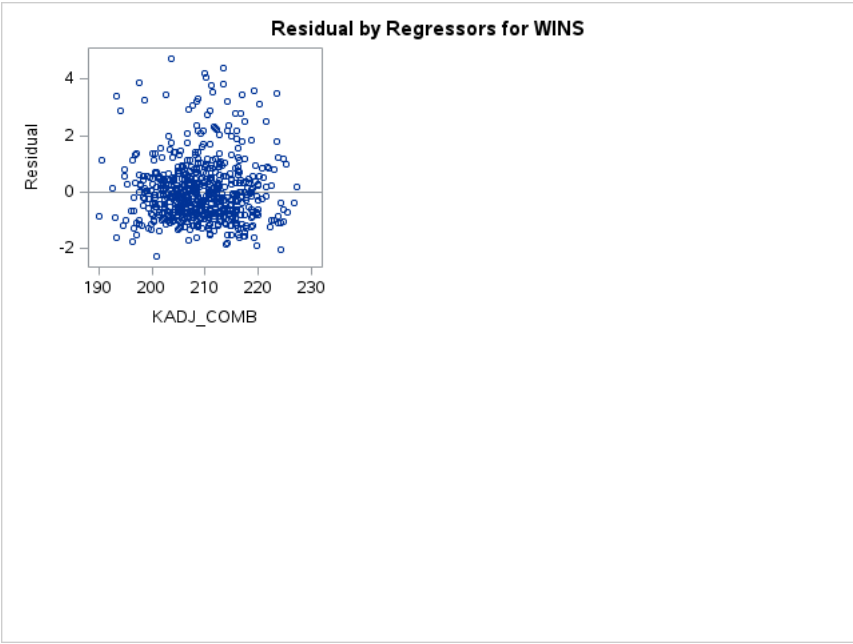
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.24736	1.41805	-0.88	0.3794
WIN_	1	0.03058	0.00318	9.61	<.0001
FTR	1	-0.01775	0.00382	-4.65	<.0001
TOV_	1	-0.00095649	0.01309	-0.07	0.9418
TOV_D	1	0.05090	0.00945	5.39	<.0001
OREB_	1	0.00672	0.00601	1.12	0.2636
DREB_	1	-0.01615	0.00871	-1.85	0.0642
X3PT_	1	0.01284	0.00982	1.31	0.1915
X3PT_D	1	-0.03243	0.01120	-2.89	0.0039
AST_	1	-0.01198	0.00433	-2.77	0.0059
EXP	1	-0.24523	0.04862	-5.04	<.0001
PATH	1	-0.03528	0.00516	-6.83	<.0001
ELITE_SOS	1	0.03744	0.00376	9.96	<.0001
KADJ_COMB	1	0.01900	0.00436	4.36	<.0001

WEIGHTED LEAST SQUARES

The REG Procedure
Model: MODEL1
Dependent Variable: WINS







WEIGHTED LEAST SQUARES

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	WIN_	FTR	TOV_	TOV_D	OREB_	DREB_	X3PT_	X3PT_D	AST_	EXP	PATH	ELITE_SOS	KADJ_COMB
1	MODEL1	PARMS	WINS	0.91035	503.535	-1.24736	0.030579	-0.017748	-0.000956493	0.050897	.006723121	-0.016149	0.012839	-0.032431	-0.011980	-0.24523	-0.035280	0.037441	205

VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Adjusted R-Square Selection Method

Number of Observations Read	608
Number of Observations Used	608

Weight: WEIGHT_VAR

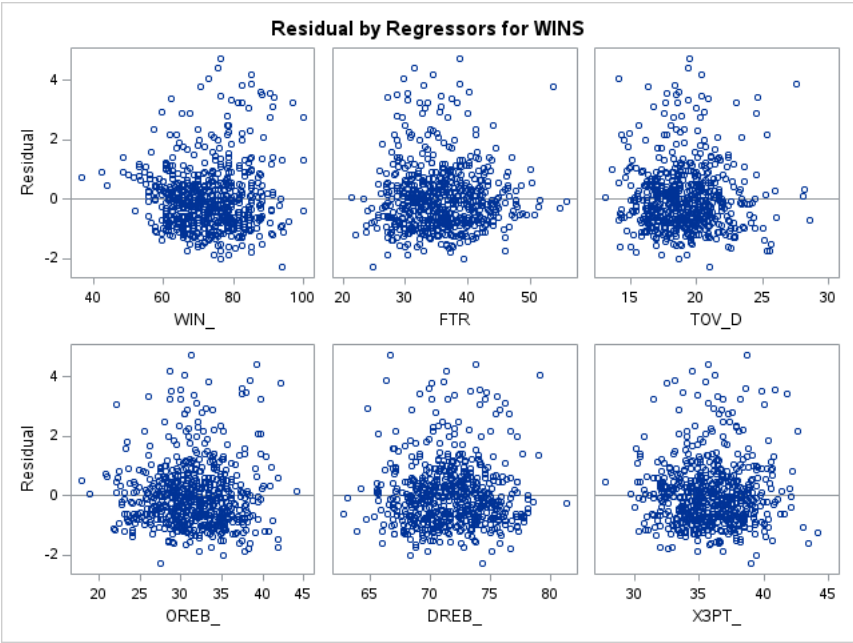
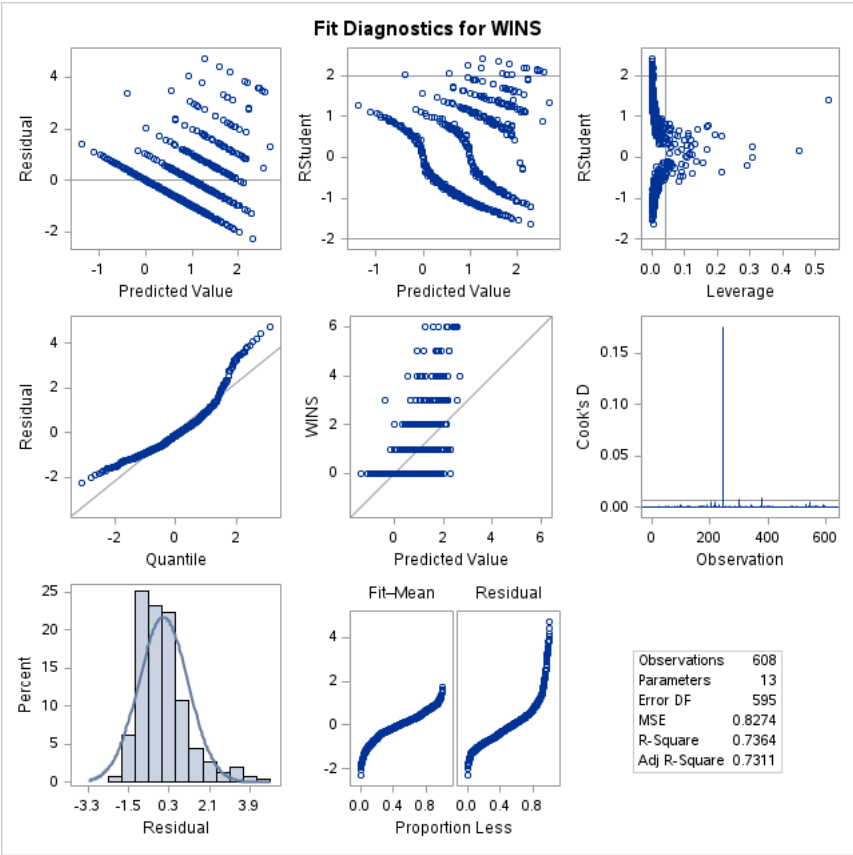
Number in Model	Adjusted R-Square	R-Square	Variables in Model
12	0.7311	0.7364	WIN_ FTR TOV_D OREB_ DREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7309	0.7358	WIN_ FTR TOV_D DREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7308	0.7352	WIN_ FTR TOV_D DREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7307	0.7356	WIN_ FTR TOV_D OREB_ DREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
13	0.7306	0.7364	WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7305	0.7358	WIN_ FTR TOV_ TOV_D DREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7305	0.7353	WIN_ FTR TOV_ TOV_D DREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7303	0.7356	WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7300	0.7349	WIN_ FTR TOV_D OREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7297	0.7342	WIN_ FTR TOV_D X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7297	0.7341	WIN_ FTR TOV_D OREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7297	0.7337	WIN_ FTR TOV_D X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7295	0.7349	WIN_ FTR TOV_ TOV_D OREB_ X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7294	0.7339	WIN_ FTR TOV_ TOV_D X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7294	0.7343	WIN_ FTR TOV_ TOV_D X3PT_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7293	0.7342	WIN_ FTR TOV_ TOV_D OREB_ X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7283	0.7323	WIN_ FTR TOV_D DREB_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7280	0.7325	WIN_ FTR TOV_D OREB_ DREB_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7280	0.7325	WIN_ FTR TOV_D DREB_ X3PT_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7279	0.7324	WIN_ FTR TOV_ TOV_D DREB_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7278	0.7327	WIN_ FTR TOV_D OREB_ DREB_ X3PT_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7277	0.7327	WIN_ FTR TOV_D OREB_ DREB_ X3PT_ AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7277	0.7327	WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
12	0.7276	0.7330	WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7276	0.7325	WIN_ FTR TOV_ TOV_D DREB_ X3PT_ X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7274	0.7319	WIN_ FTR TOV_D OREB_ DREB_ AST_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7273	0.7327	WIN_ FTR TOV_ TOV_D OREB_ DREB_ X3PT_ AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7273	0.7318	WIN_ FTR TOV_D DREB_ X3PT_ AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7272	0.7313	WIN_ FTR TOV_D DREB_ AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7271	0.7316	WIN_ FTR TOV_ TOV_D DREB_ AST_ EXP PATH ELITE_SOS KADJ_COMB

