

The CONTENTS Procedure

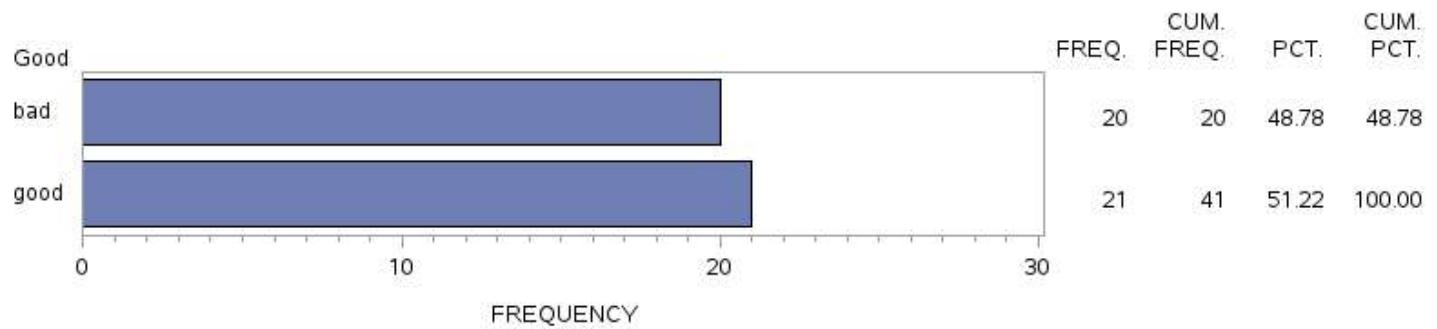
Data Set Name	WORK.WARDATA2	Observations	41
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	05/25/2021 16:16:18	Observation Length	32
Last Modified	05/25/2021 16:16:18	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	4078
Obs in First Data Page	41
Number of Data Set Repairs	0
Filename	/saswork/SAS_work1D740001FF5C_odaws04-usw2.oda.sas.com/SAS_work88BA0001FF5C_odaws04-usw2.oda.sas.com/wardata2.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	1610635361
Access Permission	rw-r--r--
Owner Name	u57042395
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
5	Good	Char	4	\$4.	\$4.
2	KD	Num	8	BEST12.	BEST32.
3	Wins	Num	8	BEST12.	BEST32.
1	Work	Char	3	\$3.	\$3.
4	hours	Num	8	BEST12.	BEST32.

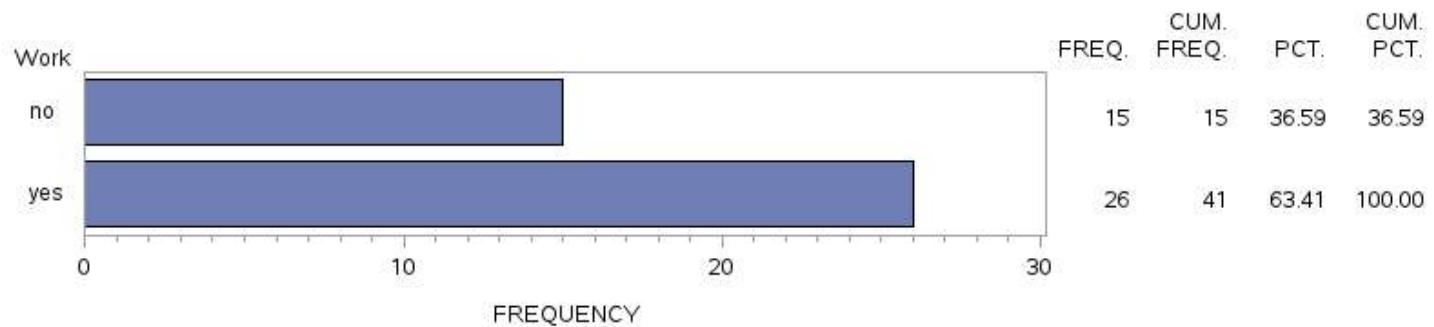
The FREQ Procedure

player quality				
Good	Frequency	Percent	Cumulative Frequency	Cumulative Percent
bad	20	48.78	20	48.78
good	21	51.22	41	100.00



The FREQ Procedure

full time employment status				
Work	Frequency	Percent	Cumulative Frequency	Cumulative Percent
no	15	36.59	15	36.59
yes	26	63.41	41	100.00



Histogram of wins run

The UNIVARIATE Procedure
Variable: KD

Moments			
N	41	Sum Weights	41
Mean	1.26365854	Sum Observations	51.81
Std Deviation	0.52544151	Variance	0.27608878
Skewness	1.24894697	Kurtosis	1.95325178
Uncorrected SS	76.5137	Corrected SS	11.0435512
Coeff Variation	41.5809726	Std Error Mean	0.08206018

Basic Statistical Measures			
Location		Variability	
Mean	1.263659	Std Deviation	0.52544
Median	1.140000	Variance	0.27609
Mode	0.970000	Range	2.59000
		Interquartile Range	0.52000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.39917	Pr > t	<.0001

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Sign	M	20.5	Pr >= M	<.0001
Signed Rank	S	430.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.98
99%	2.98
95%	2.18
90%	1.98
75% Q3	1.49
50% Median	1.14
25% Q1	0.97
10%	0.80
5%	0.57
1%	0.39
0% Min	0.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.39	16	1.98	6
0.55	14	2.18	19
0.57	9	2.18	39
0.78	5	2.40	25
0.80	29	2.98	7

Histogram of wins run

The UNIVARIATE Procedure
Variable: Wins

Moments			
N	41	Sum Weights	41
Mean	80.1463415	Sum Observations	3286
Std Deviation	105.706093	Variance	11173.778
Skewness	3.21055701	Kurtosis	11.2971317
Uncorrected SS	710312	Corrected SS	446951.122
Coeff Variation	131.891351	Std Error Mean	16.5085182

Basic Statistical Measures			
Location		Variability	
Mean	80.14634	Std Deviation	105.70609
Median	55.00000	Variance	11174
Mode	14.00000	Range	515.00000
		Interquartile Range	84.00000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.854848	Pr > t	<.0001
Sign	M	20	Pr >= M	<.0001
Signed Rank	S	410	Pr >= S	<.0001