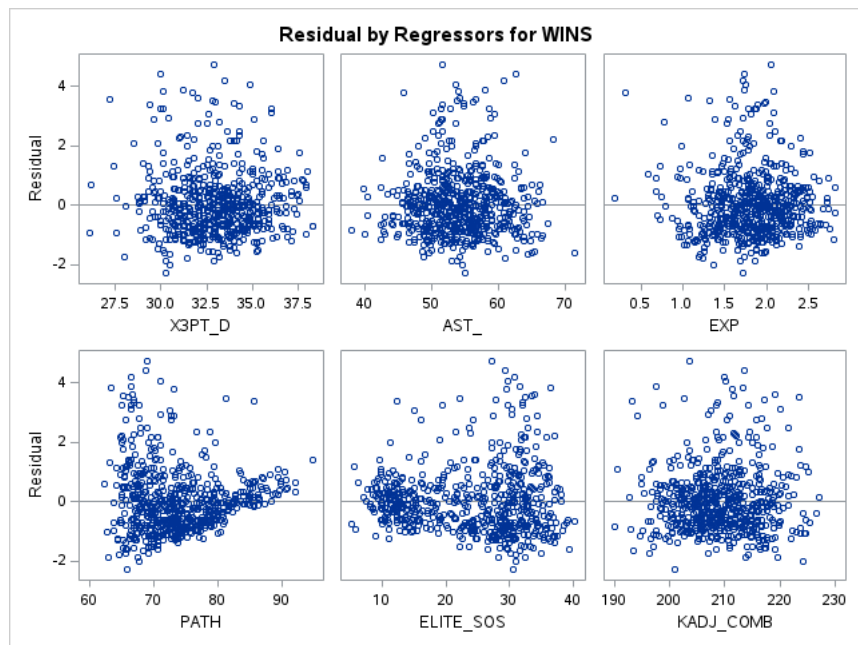
Number in Model	Adjusted R-Square	R-Square	Variables in Model
11	0.7271	0.7320	WIN_FTR TOV_ TOV_D OREB_DREB_AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7270	0.7320	WIN_FTR TOV_ TOV_D DREB_X3PT_AST_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7267	0.7303	WIN_FTR TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7265	0.7306	WIN_FTR TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7264	0.7304	WIN_FTR TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7263	0.7304	WIN_FTR TOV_ TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7262	0.7307	WIN_FTR TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7262	0.7307	WIN_FTR TOV_ TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7260	0.7310	WIN_FTR TOV_ TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7260	0.7305	WIN_FTR TOV_ TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7256	0.7302	WIN_FTR TOV_D OREB_X3PT_AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7254	0.7295	WIN_FTR TOV_D OREB_AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7252	0.7302	WIN_FTR TOV_ TOV_D OREB_X3PT_AST_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7251	0.7287	WIN_FTR TOV_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7251	0.7296	WIN_FTR TOV_ TOV_D OREB_AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7251	0.7291	WIN_FTR TOV_D X3PT_AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7250	0.7291	WIN_FTR TOV_ TOV_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7249	0.7294	WIN_FTR TOV_ TOV_D X3PT_AST_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7242	0.7279	WIN_FTR TOV_D DREB_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7242	0.7282	WIN_FTR TOV_D OREB_DREB_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7239	0.7280	WIN_FTR TOV_D DREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7238	0.7284	WIN_FTR TOV_D OREB_DREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7238	0.7283	WIN_FTR TOV_ TOV_D OREB_DREB_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7238	0.7279	WIN_FTR TOV_ TOV_D DREB_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7236	0.7286	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7234	0.7280	WIN_FTR TOV_ TOV_D DREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7225	0.7280	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS
9	0.7223	0.7264	WIN_TOV_D X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7221	0.7267	WIN_TOV_D DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7219	0.7265	WIN_TOV_ TOV_D X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7219	0.7269	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_AST_ EXP PATH ELITE_SOS
10	0.7219	0.7264	WIN_TOV_D OREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7217	0.7268	WIN_TOV_ TOV_D DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7216	0.7267	WIN_TOV_D OREB_DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7216	0.7267	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS
11	0.7215	0.7265	WIN_TOV_ TOV_D OREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7214	0.7260	WIN_FTR TOV_D OREB_DREB_X3PT_AST_ EXP PATH ELITE_SOS
7	0.7214	0.7246	WIN_FTR TOV_D EXP PATH ELITE_SOS KADJ_COMB
8	0.7213	0.7250	WIN_FTR TOV_D OREB_ EXP PATH ELITE_SOS KADJ_COMB
12	0.7213	0.7268	WIN_TOV_ TOV_D OREB_DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7210	0.7247	WIN_TOV_D X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7210	0.7260	WIN_FTR TOV_ TOV_D DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS
9	0.7210	0.7251	WIN_FTR TOV_ TOV_D OREB_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7210	0.7256	WIN_FTR TOV_D DREB_X3PT_X3PT_D AST_ EXP PATH ELITE_SOS
9	0.7210	0.7251	WIN_FTR TOV_D OREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7209	0.7246	WIN_FTR TOV_D X3PT_ EXP PATH ELITE_SOS KADJ_COMB
8	0.7209	0.7246	WIN_FTR TOV_ TOV_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7207	0.7248	WIN_TOV_D DREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7207	0.7253	WIN_FTR TOV_ TOV_D OREB_X3PT_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7206	0.7248	WIN_FTR TOV_D DREB_X3PT_AST_ EXP PATH ELITE_SOS
11	0.7206	0.7257	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
9	0.7206	0.7247	WIN_TOV_D OREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7205	0.7247	WIN_TOV_ TOV_D X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
9	0.7205	0.7246	WIN_FTR TOV_ TOV_D X3PT_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7204	0.7250	WIN_FTR TOV_ TOV_D DREB_X3PT_AST_ EXP PATH ELITE_SOS
10	0.7203	0.7249	WIN_TOV_D OREB_DREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7202	0.7248	WIN_TOV_ TOV_D DREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
10	0.7201	0.7247	WIN_TOV_ TOV_D OREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7198	0.7249	WIN_TOV_ TOV_D OREB_DREB_X3PT_D AST_ EXP PATH ELITE_SOS KADJ_COMB
11	0.7198	0.7248	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D AST_ PATH ELITE_SOS KADJ_COMB
10	0.7197	0.7243	WIN_TOV_ TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7196	0.7238	WIN_TOV_ TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	0.7196	0.7233	WIN_TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7196	0.7238	WIN_TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
12	0.7196	0.7251	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_X3PT_D AST_ PATH ELITE_SOS KADJ_COMB
11	0.7195	0.7246	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_D AST_ PATH ELITE_SOS KADJ_COMB
10	0.7195	0.7241	WIN_FTR TOV_ TOV_D OREB_DREB_X3PT_ EXP PATH ELITE_SOS
10	0.7195	0.7241	WIN_FTR TOV_D OREB_DREB_X3PT_D AST_ PATH ELITE_SOS KADJ_COMB
10	0.7194	0.7240	WIN_FTR TOV_ TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
11	0.7193	0.7243	WIN_TOV_ TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7192	0.7238	WIN_TOV_ TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
7	0.7192	0.7224	WIN_TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7191	0.7238	WIN_FTR TOV_ TOV_D DREB_X3PT_D AST_ PATH ELITE_SOS KADJ_COMB
10	0.7191	0.7238	WIN_TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB

Number in Model	Adjusted R-Square	R-Square	Variables in Model
9	0.7191	0.7233	WIN_TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	0.7190	0.7228	WIN_TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	0.7190	0.7227	WIN_TOV_TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7189	0.7231	WIN_TOV_TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7189	0.7240	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
8	0.7188	0.7225	WIN_TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7187	0.7234	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
9	0.7187	0.7229	WIN_TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	0.7187	0.7233	WIN_FTR TOV_D OREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	0.7186	0.7227	WIN_FTR TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
10	0.7186	0.7232	WIN_FTR TOV_TOV_D OREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	0.7185	0.7227	WIN_TOV_TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	0.7185	0.7236	WIN_FTR TOV_TOV_D OREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	0.7185	0.7226	WIN_FTR TOV_D OREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	0.7184	0.7231	WIN_TOV_TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	0.7184	0.7225	WIN_FTR TOV_TOV_D DREB_X3PT_EXP PATH ELITE_SOS
9	0.7183	0.7225	WIN_FTR TOV_D DREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	0.7182	0.7228	WIN_FTR TOV_D DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	0.7182	0.7224	WIN_FTR TOV_D OREB_DREB_X3PT_EXP PATH ELITE_SOS
9	0.7181	0.7223	WIN_FTR TOV_TOV_D X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	0.7181	0.7232	WIN_FTR OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7181	0.7227	WIN_FTR OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
8	0.7180	0.7217	WIN_FTR TOV_D DREB_X3PT_EXP PATH ELITE_SOS
12	0.7179	0.7235	WIN_FTR TOV_OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7178	0.7225	WIN_FTR TOV_TOV_D X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	0.7178	0.7229	WIN_FTR TOV_OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	0.7173	0.7215	WIN_FTR OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7173	0.7220	WIN_FTR OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
8	0.7172	0.7209	WIN_FTR TOV_D X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	0.7171	0.7217	WIN_FTR TOV_OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
9	0.7170	0.7212	WIN_FTR TOV_D X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	0.7170	0.7212	WIN_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	0.7169	0.7221	WIN_FTR TOV_OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7169	0.7216	WIN_FTR TOV_OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
11	0.7169	0.7220	WIN_FTR TOV_OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
9	0.7168	0.7210	WIN_FTR TOV_D OREB_DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
8	0.7167	0.7204	WIN_TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	0.7167	0.7209	WIN_FTR OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
10	0.7165	0.7212	WIN_TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7165	0.7212	WIN_TOV_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7165	0.7212	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D PATH ELITE_SOS KADJ_COMB
10	0.7165	0.7211	WIN_FTR TOV_TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS
10	0.7164	0.7210	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
9	0.7163	0.7205	WIN_TOV_D OREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
10	0.7163	0.7210	WIN_FTR OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
11	0.7162	0.7214	WIN_FTR TOV_TOV_D OREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
9	0.7162	0.7204	WIN_TOV_TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	0.7162	0.7213	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS
9	0.7162	0.7204	WIN_FTR TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS
8	0.7162	0.7199	WIN_FTR TOV_D DREB_AST_EXP PATH ELITE_SOS
11	0.7161	0.7213	WIN_TOV_TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
8	0.7161	0.7198	WIN_FTR TOV_D DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
9	0.7160	0.7203	WIN_FTR TOV_TOV_D DREB_AST_EXP PATH ELITE_SOS

VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

C(p) Selection Method

Number of Observations Read	608
Number of Observations Used	608

Weight: WEIGHT_VAR

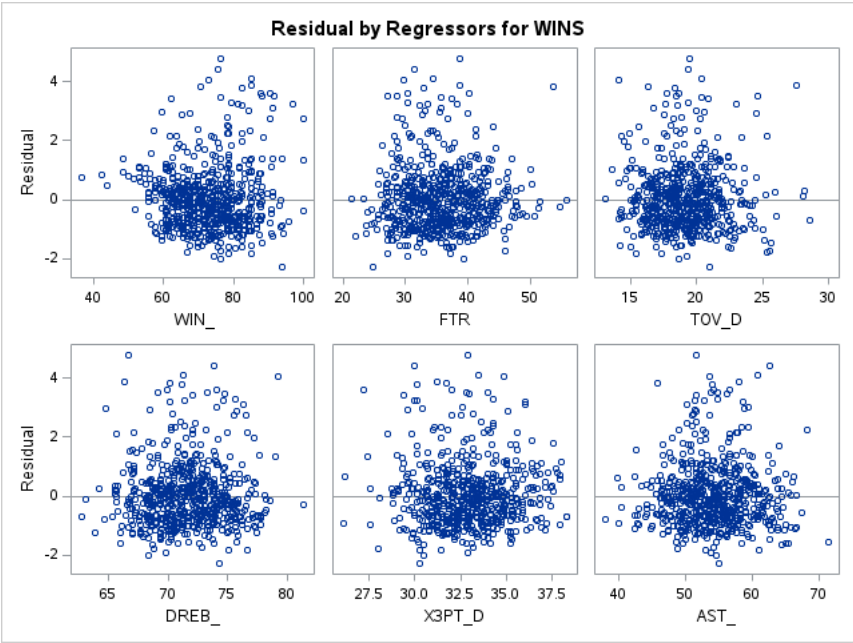
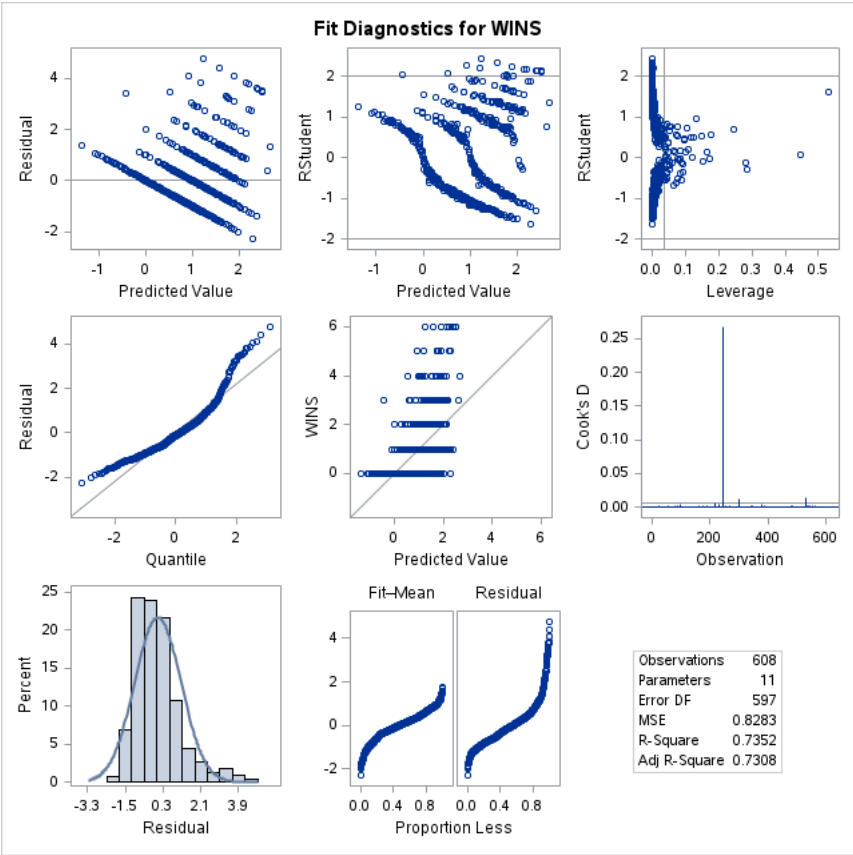
Number in Model	C(p)	R-Square	Variables in Model
10	10.6936	0.7352	WIN_FTR TOV_D DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	11.4125	0.7358	WIN_FTR TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	11.7711	0.7356	WIN_FTR TOV_D OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
12	12.0053	0.7364	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	12.1116	0.7337	WIN_FTR TOV_D X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	12.3663	0.7353	WIN_FTR TOV_TOV_D DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	12.9668	0.7342	WIN_FTR TOV_D X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	13.0710	0.7341	WIN_FTR TOV_D OREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
12	13.2523	0.7358	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	13.4376	0.7349	WIN_FTR TOV_D OREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	13.6765	0.7339	WIN_FTR TOV_TOV_D X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
12	13.7096	0.7356	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
13	14.0000	0.7364	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	14.7164	0.7343	WIN_FTR TOV_TOV_D X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	14.9698	0.7342	WIN_FTR TOV_TOV_D OREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	15.1675	0.7323	WIN_FTR TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
12	15.4375	0.7349	WIN_FTR TOV_TOV_D OREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	16.7095	0.7325	WIN_FTR TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	16.8552	0.7325	WIN_FTR TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	17.0980	0.7324	WIN_FTR TOV_TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	17.5064	0.7313	WIN_FTR TOV_D DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
8	17.6174	0.7303	WIN_FTR TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	18.0529	0.7319	WIN_FTR TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
11	18.2600	0.7327	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	18.3860	0.7327	WIN_FTR TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	18.4049	0.7327	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	18.4086	0.7318	WIN_FTR TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	18.7019	0.7325	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	18.8734	0.7316	WIN_FTR TOV_TOV_D DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
9	19.0955	0.7306	WIN_FTR TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	19.4197	0.7304	WIN_FTR TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	19.5628	0.7304	WIN_FTR TOV_TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
12	19.6472	0.7330	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	19.9012	0.7320	WIN_FTR TOV_TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
11	19.9961	0.7320	WIN_FTR TOV_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
12	20.3791	0.7327	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB