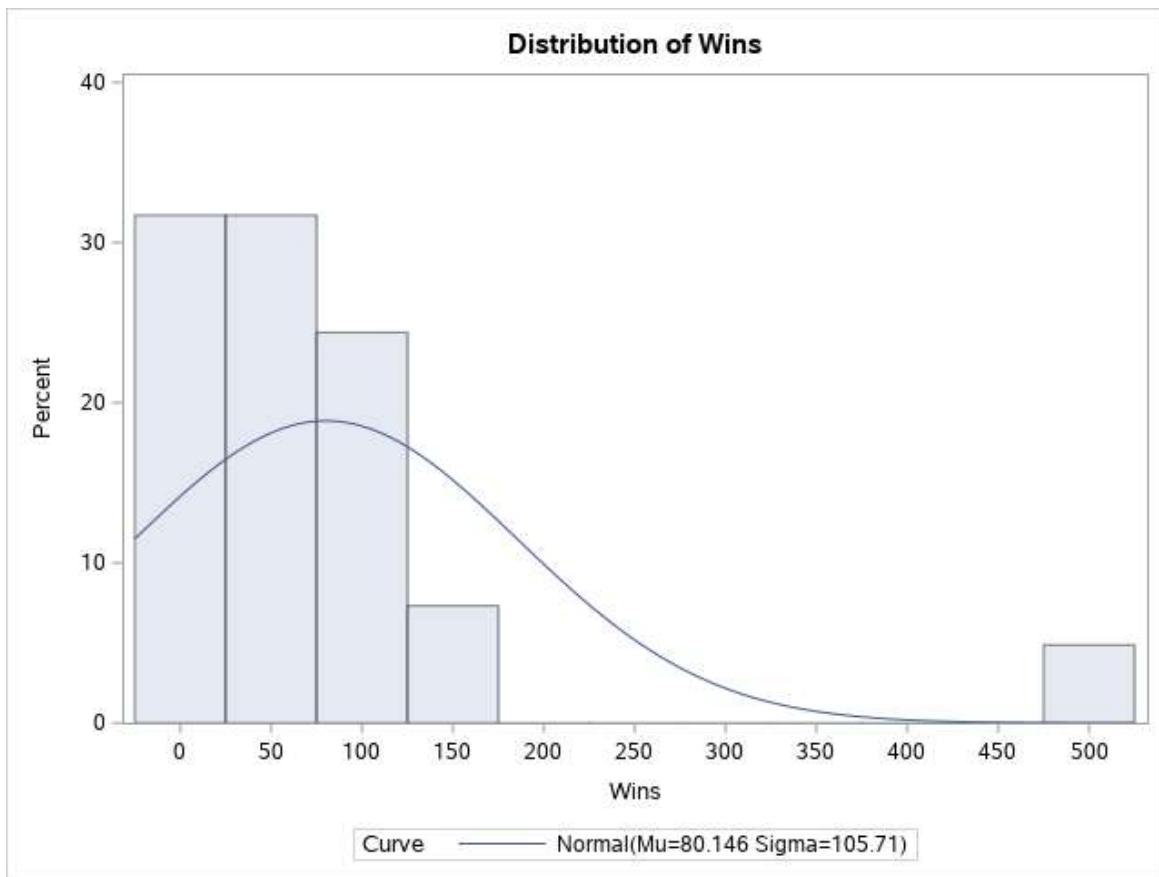
Quantiles (Definition 5)

Quantiles (Definition)	Quantile
100% Max	515
Level 99%	515
95%	165
90%	134
75% Q3	104
50% Median	55
25% Q1	20
10%	12
5%	9
1%	0
0% Min	0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	9	134	20
5	11	135	38
9	14	165	26
11	28	483	39
12	16	515	25

Histogram of wins run

The UNIVARIATE Procedure

**Histogram of wins run**The UNIVARIATE Procedure
Fitted Normal Distribution for Wins

Parameters for Normal Distribution

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Std Dev	Sigma	105.7061

Goodness-of-Fit Tests for Normal Distribution				
Test		Statistic	p Value	
Kolmogorov-Smirnov	D	0.22873538	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.73962573	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	4.58686319	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.000	-165.76280
5.0	9.000	-93.72471
10.0	12.000	-55.32147
25.0	20.000	8.84867
50.0	55.000	80.14634
75.0	104.000	151.44402
90.0	134.000	215.61415
95.0	165.000	254.01739
99.0	515.000	326.05549

Histogram of wins run

The UNIVARIATE Procedure
Variable: hours

Moments			
N	41	Sum Weights	41
Mean	19.0300244	Sum Observations	780.231
Std Deviation	13.6746919	Variance	186.9972
Skewness	1.25460871	Kurtosis	1.16503869
Uncorrected SS	22327.7029	Corrected SS	7479.88798
Coeff Variation	71.8585098	Std Error Mean	2.13562808

Basic Statistical Measures			
Location		Variability	
Mean	19.03002	Std Deviation	13.67469
Median	16.00000	Variance	186.99720
Mode	6.00000	Range	56.00000
		Interquartile Range	15.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	8.910739	Pr > t	<.0001
Sign	M	20.5	Pr >= M	<.0001
Signed Rank	S	430.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	59.000
99%	59.000
95%	48.527

Quantiles (Definition 5)	
Level	Quantile
90%	40.000
75% Q3	23.000
50% Median	16.000
25% Q1	8.000
10%	6.000
5%	4.500
1%	3.000
0% Min	3.000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.0	27	40.000	34
4.5	11	44.300	37
4.5	7	48.527	40
5.0	16	50.004	39
6.0	17	59.000	36

Histogram of wins run

The UNIVARIATE Procedure
Variable: hours

Moments			
N	41	Sum Weights	41
Mean	19.0300244	Sum Observations	780.231
Std Deviation	13.6746919	Variance	186.9972
Skewness	1.25460871	Kurtosis	1.16503869
Uncorrected SS	22327.7029	Corrected SS	7479.88798
Coeff Variation	71.8585098	Std Error Mean	2.13562808

Basic Statistical Measures			
Location		Variability	
Mean	19.03002	Std Deviation	13.67469
Median	16.00000	Variance	186.99720
Mode	6.00000	Range	56.00000
		Interquartile Range	15.00000

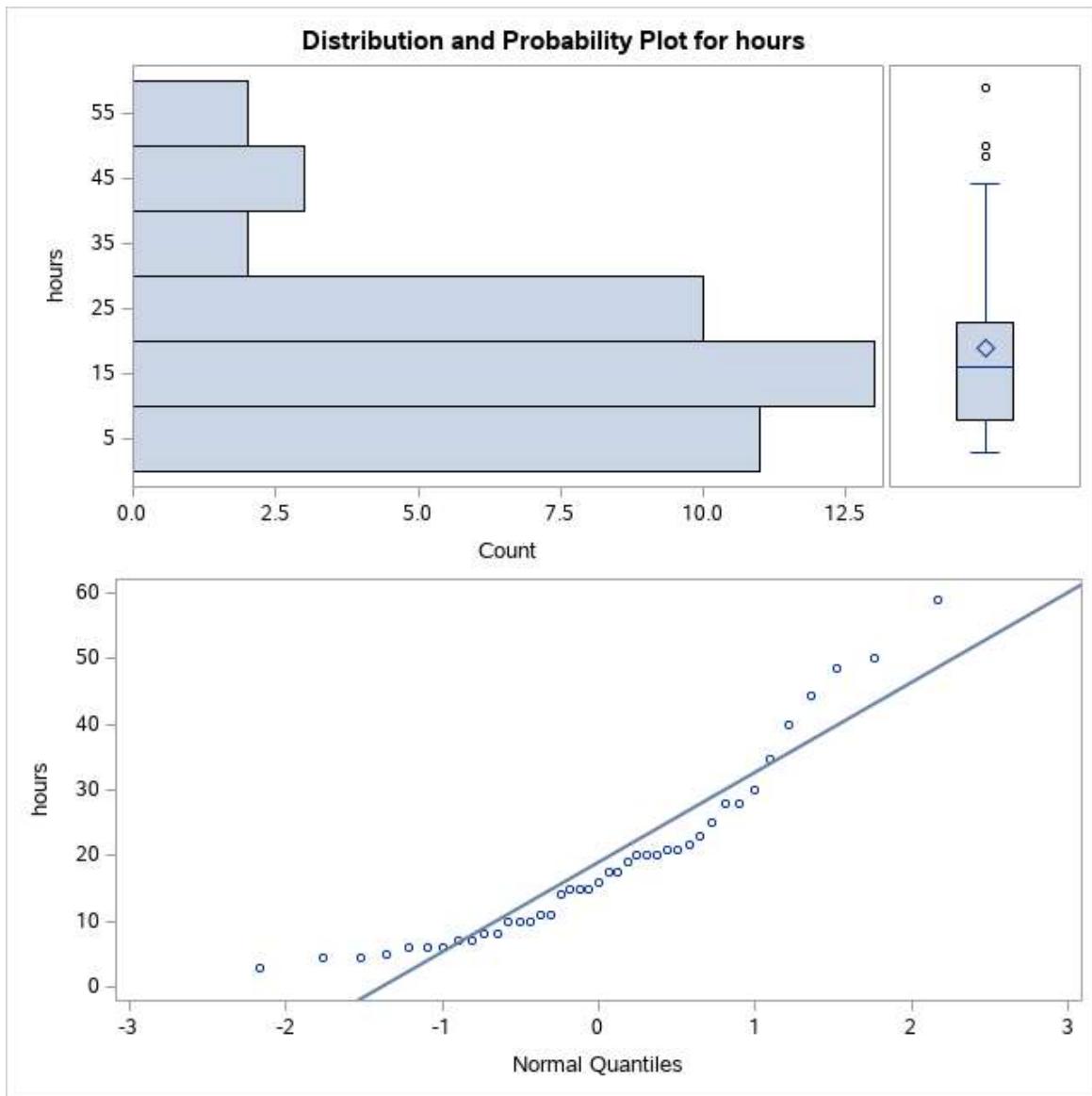
Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.910739	Pr > t	<.0001
Sign	M	20.5	Pr >= M	<.0001
Signed Rank	S	430.5	Pr >= S	<.0001