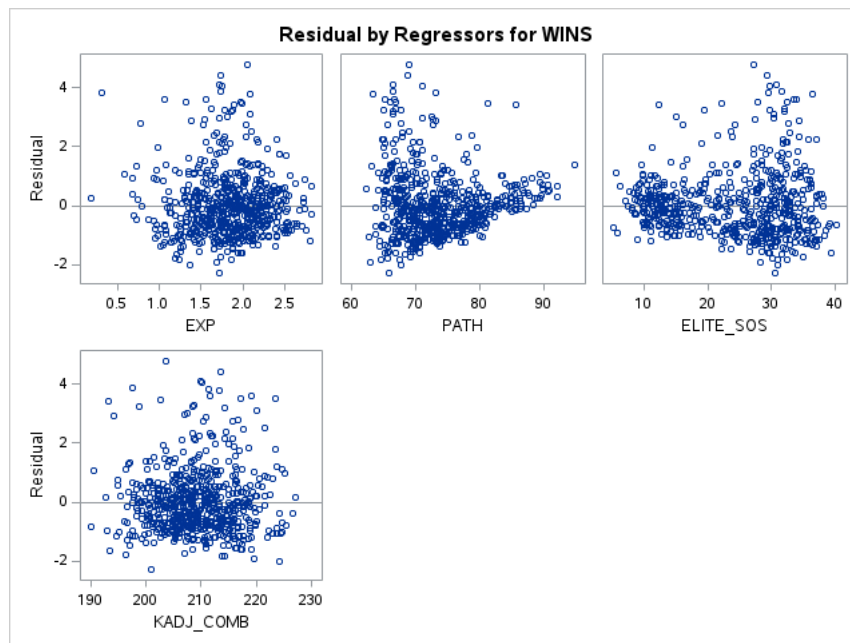
Number in Model	C(p)	R-Square	Variables in Model
10	20.7789	0.7307	WIN_FTR TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	20.8061	0.7307	WIN_FTR TOV_TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	21.2584	0.7287	WIN_FTR TOV_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	21.3071	0.7305	WIN_FTR TOV_TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	21.5203	0.7295	WIN_FTR TOV_D OREB_AST_EXP PATH ELITE_SOS KADJ_COMB
10	22.0330	0.7302	WIN_FTR TOV_D OREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	22.2391	0.7310	WIN_FTR TOV_TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	22.3475	0.7291	WIN_FTR TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	22.3716	0.7291	WIN_FTR TOV_TOV_D AST_EXP PATH ELITE_SOS KADJ_COMB
8	23.1975	0.7279	WIN_FTR TOV_D DREB_EXP PATH ELITE_SOS KADJ_COMB
10	23.2698	0.7296	WIN_FTR TOV_TOV_D OREB_AST_EXP PATH ELITE_SOS KADJ_COMB
10	23.6963	0.7294	WIN_FTR TOV_TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	23.9858	0.7302	WIN_FTR TOV_TOV_D OREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	24.3630	0.7282	WIN_FTR TOV_D OREB_DREB_EXP PATH ELITE_SOS KADJ_COMB
9	25.0210	0.7280	WIN_FTR TOV_D DREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
9	25.1855	0.7279	WIN_FTR TOV_TOV_D DREB_EXP PATH ELITE_SOS KADJ_COMB
10	26.0387	0.7284	WIN_FTR TOV_D OREB_DREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
10	26.1302	0.7283	WIN_FTR TOV_TOV_D OREB_DREB_EXP PATH ELITE_SOS KADJ_COMB
10	26.9801	0.7280	WIN_FTR TOV_TOV_D DREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
11	27.5783	0.7286	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
9	28.4492	0.7264	WIN_TOV_D X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
7	28.6518	0.7246	WIN_FTR TOV_D EXP PATH ELITE_SOS KADJ_COMB
8	29.6297	0.7250	WIN_FTR TOV_D OREB_EXP PATH ELITE_SOS KADJ_COMB
10	29.8826	0.7267	WIN_TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	30.3263	0.7265	WIN_TOV_TOV_D X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
8	30.3897	0.7247	WIN_TOV_D X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	30.4091	0.7264	WIN_TOV_D OREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
8	30.5901	0.7246	WIN_FTR TOV_D X3PT_EXP PATH ELITE_SOS KADJ_COMB
8	30.6497	0.7246	WIN_FTR TOV_TOV_D EXP PATH ELITE_SOS KADJ_COMB
12	31.0059	0.7280	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
11	31.3690	0.7269	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
9	31.4242	0.7251	WIN_FTR TOV_TOV_D OREB_EXP PATH ELITE_SOS KADJ_COMB
10	31.4510	0.7260	WIN_FTR TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
9	31.4591	0.7251	WIN_FTR TOV_D OREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
11	31.6979	0.7268	WIN_TOV_TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	31.8642	0.7267	WIN_TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	31.9371	0.7267	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
9	32.0566	0.7248	WIN_TOV_D DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	32.1506	0.7248	WIN_FTR TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS
11	32.1779	0.7265	WIN_TOV_TOV_D OREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	32.3220	0.7247	WIN_TOV_D OREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	32.3743	0.7247	WIN_TOV_TOV_D X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	32.4182	0.7256	WIN_FTR TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
9	32.5802	0.7246	WIN_FTR TOV_TOV_D X3PT_EXP PATH ELITE_SOS KADJ_COMB
10	33.0997	0.7253	WIN_FTR TOV_TOV_D OREB_X3PT_EXP PATH ELITE_SOS KADJ_COMB
11	33.3115	0.7260	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
7	33.4683	0.7224	WIN_TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	33.5238	0.7233	WIN_TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	33.5588	0.7250	WIN_FTR TOV_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS
12	33.5771	0.7268	WIN_TOV_TOV_D OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	33.9530	0.7249	WIN_TOV_D OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	34.0250	0.7248	WIN_TOV_TOV_D DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
11	34.1829	0.7257	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
10	34.3213	0.7247	WIN_TOV_TOV_D OREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	34.4364	0.7238	WIN_TOV_TOV_D X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	34.4861	0.7238	WIN_TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	34.7391	0.7228	WIN_TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	34.8551	0.7227	WIN_TOV_TOV_D X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	35.2361	0.7243	WIN_TOV_TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	35.2892	0.7225	WIN_TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	35.5040	0.7233	WIN_TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	35.6504	0.7241	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_EXP PATH ELITE_SOS
10	35.6617	0.7241	WIN_FTR TOV_D OREB_DREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	35.9493	0.7249	WIN_TOV_TOV_D OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	35.9590	0.7240	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
11	36.0432	0.7248	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	36.0559	0.7231	WIN_TOV_TOV_D DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	36.3117	0.7238	WIN_TOV_TOV_D OREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	36.4384	0.7238	WIN_FTR TOV_TOV_D DREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	36.4399	0.7238	WIN_TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
9	36.4836	0.7229	WIN_TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
11	36.5571	0.7246	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	36.7517	0.7227	WIN_FTR TOV_D DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
9	36.8381	0.7227	WIN_TOV_TOV_D OREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB

Number in Model	C(p)	R-Square	Variables in Model
9	37.0121	0.7226	WIN_FTR TOV_D OREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	37.1443	0.7243	WIN_TOV_TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
8	37.1484	0.7217	WIN_FTR TOV_D DREB_X3PT_EXP PATH ELITE_SOS
9	37.2375	0.7225	WIN_FTR TOV_TOV_D DREB_X3PT_EXP PATH ELITE_SOS
9	37.3190	0.7225	WIN_FTR TOV_D DREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	37.3629	0.7234	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D EXP PATH ELITE_SOS
12	37.4449	0.7251	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	37.5213	0.7233	WIN_FTR TOV_D OREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	37.6144	0.7224	WIN_FTR TOV_D OREB_DREB_X3PT_EXP PATH ELITE_SOS
9	37.7190	0.7223	WIN_FTR TOV_TOV_D X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	37.7557	0.7232	WIN_FTR TOV_TOV_D OREB_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	38.0075	0.7240	WIN_FTR TOV_TOV_D DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	38.0146	0.7231	WIN_TOV_TOV_D OREB_DREB_X3PT_D EXP PATH ELITE_SOS KADJ_COMB
10	38.5224	0.7228	WIN_FTR TOV_D DREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
11	38.7831	0.7236	WIN_FTR TOV_TOV_D OREB_X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	38.8595	0.7227	WIN_FTR OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
8	38.9128	0.7209	WIN_FTR TOV_D X3PT_D AST_PATH ELITE_SOS KADJ_COMB
10	39.3803	0.7225	WIN_FTR TOV_TOV_D X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	39.4755	0.7215	WIN_FTR OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
11	39.7202	0.7232	WIN_FTR OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
8	39.9763	0.7204	WIN_TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	40.2264	0.7212	WIN_FTR TOV_D X3PT_X3PT_D AST_PATH ELITE_SOS KADJ_COMB
9	40.3038	0.7212	WIN_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	40.3361	0.7229	WIN_FTR TOV_OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
10	40.4584	0.7220	WIN_FTR OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	40.6608	0.7210	WIN_FTR TOV_D OREB_DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
12	41.0066	0.7235	WIN_FTR TOV_OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	41.0097	0.7209	WIN_FTR OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
10	41.0359	0.7217	WIN_FTR TOV_OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS
8	41.0638	0.7199	WIN_FTR TOV_D DREB_AST_EXP PATH ELITE_SOS
8	41.3165	0.7198	WIN_FTR TOV_D DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
10	41.3600	0.7216	WIN_FTR TOV_OREB_DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
7	41.6290	0.7188	WIN_TOV_D AST_EXP PATH ELITE_SOS KADJ_COMB
9	41.7780	0.7205	WIN_TOV_D OREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	41.9713	0.7204	WIN_TOV_TOV_D X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
9	42.0087	0.7204	WIN_FTR TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS
10	42.1991	0.7212	WIN_TOV_D OREB_DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
7	42.2035	0.7186	WIN_FTR TOV_D DREB_EXP PATH ELITE_SOS
10	42.2566	0.7212	WIN_TOV_TOV_D DREB_X3PT_AST_EXP PATH ELITE_SOS KADJ_COMB
11	42.2642	0.7221	WIN_FTR TOV_OREB_DREB_X3PT_D AST_EXP PATH ELITE_SOS KADJ_COMB
10	42.2854	0.7212	WIN_FTR TOV_D OREB_DREB_X3PT_X3PT_D PATH ELITE_SOS KADJ_COMB
9	42.3711	0.7203	WIN_FTR TOV_TOV_D DREB_AST_EXP PATH ELITE_SOS
8	42.3791	0.7194	WIN_TOV_D DREB_AST_EXP PATH ELITE_SOS KADJ_COMB
11	42.3801	0.7220	WIN_FTR TOV_OREB_DREB_X3PT_X3PT_D AST_EXP PATH ELITE_SOS
10	42.3860	0.7211	WIN_FTR TOV_TOV_D OREB_DREB_AST_EXP PATH ELITE_SOS
9	42.6051	0.7201	WIN_FTR TOV_TOV_D DREB_X3PT_D PATH ELITE_SOS KADJ_COMB
10	42.6115	0.7210	WIN_FTR TOV_TOV_D OREB_DREB_X3PT_D PATH ELITE_SOS KADJ_COMB

VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

Forward Selection: Step 1

Variable PATH Entered: R-Square = 0.5664 and C(p) = 372.9884
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1057.77279	1057.77279	791.69	<.0001
Error	606	809.67194	1.33609		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	7.60884	0.24648	1273.19342	952.92	<.0001
PATH	-0.09144	0.00325	1057.77279	791.69	<.0001

Bounds on condition number: 1, 1

Forward Selection: Step 2

Variable WIN_ Entered: R-Square = 0.5989 and C(p) = 301.8546
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1118.38186	559.19093	451.65	<.0001
Error	605	749.06287	1.23812		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	5.48702	0.38506	251.41214	203.06	<.0001
WIN_	0.01904	0.00272	60.60907	48.95	<.0001
PATH	-0.08140	0.00344	692.52249	559.33	<.0001

Bounds on condition number: 1.2104, 4.8416

Forward Selection: Step 3

Variable ELITE_SOS Entered: R-Square = 0.6701 and C(p) = 143.3783
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1251.37541	417.12514	408.95	<.0001

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Error	604	616.06933	1.01998		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-0.26214	0.61290	0.18658	0.18	0.6690
WIN_	0.03235	0.00273	143.09589	140.29	<.0001
PATH	-0.03002	0.00548	30.64412	30.04	<.0001
ELITE_SOS	0.04330	0.00379	132.99354	130.39	<.0001

Bounds on condition number: 3.7212, 24.887

Forward Selection: Step 4

Variable DREB_ Entered: R-Square = 0.6895 and C(p) = 101.6855
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1287.58551	321.89638	334.74	<.0001
Error	603	579.85922	0.96162		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	2.91747	0.78907	13.14573	13.67	0.0002
WIN_	0.03501	0.00269	163.23248	169.75	<.0001
DREB_	-0.04216	0.00687	36.21011	37.66	<.0001
PATH	-0.03427	0.00536	39.25028	40.82	<.0001
ELITE_SOS	0.04116	0.00370	119.11386	123.87	<.0001