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Level	Quantile
100% Max	59.000
99%	59.000
95%	48.527
90%	40.000
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Level	Quantile
10%	6.000
5%	4.500
1%	3.000
0% Min	3.000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.0	27	40.000	34
4.5	11	44.300	37
4.5	7	48.527	40
5.0	16	50.004	39
6.0	17	59.000	36



Moments			
N	41	Sum Weights	41
Mean	1.26365854	Sum Observations	51.81
Std Deviation	0.52544151	Variance	0.27608878
Skewness	1.24894697	Kurtosis	1.95325178
Uncorrected SS	76.5137	Corrected SS	11.0435512
Coeff Variation	41.5809726	Std Error Mean	0.08206018

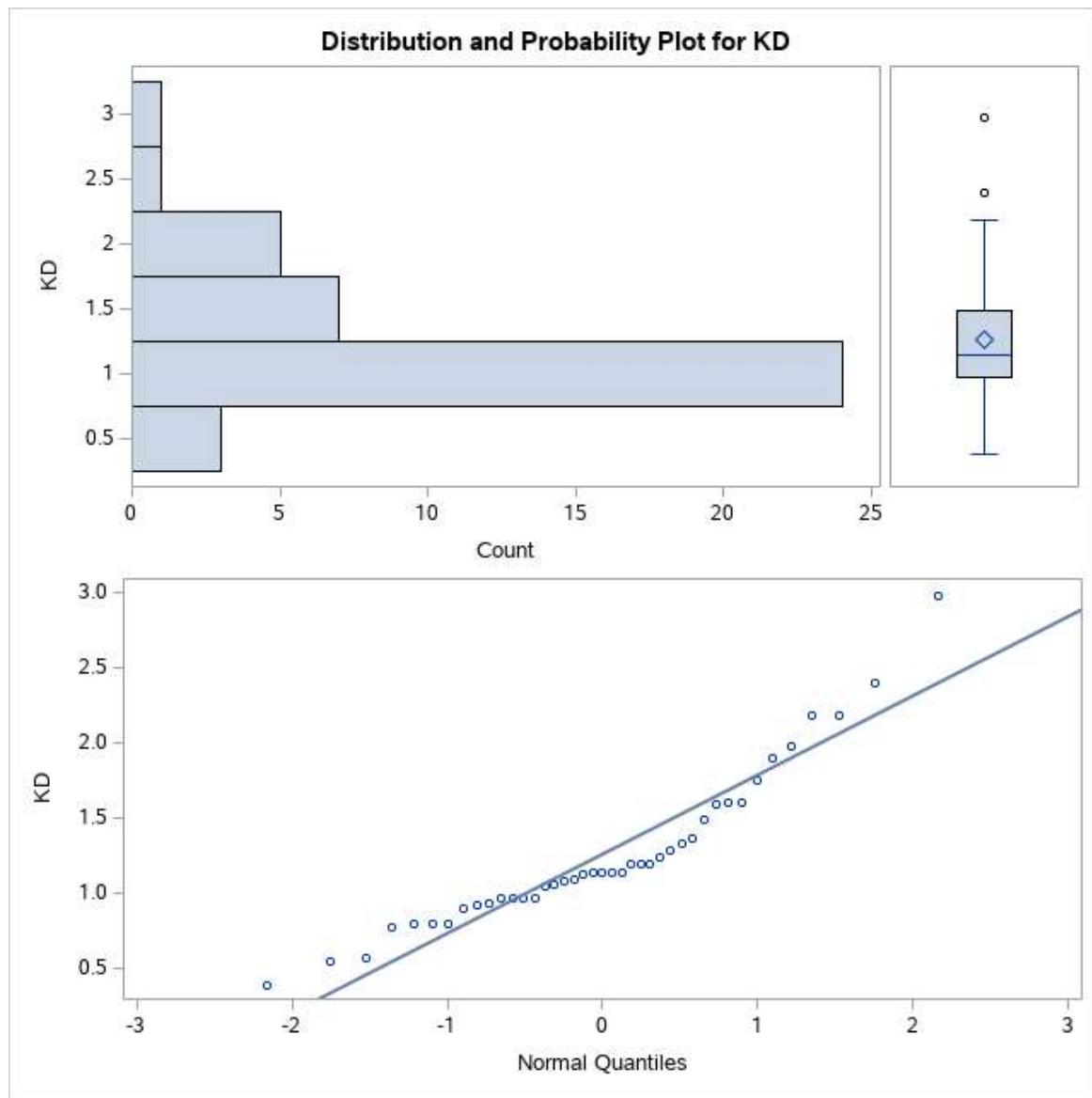
Basic Statistical Measures			
Location		Variability	
Mean	1.263659	Std Deviation	0.52544
Median	1.140000	Variance	0.27609
Mode	0.970000	Range	2.59000
		Interquartile Range	0.52000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.39917	Pr > t 	<.0001
Sign	M	20.5	Pr >= M 	<.0001
Signed Rank	S	430.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.98
99%	2.98
95%	2.18
90%	1.98
75% Q3	1.49
50% Median	1.14
25% Q1	0.97
10%	0.80
5%	0.57
1%	0.39
0% Min	0.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.39	16	1.98	6
0.55	14	2.18	19
0.57	9	2.18	39
0.78	5	2.40	25
0.80	29	2.98	7



Summary stats grouped by employment status

The MEANS Procedure

Work=no

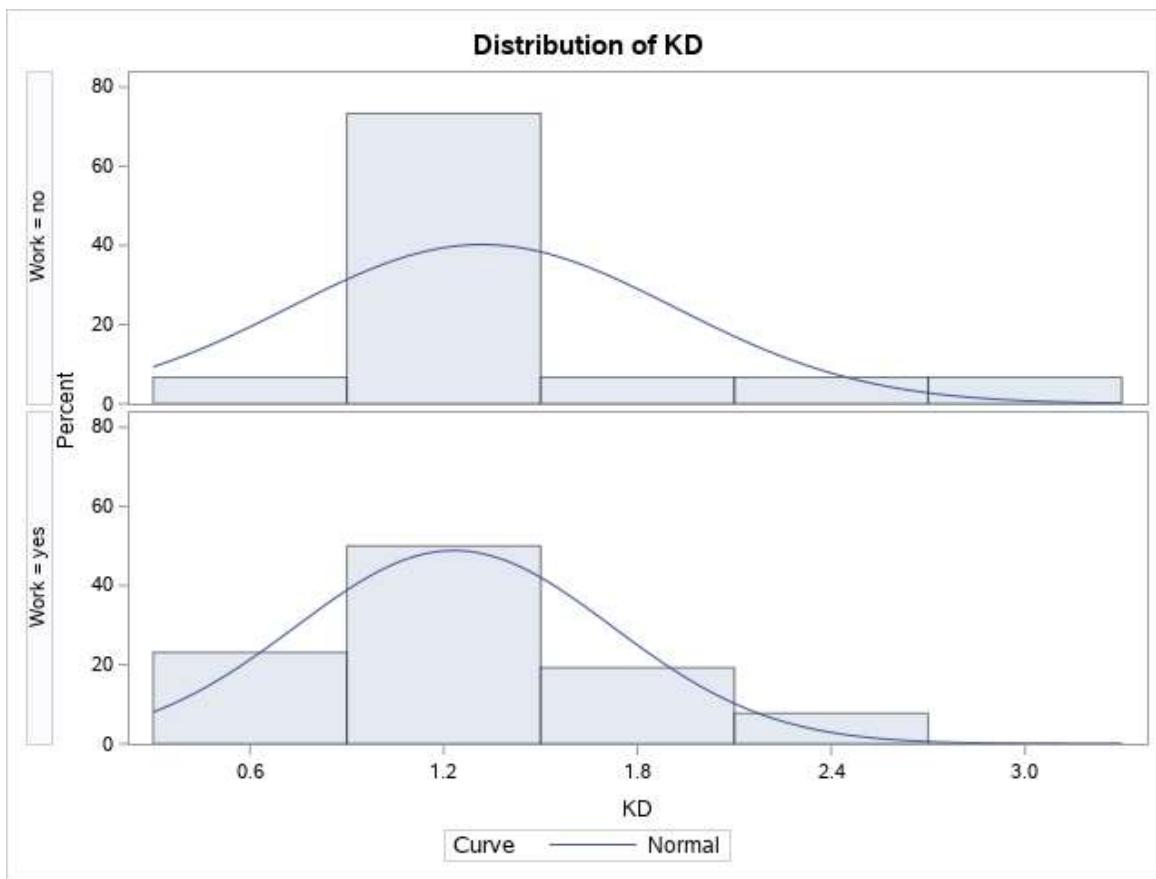
Variable	N	Mean	Std Dev	Minimum	Maximum
Wins	15	93.2666667	115.4361089	12.0000000	483.0000000
hours	15	28.1154000	17.2229440	4.5000000	59.0000000
KD	15	1.3186667	0.5954694	0.3900000	2.9800000

Work=yes

Variable	N	Mean	Std Dev	Minimum	Maximum
Wins	26	72.5769231	101.2565743	0	515.0000000
hours	26	13.7884615	7.4150834	3.0000000	30.0000000
KD	26	1.2319231	0.4902164	0.5500000	2.4000000

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
 Work = no
 Fitted Normal Distribution for KD

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	1.318667
Std Dev	Sigma	0.595469

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.26565113	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.24651109	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.27655997	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.39000	-0.06660
5.0	0.39000	0.33921
10.0	0.90000	0.55554
25.0	1.08000	0.91703
50.0	1.14000	1.31867
75.0	1.37000	1.72030
90.0	2.18000	2.08179
95.0	2.98000	2.29813
99.0	2.98000	2.70394

Histograms run

The UNIVARIATE Procedure
Work = yes
Fitted Normal Distribution for KD

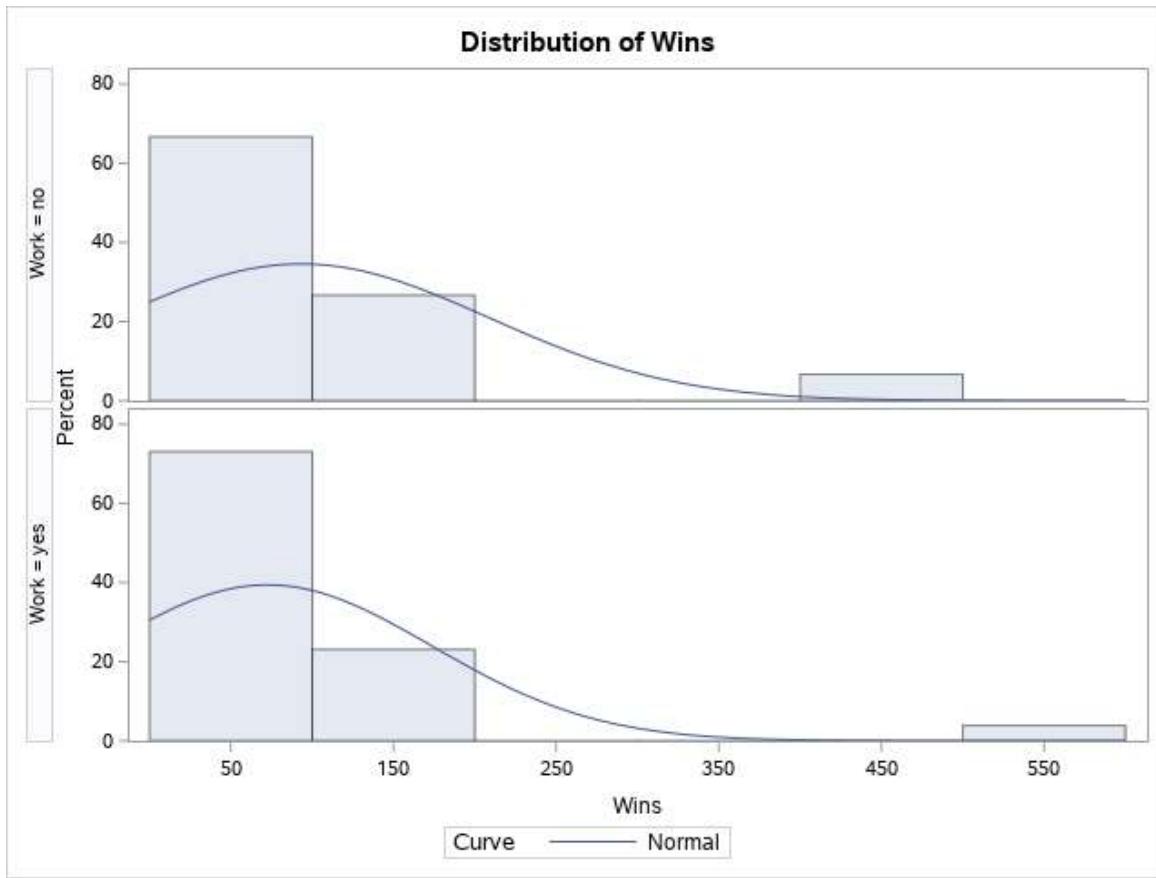
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	1.231923
Std Dev	Sigma	0.490216

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.18573492	Pr > D	0.021
Cramer-von Mises	W-Sq	0.15459568	Pr > W-Sq	0.020
Anderson-Darling	A-Sq	0.83069573	Pr > A-Sq	0.028

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.55000	0.09151
5.0	0.57000	0.42559
10.0	0.78000	0.60369
25.0	0.93000	0.90128
50.0	1.08000	1.23192
75.0	1.59000	1.56257
90.0	1.98000	1.86016
95.0	2.18000	2.03826
99.0	2.40000	2.37234

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
Work = no
Fitted Normal Distribution for Wins

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	93.26667
Std Dev	Sigma	115.4361

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.29218589	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.31623164	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.90845194	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	12.0000	-175.2779
5.0	12.0000	-96.6088
10.0	14.0000	-54.6707
25.0	25.0000	15.4062
50.0	58.0000	93.2667
75.0	119.0000	171.1271
90.0	135.0000	241.2040
95.0	483.0000	283.1422
99.0	483.0000	361.8112