Bounds on condition number: 3.7841, 38.108

Forward Selection: Step 5

Variable FTR Entered: R-Square = 0.7001 and C(p) = 79.7326
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	1307.43632	261.48726	281.09	<.0001
Error	602	560.00841	0.93025		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.21599	0.82543	24.26814	26.09	<.0001
WIN_	0.03637	0.00266	173.98101	187.03	<.0001
FTR	-0.01696	0.00367	19.85081	21.34	<.0001
DREB_	-0.05134	0.00704	49.43080	53.14	<.0001
PATH	-0.03543	0.00528	41.87570	45.02	<.0001
ELITE_SOS	0.03894	0.00367	104.74129	112.60	<.0001

Bounds on condition number: 3.7928, 54.128

Forward Selection: Step 6

Variable EXP Entered: R-Square = 0.7140 and C(p) = 50.3639
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1333.43293	222.23882	250.12	<.0001
Error	601	534.01181	0.88854		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	5.03102	0.82067	33.39304	37.58	<.0001
WIN_	0.03706	0.00260	180.23541	202.84	<.0001
FTR	-0.02069	0.00365	28.50847	32.08	<.0001
DREB_	-0.05156	0.00688	49.84591	56.10	<.0001
EXP	-0.26062	0.04818	25.99661	29.26	<.0001
PATH	-0.03770	0.00518	47.09995	53.01	<.0001
ELITE_SOS	0.03622	0.00362	88.89280	100.04	<.0001

Bounds on condition number: 3.8178, 72.133

Forward Selection: Step 7

Variable TOV_D Entered: R-Square = 0.7186 and C(p) = 42.2035
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1341.85322	191.69332	218.83	<.0001
Error	600	525.59151	0.87599		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	3.75765	0.91250	14.85454	16.96	<.0001
WIN_	0.03494	0.00267	149.71158	170.91	<.0001
FTR	-0.02127	0.00363	30.03602	34.29	<.0001
TOV_D	0.02393	0.00772	8.42029	9.61	0.0020
DREB_	-0.03827	0.00807	19.70175	22.49	<.0001
EXP	-0.27837	0.04818	29.24031	33.38	<.0001
PATH	-0.03677	0.00515	44.64947	50.97	<.0001
ELITE_SOS	0.03622	0.00360	88.91984	101.51	<.0001

Bounds on condition number: 3.8309, 98.916

Forward Selection: Step 8

Variable KADJ_COMB Entered: R-Square = 0.7279 and C(p) = 23.1975
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1359.26181	169.90773	200.27	<.0001
Error	599	508.18292	0.84839		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-0.82216	1.35226	0.31361	0.37	0.5434
WIN_	0.03296	0.00267	129.62756	152.79	<.0001
FTR	-0.01800	0.00365	20.68039	24.38	<.0001
TOV_D	0.04186	0.00856	20.26189	23.88	<.0001
DREB_	-0.02323	0.00861	6.17770	7.28	0.0072
EXP	-0.25769	0.04764	24.82642	29.26	<.0001
PATH	-0.03660	0.00507	44.23028	52.13	<.0001
ELITE_SOS	0.03689	0.00354	92.05914	108.51	<.0001
KADJ_COMB	0.01495	0.00330	17.40859	20.52	<.0001

Bounds on condition number: 3.8311, 130.4

Forward Selection: Step 9

Variable X3PT_D Entered: R-Square = 0.7323 and C(p) = 15.1675
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	1367.57413	151.95268	181.78	<.0001
Error	598	499.87061	0.83590		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-0.98197	1.34323	0.44674	0.53	0.4650
WIN_	0.02956	0.00286	89.42285	106.98	<.0001
FTR	-0.01683	0.00364	17.87736	21.39	<.0001
TOV_D	0.05184	0.00907	27.29281	32.65	<.0001
DREB_	-0.01825	0.00869	3.68784	4.41	0.0361
X3PT_D	-0.03521	0.01116	8.31232	9.94	0.0017
EXP	-0.25012	0.04735	23.32829	27.91	<.0001
PATH	-0.03748	0.00504	46.23961	55.32	<.0001
ELITE_SOS	0.03556	0.00354	84.32464	100.88	<.0001
KADJ_COMB	0.02003	0.00365	25.16190	30.10	<.0001

Bounds on condition number: 3.8429, 168.83

Forward Selection: Step 10

Variable AST_ Entered: R-Square = 0.7352 and C(p) = 10.6936
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	1372.93931	137.29393	165.75	<.0001
Error	597	494.50542	0.82832		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.28657	1.34247	0.76077	0.92	0.3383
WIN_	0.03150	0.00295	94.74438	114.38	<.0001
FTR	-0.01757	0.00363	19.36191	23.37	<.0001
TOV_D	0.05387	0.00907	29.25237	35.32	<.0001
DREB_	-0.01607	0.00869	2.83265	3.42	0.0649
X3PT_D	-0.03309	0.01114	7.30352	8.82	0.0031
AST_	-0.01032	0.00405	5.36518	6.48	0.0112
EXP	-0.25227	0.04714	23.72307	28.64	<.0001
PATH	-0.03557	0.00507	40.73964	49.18	<.0001
ELITE_SOS	0.03776	0.00363	89.68600	108.27	<.0001
KADJ_COMB	0.02147	0.00368	28.23201	34.08	<.0001

Bounds on condition number: 3.9287, 205.13

Forward Selection: Step 11

Variable X3PT_ Entered: R-Square = 0.7358 and C(p) = 11.4125
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	1374.00104	124.90919	150.87	<.0001
Error	596	493.44369	0.82793		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.16142	1.34669	0.61579	0.74	0.3888
WIN_	0.03089	0.00299	88.09621	106.41	<.0001
FTR	-0.01676	0.00370	16.96450	20.49	<.0001
TOV_D	0.05372	0.00906	29.07475	35.12	<.0001
DREB_	-0.01640	0.00869	2.94566	3.56	0.0597
X3PT_	0.01061	0.00937	1.06173	1.28	0.2579
X3PT_D	-0.03345	0.01115	7.45546	9.00	0.0028
AST_	-0.01132	0.00415	6.16809	7.45	0.0065
EXP	-0.25464	0.04717	24.12466	29.14	<.0001
PATH	-0.03546	0.00507	40.46215	48.87	<.0001
ELITE_SOS	0.03820	0.00365	90.74757	109.61	<.0001
KADJ_COMB	0.01951	0.00406	19.06582	23.03	<.0001

Bounds on condition number: 3.9303, 250.97

Forward Selection: Step 12

Variable OREB_ Entered: R-Square = 0.7364 and C(p) = 12.0053
Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	1375.16718	114.59727	138.51	<.0001
Error	595	492.27755	0.82736		
Corrected Total	607	1867.44474			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.27886	1.34986	0.74261	0.90	0.3438
WIN_	0.03066	0.00300	86.43444	104.47	<.0001
FTR	-0.01778	0.00380	18.11536	21.90	<.0001
TOV_D	0.05099	0.00935	24.62596	29.76	<.0001
OREB_	0.00655	0.00552	1.16614	1.41	0.2356
DREB_	-0.01612	0.00869	2.84448	3.44	0.0642
X3PT_	0.01267	0.00952	1.46337	1.77	0.1840
X3PT_D	-0.03239	0.01118	6.94540	8.39	0.0039
AST_	-0.01206	0.00419	6.84101	8.27	0.0042
EXP	-0.24464	0.04790	21.57867	26.08	<.0001
PATH	-0.03535	0.00507	40.20688	48.60	<.0001
ELITE_SOS	0.03749	0.00370	85.09640	102.85	<.0001
KADJ_COMB	0.01911	0.00408	18.17582	21.97	<.0001

Bounds on condition number: 3.9315, 298.02

No other variable met the 0.5000 significance level for entry into the model.