Histograms run

The UNIVARIATE Procedure
 Work = yes
 Fitted Normal Distribution for Wins

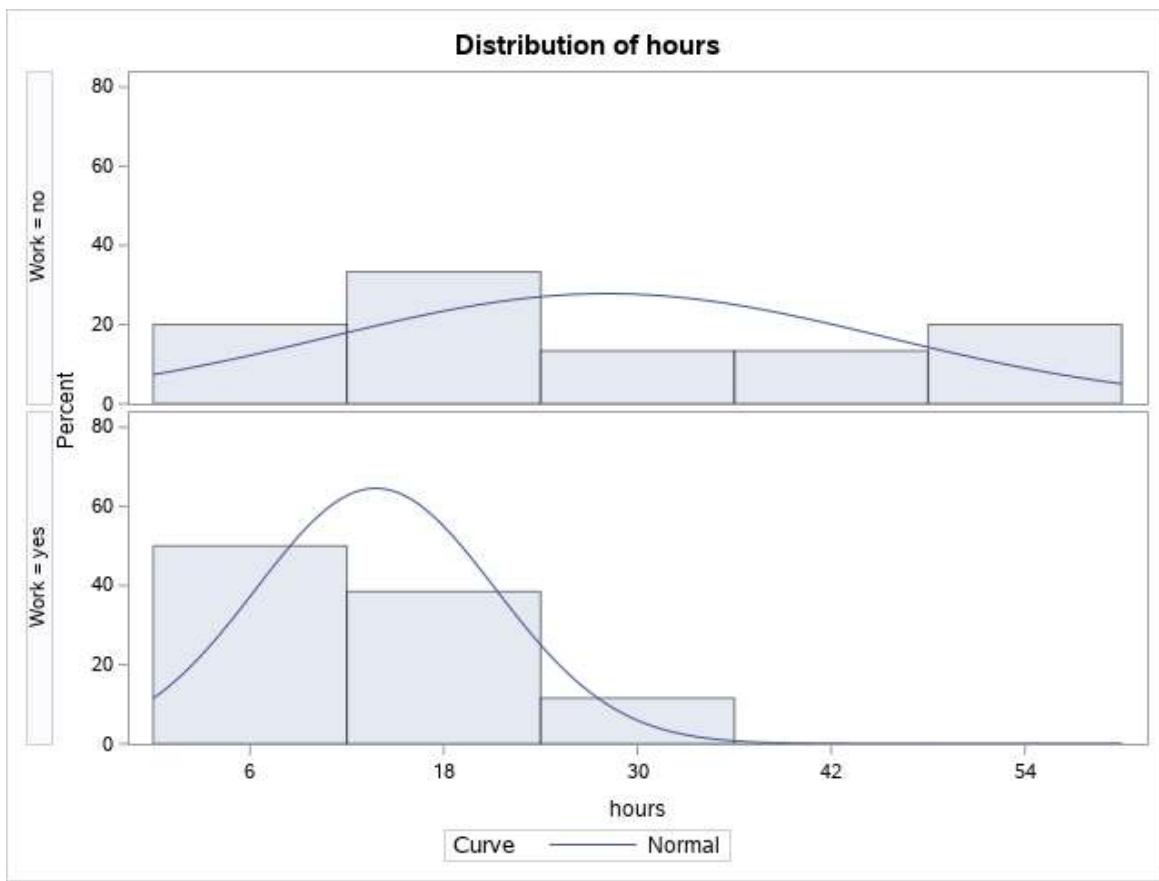
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	72.57692
Std Dev	Sigma	101.2566

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.23676030	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.46220663	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	2.83600084	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.000	-162.98109
5.0	5.000	-93.97532
10.0	9.000	-57.18860
25.0	19.000	4.28040
50.0	41.500	72.57692
75.0	102.000	140.87344
90.0	134.000	202.34244
95.0	165.000	239.12917
99.0	515.000	308.13494

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
Work = no
Fitted Normal Distribution for hours

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	28.1154
Std Dev	Sigma	17.22294

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.17177171	Pr > D	>0.150
Cramer-von Mises	W-Sq	0.06616018	Pr > W-Sq	>0.250
Anderson-Darling	A-Sq	0.38860985	Pr > A-Sq	>0.250

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	4.50000	-11.95116
5.0	4.50000	-0.21382
10.0	5.00000	6.04331
25.0	19.00000	16.49870
50.0	23.00000	28.11540
75.0	44.30000	39.73210
90.0	50.00400	50.18749
95.0	59.00000	56.44462
99.0	59.00000	68.18196

Histograms run

The UNIVARIATE Procedure
Work = yes
Fitted Normal Distribution for hours

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	13.78846
Std Dev	Sigma	7.415083

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.14656111	Pr > D	>0.150
Cramer-von Mises	W-Sq	0.07662309	Pr > W-Sq	0.226
Anderson-Darling	A-Sq	0.55636008	Pr > A-Sq	0.141

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	3.00000	-3.46160
5.0	4.50000	1.59173
10.0	6.00000	4.28565
25.0	8.00000	8.78706
50.0	12.50000	13.78846
75.0	17.50000	18.78986
90.0	28.00000	23.29127
95.0	28.00000	25.98519
99.0	30.00000	31.03852

Summary stats grouped by player quality

The MEANS Procedure

Good=bad

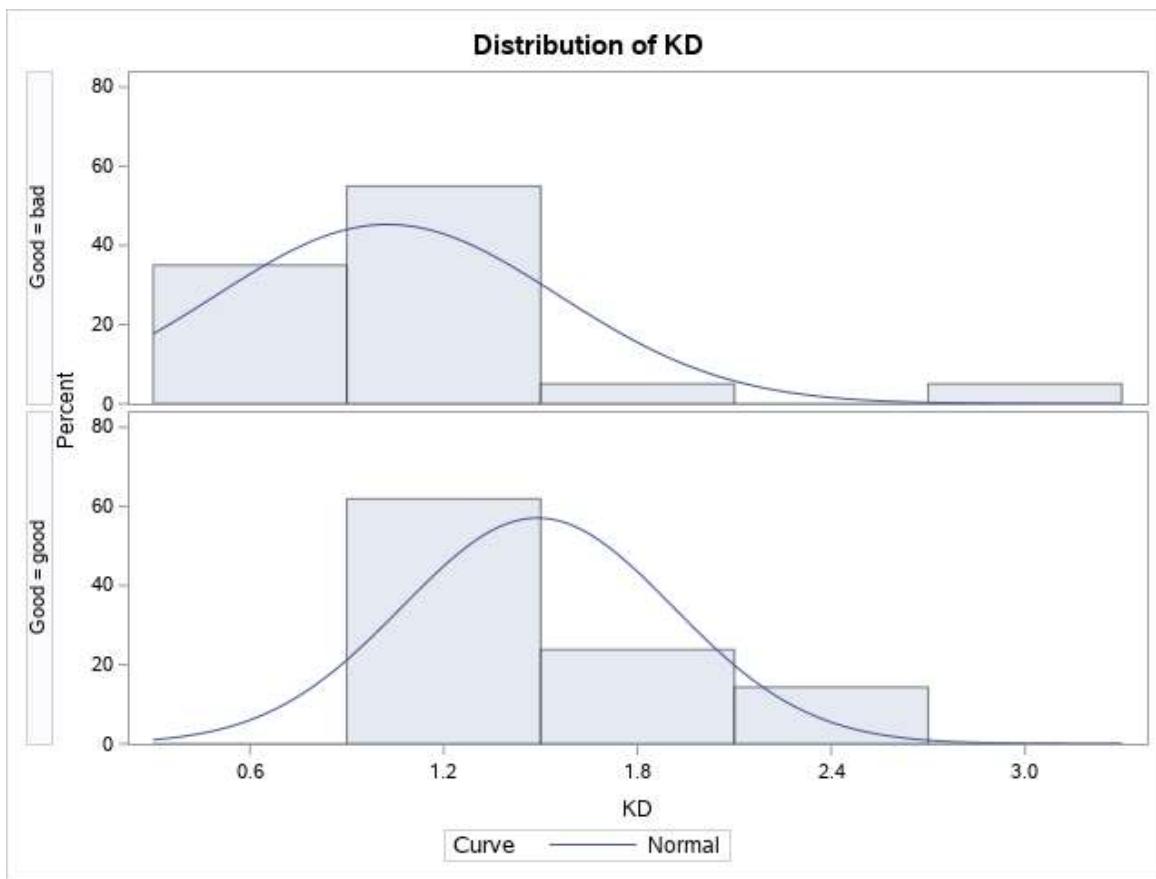
Variable	N	Mean	Std Dev	Minimum	Maximum
Wins	20	27.8000000	26.7711549	0	110.0000000
hours	20	12.7250000	9.2344820	3.0000000	40.0000000
KD	20	1.0255000	0.5285877	0.3900000	2.9800000