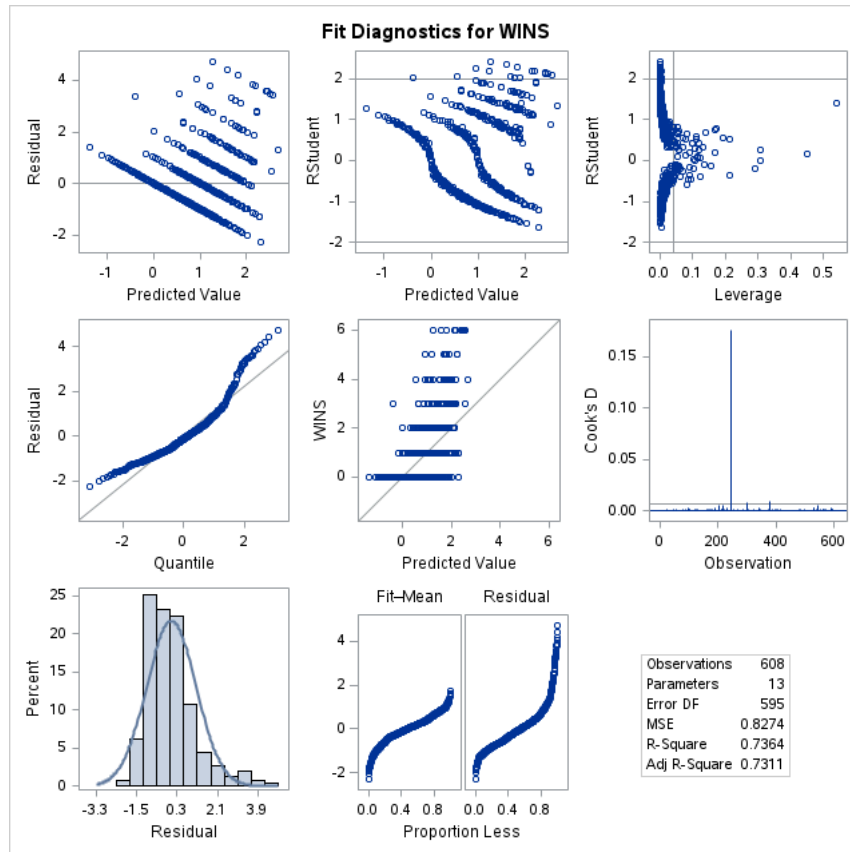
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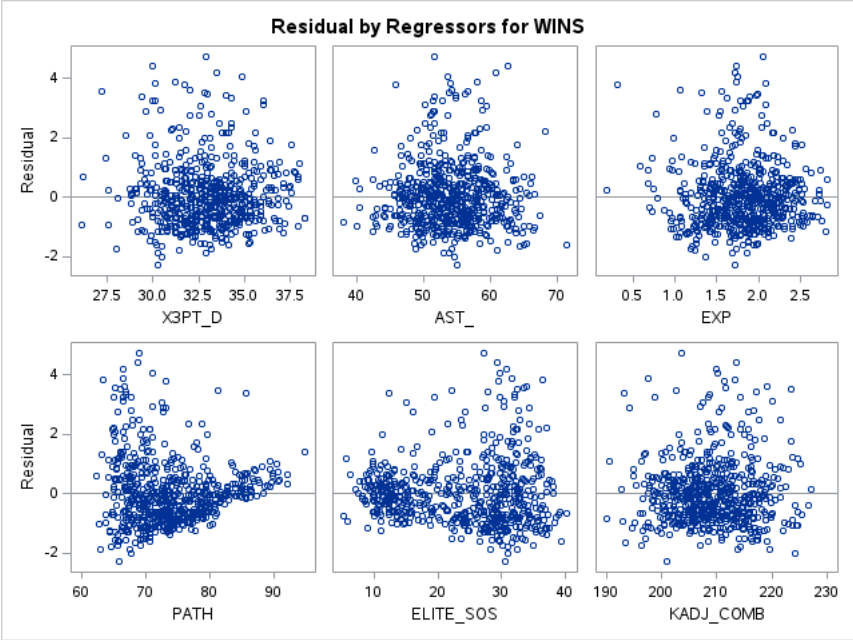
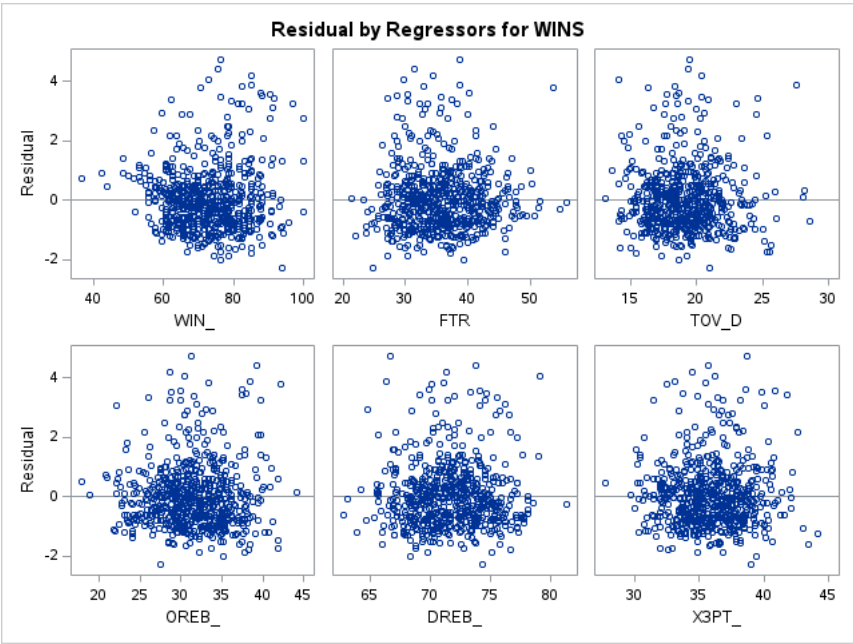
Summary of Forward Selection							
Step	Variable Entered	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	PATH	1	0.5664	0.5664	372.988	791.69	<.0001
2	WIN_	2	0.0325	0.5989	301.855	48.95	<.0001
3	ELITE_SOS	3	0.0712	0.6701	143.378	130.39	<.0001

Summary of Forward Selection							
Step	Variable Entered	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
4	DREB_	4	0.0194	0.6895	101.686	37.66	<.0001
5	FTR_	5	0.0106	0.7001	79.7326	21.34	<.0001
6	EXP_	6	0.0139	0.7140	50.3639	29.26	<.0001
7	TOV_D	7	0.0045	0.7186	42.2035	9.61	0.0020
8	KADJ_COMB	8	0.0093	0.7279	23.1975	20.52	<.0001
9	X3PT_D	9	0.0045	0.7323	15.1675	9.94	0.0017
10	AST_	10	0.0029	0.7352	10.6936	6.48	0.0112
11	X3PT_	11	0.0006	0.7358	11.4125	1.28	0.2579
12	OREB_	12	0.0006	0.7364	12.0053	1.41	0.2356

VARIABLE SELECTION

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





BEST MODEL

The REG Procedure
Model: MODEL1
Dependent Variable: WINS

Number of Observations Read	608
Number of Observations Used	608

Weight: WEIGHT_VAR

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	1372.93931	137.29393	165.75	<.0001
Error	597	494.50542	0.82832		
Corrected Total	607	1867.44474			

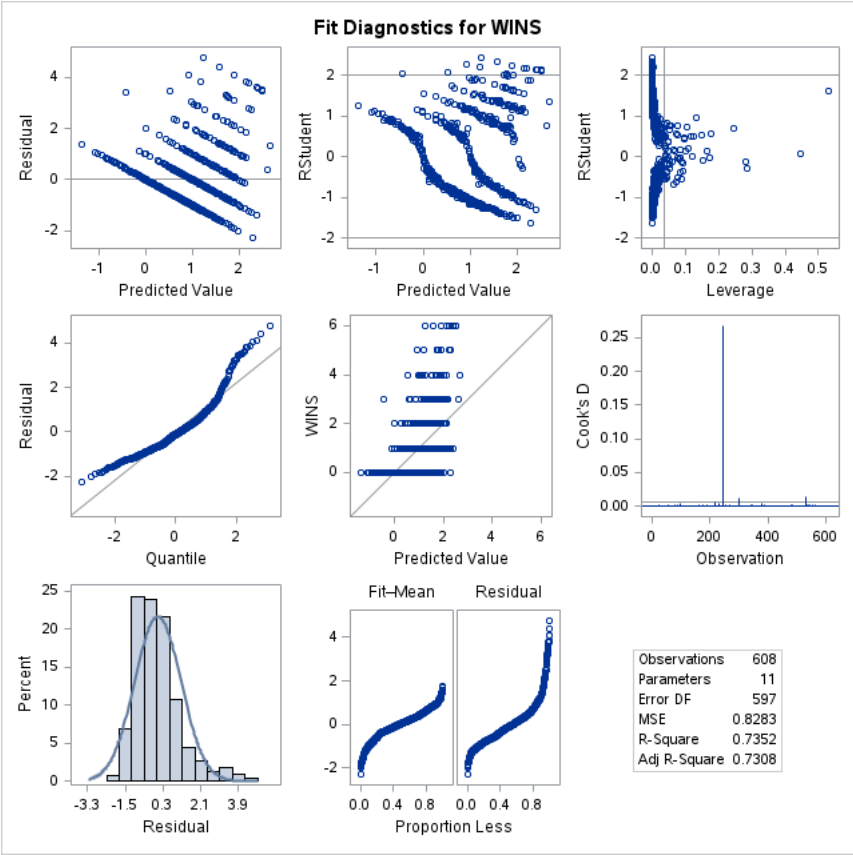
Root MSE	0.91012	R-Square	0.7352
Dependent Mean	0.70191	Adj R-Sq	0.7308
Coeff Var	129.66385		

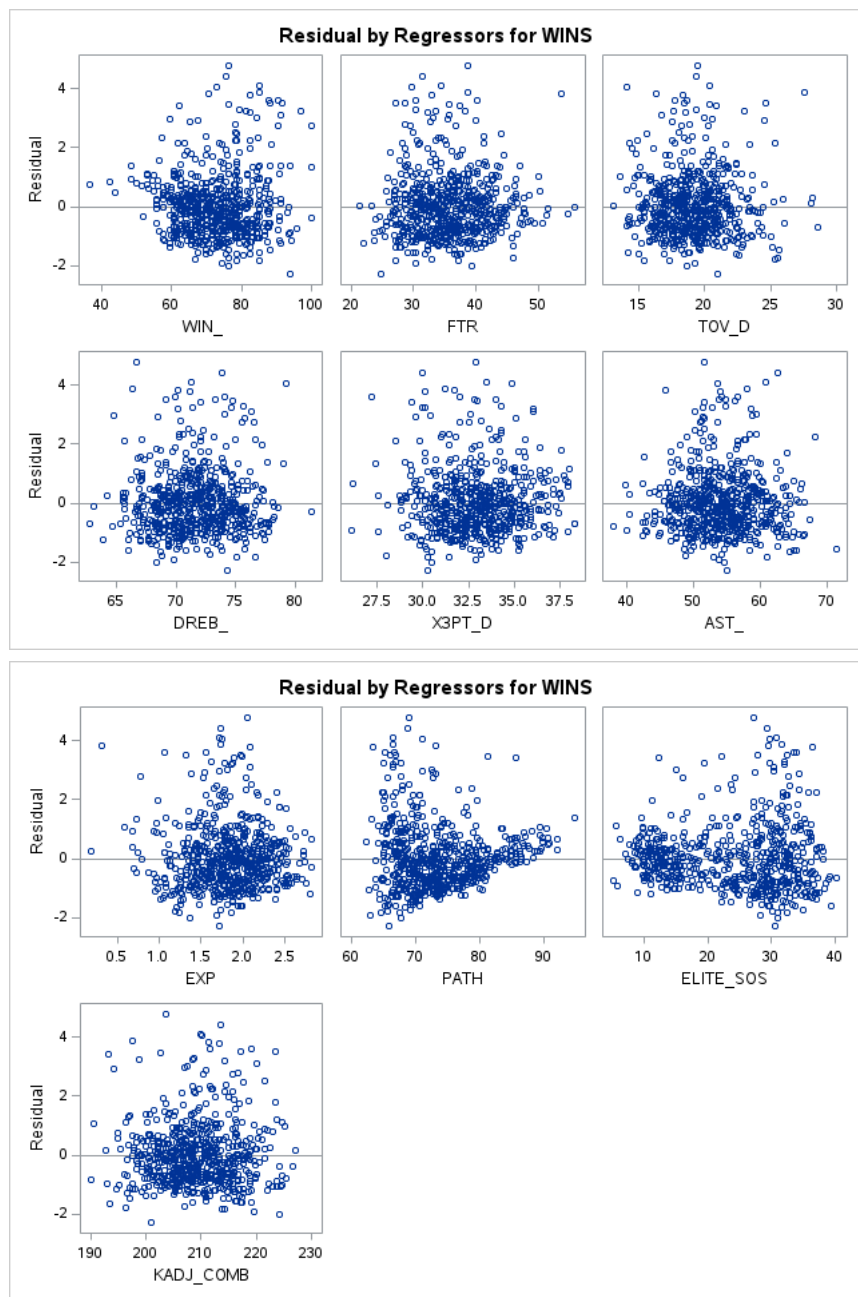
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.28657	1.34247	-0.96	0.3383
WIN_	1	0.03150	0.00295	10.69	<.0001
FTR	1	-0.01757	0.00363	-4.83	<.0001
TOV_D	1	0.05387	0.00907	5.94	<.0001
DREB_	1	-0.01607	0.00869	-1.85	0.0649
X3PT_D	1	-0.03309	0.01114	-2.97	0.0031
AST_	1	-0.01032	0.00405	-2.55	0.0112
EXP	1	-0.25227	0.04714	-5.35	<.0001
PATH	1	-0.03557	0.00507	-7.01	<.0001
ELITE_SOS	1	0.03776	0.00363	10.41	<.0001
KADJ_COMB	1	0.02147	0.00368	5.84	<.0001

BEST MODEL

The REG Procedure
Model: MODEL1
Dependent Variable: WINS





BEST MODEL

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	WIN_	FTR	TOV_D	DREB_	X3PT_D	AST_	EXP	PATH	ELITE_SOS	KADJ_COMB	WINS	_IN_	_P_	_E
1	MODEL1	PARMS	WINS	0.91012	504.810	-1.28657	0.031499	-0.017568	0.053874	-0.016071	-0.033092	-0.010315	-0.25227	-0.035570	0.037760	0.021469	-1	10	11	

PREDICTIONS FOR NEW OBSERVATIONS

Obs	WINS	PREDICTED_WINS	LOWER_PI	UPPER_PI
1	0	-0.05642	-1.77933	1.66648
2	1	1.01203	-0.71088	2.73494
3	1	1.13290	-0.59000	2.85581
4	1	0.56471	-1.15820	2.28761
5	4	1.90286	0.17995	3.62576
6	0	1.00783	-0.71507	2.73074
7	0	-0.21138	-1.93429	1.51152
8	4	0.90663	-0.81627	2.62954
9	0	0.62549	-1.09741	2.34840
10	1	0.51171	-1.21120	2.23461
11	0	0.97290	-0.75001	2.69581
12	1	-0.22159	-1.94449	1.50132
13	2	1.51525	-0.20765	3.23816

Obs	WINS	PREDICTED_WINS	LOWER_PI	UPPER_PI
14	2	1.43550	-0.28740	3.15841
15	0	-0.03408	-1.75698	1.68883
16	0	1.52277	-0.20014	3.24567
17	6	1.89132	0.16841	3.61422
18	2	1.73359	0.01069	3.45650
19	3	1.52829	-0.19461	3.25120
20	1	1.11462	-0.60828	2.83753
21	1	1.18227	-0.54063	2.90518
22	1	0.78836	-0.93455	2.51126
23	1	1.25698	-0.46593	2.97988
24	1	0.88280	-0.84010	2.60571
25	0	1.33111	-0.39180	3.05402
26	0	0.27065	-1.45226	1.99356
27	0	-0.08401	-1.80692	1.63889
28	0	1.16672	-0.55619	2.88963
29	1	0.58903	-1.13387	2.31194
30	0	0.26783	-1.45508	1.99073
31	5	1.28327	-0.43964	3.00617
32	2	2.30337	0.58046	4.02628