Good=good

Variable	N	Mean	Std Dev	Minimum	Maximum
Wins	21	130.0000000	127.7376217	40.0000000	515.0000000
hours	21	25.0348095	14.6754514	6.0000000	59.0000000
KD	21	1.4904762	0.4195292	1.0500000	2.4000000

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
Good = bad
Fitted Normal Distribution for KD

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	1.0255
Std Dev	Sigma	0.528588

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.27065278	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.34075463	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.93889784	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.39000	-0.20418
5.0	0.47000	0.15605
10.0	0.56000	0.34809
25.0	0.80000	0.66897
50.0	0.95500	1.02550
75.0	1.10000	1.38203
90.0	1.39500	1.70291
95.0	2.28500	1.89495
99.0	2.98000	2.25518

Histograms run

The UNIVARIATE Procedure
 Good = good
 Fitted Normal Distribution for KD

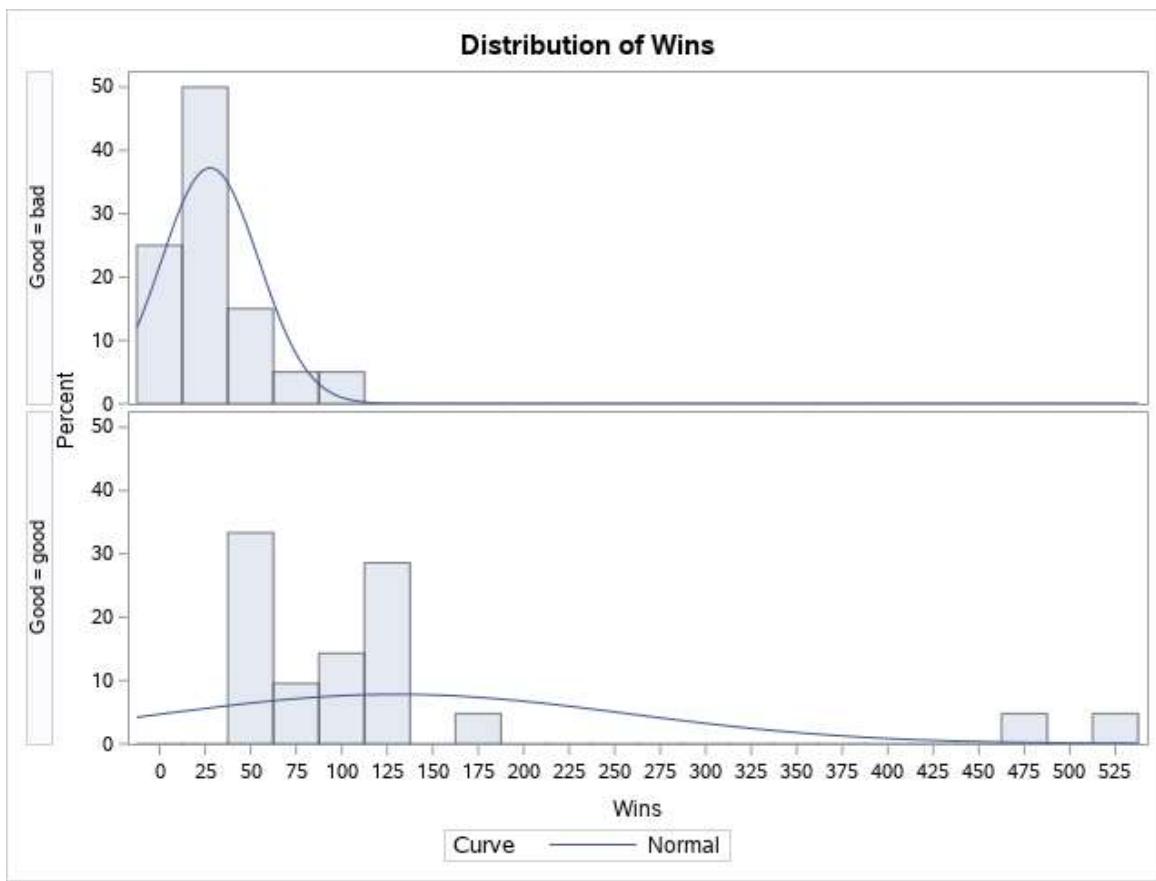
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	1.490476
Std Dev	Sigma	0.419529

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.18443748	Pr > D	0.061
Cramer-von Mises	W-Sq	0.16980897	Pr > W-Sq	0.012
Anderson-Darling	A-Sq	1.02210889	Pr > A-Sq	0.009

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	1.05000	0.51451
5.0	1.08000	0.80041
10.0	1.10000	0.95283
25.0	1.14000	1.20751
50.0	1.33000	1.49048
75.0	1.75000	1.77344
90.0	2.18000	2.02812
95.0	2.18000	2.18054
99.0	2.40000	2.46645

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
Good = bad
Fitted Normal Distribution for Wins

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	27.8
Std Dev	Sigma	26.77115

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.29164950	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.31721090	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.70157401	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.000	-34.47902
5.0	2.500	-16.23463
10.0	7.000	-6.50862
25.0	12.500	9.74313
50.0	19.500	27.80000
75.0	31.500	45.85687
90.0	68.500	62.10862
95.0	92.500	71.83463
99.0	110.000	90.07902

Histograms run

The UNIVARIATE Procedure
 Good = good
 Fitted Normal Distribution for Wins

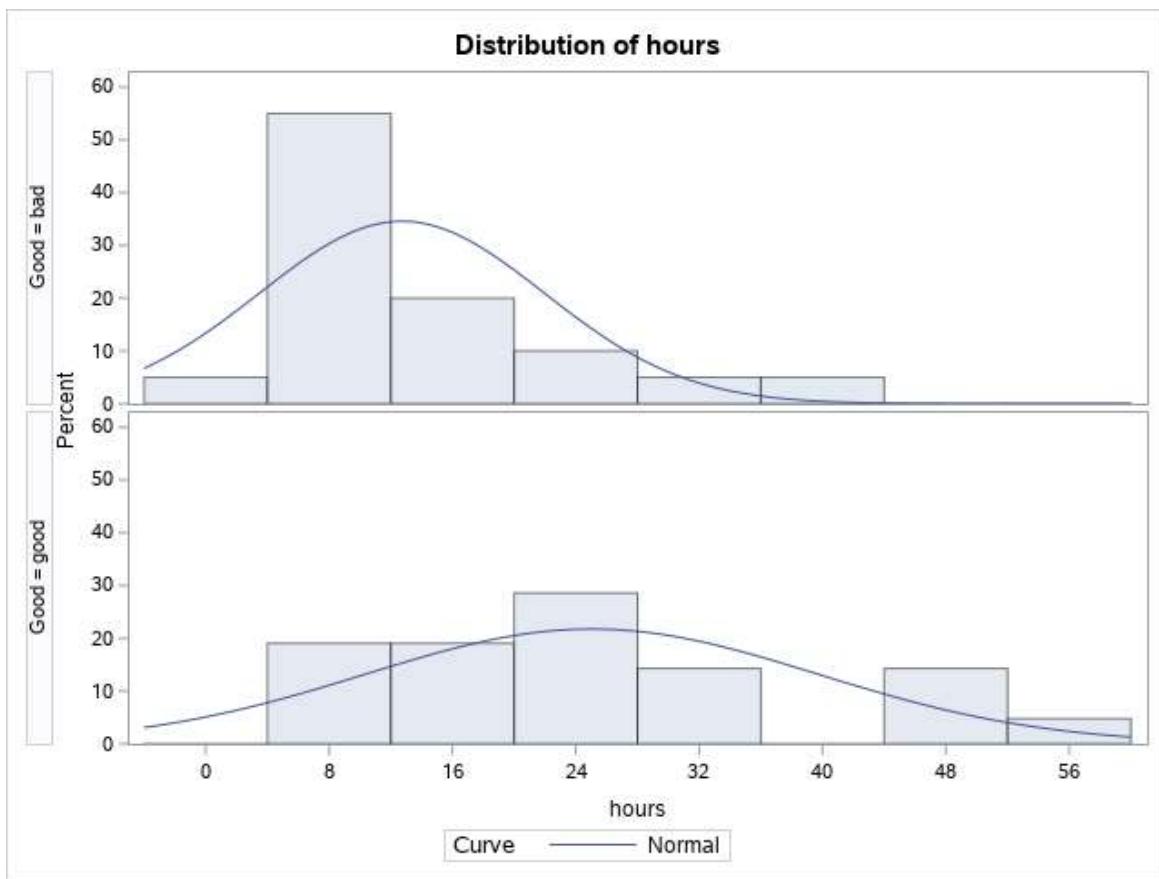
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	130
Std Dev	Sigma	127.7376

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.34153115	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.56841346	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	3.19984169	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	40.0000	-167.1621
5.0	41.0000	-80.1097
10.0	49.0000	-33.7023
25.0	60.0000	43.8423
50.0	102.0000	130.0000
75.0	123.0000	216.1577
90.0	165.0000	293.7023
95.0	483.0000	340.1097
99.0	515.0000	427.1621

Histograms run

The UNIVARIATE Procedure



Histograms run

The UNIVARIATE Procedure
Good = bad
Fitted Normal Distribution for hours

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	12.725
Std Dev	Sigma	9.234482

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.17409122	Pr > D	0.110
Cramer-von Mises	W-Sq	0.13817060	Pr > W-Sq	0.032
Anderson-Darling	A-Sq	0.90733098	Pr > A-Sq	0.018

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	3.00000	-8.75762
5.0	3.75000	-2.46437
10.0	4.50000	0.89054
25.0	6.00000	6.49644
50.0	10.50000	12.72500
75.0	16.75000	18.95356
90.0	24.50000	24.55946
95.0	34.00000	27.91437
99.0	40.00000	34.20762

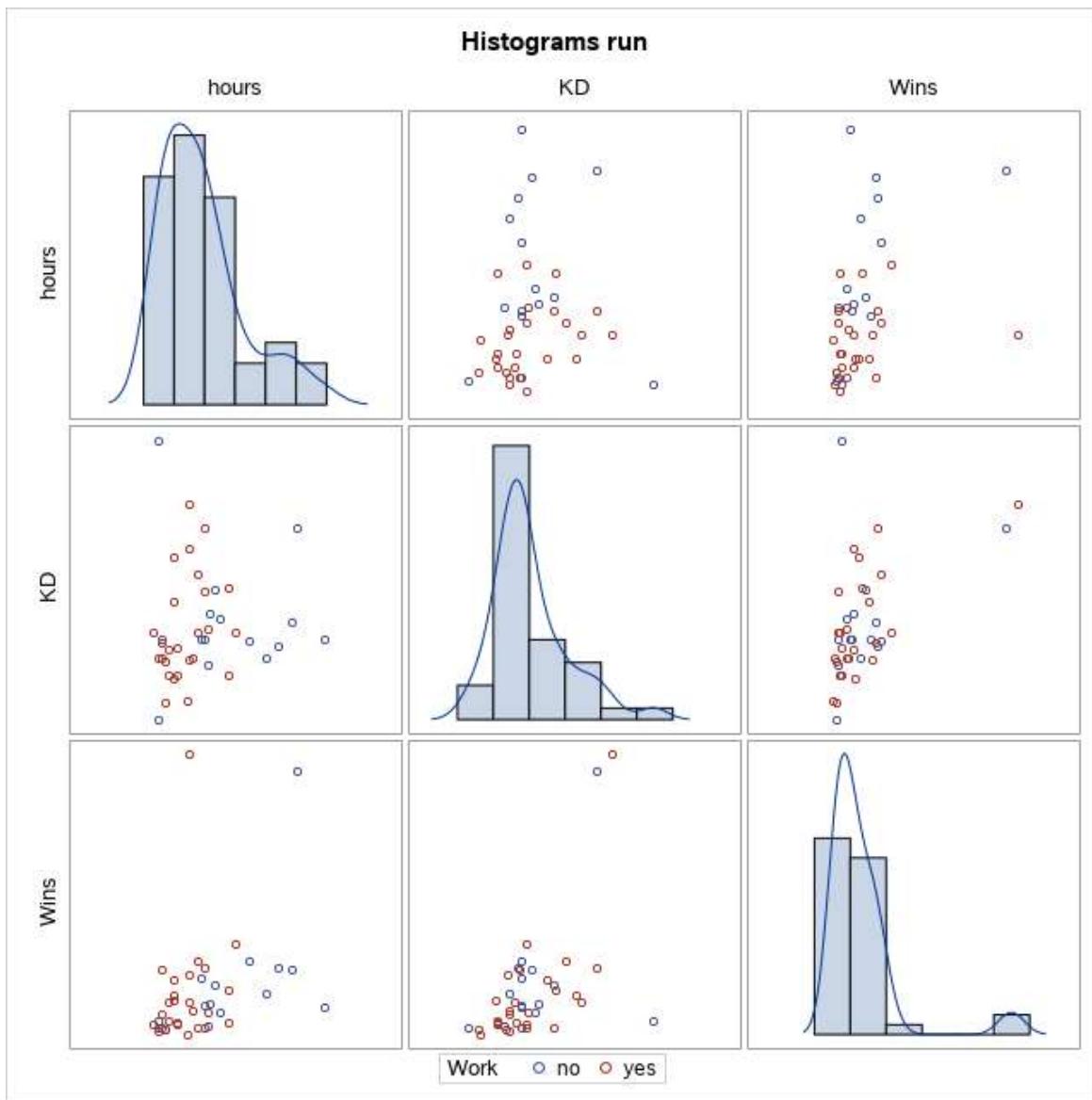
Histograms run

The UNIVARIATE Procedure
 Good = good
 Fitted Normal Distribution for hours

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	25.03481
Std Dev	Sigma	14.67545

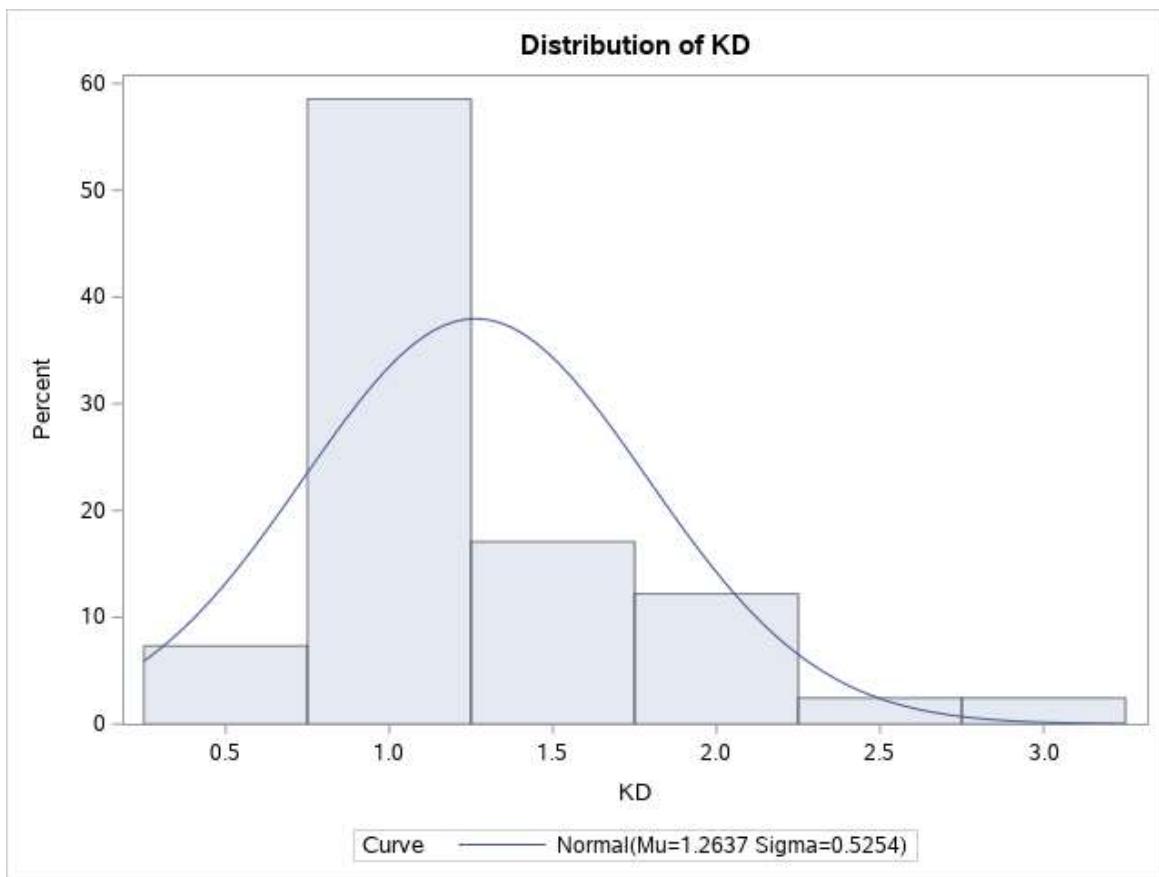
Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.17418582	Pr > D	0.094
Cramer-von Mises	W-Sq	0.13294389	Pr > W-Sq	0.039
Anderson-Darling	A-Sq	0.76276479	Pr > A-Sq	0.041

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	6.00000	-9.10540
5.0	8.00000	0.89584
10.0	10.00000	6.22746
25.0	15.00000	15.13637
50.0	21.00000	25.03481
75.0	30.00000	34.93325
90.0	48.52700	43.84216
95.0	50.00400	49.17378
99.0	59.00000	59.17501



Histogram

The UNIVARIATE Procedure



Histogram

The UNIVARIATE Procedure
Fitted Normal Distribution for KD

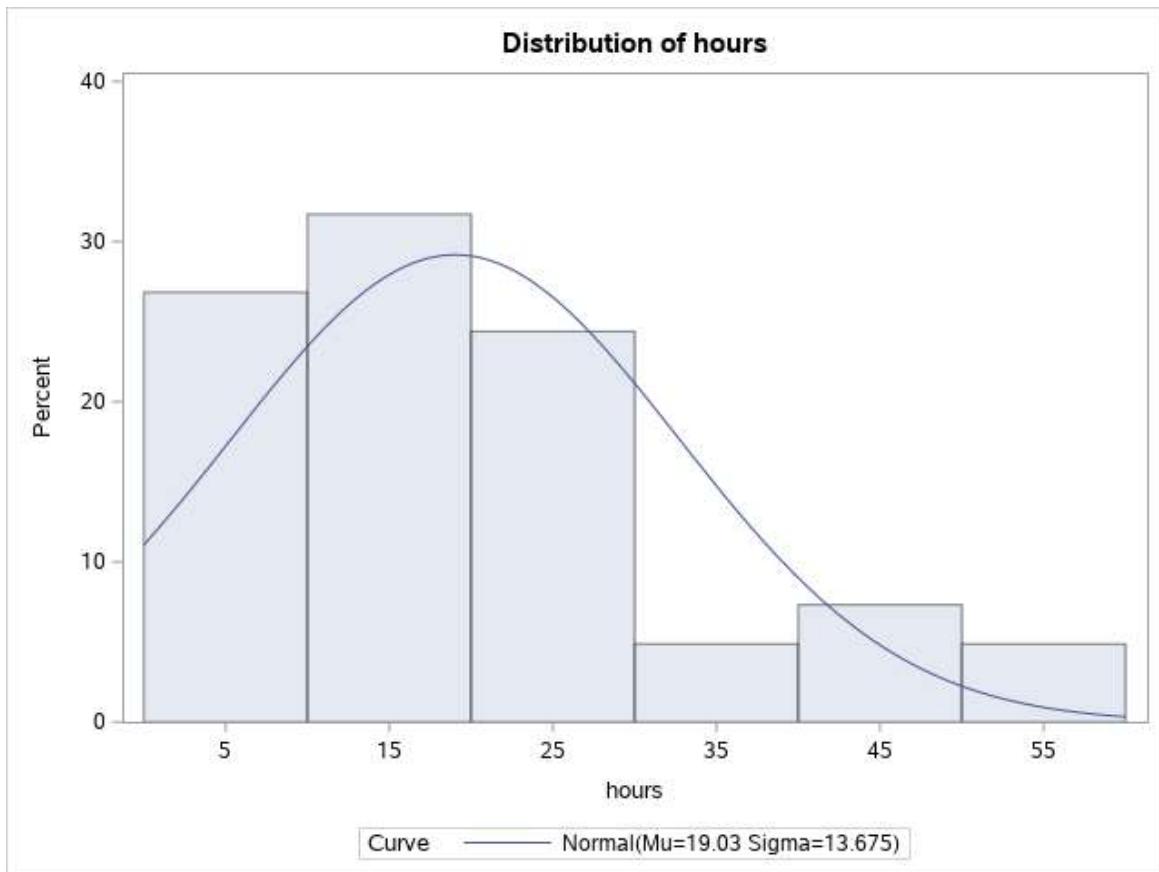
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	1.263659
Std Dev	Sigma	0.525442

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.18236121	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.26663372	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.39876443	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.39000	0.04130
5.0	0.57000	0.39938
10.0	0.80000	0.59028
25.0	0.97000	0.90925
50.0	1.14000	1.26366
75.0	1.49000	1.61806
90.0	1.98000	1.93704
95.0	2.18000	2.12793
99.0	2.98000	2.48602

Histogram

The UNIVARIATE Procedure

**Histogram**The UNIVARIATE Procedure
Fitted Normal Distribution for hours

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	19.03002
Std Dev	Sigma	13.67469

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.15316158	Pr > D	0.017
Cramer-von Mises	W-Sq	0.23691797	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	1.53477785	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	3.00000	-12.78207
5.0	4.50000	-3.46284
10.0	6.00000	1.50520
25.0	8.00000	9.80658
50.0	16.00000	19.03002
75.0	23.00000	28.25346
90.0	40.00000	36.55485
95.0	48.52700	41.52289
99.0	59.00000	50.84211

Histogram

The REG Procedure
 Model: MODEL1
 Dependent Variable: Wins

Number of Observations Read	34
Number of Observations Used	34

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	23016	7672.03675	5.11	0.0056
Error	30	44999	1499.98162		
Corrected Total	33	68016			

Root MSE	38.72960	R-Square	0.3384
Dependent Mean	55.79412	Adj R-Sq	0.2722
Coeff Var	69.41520		

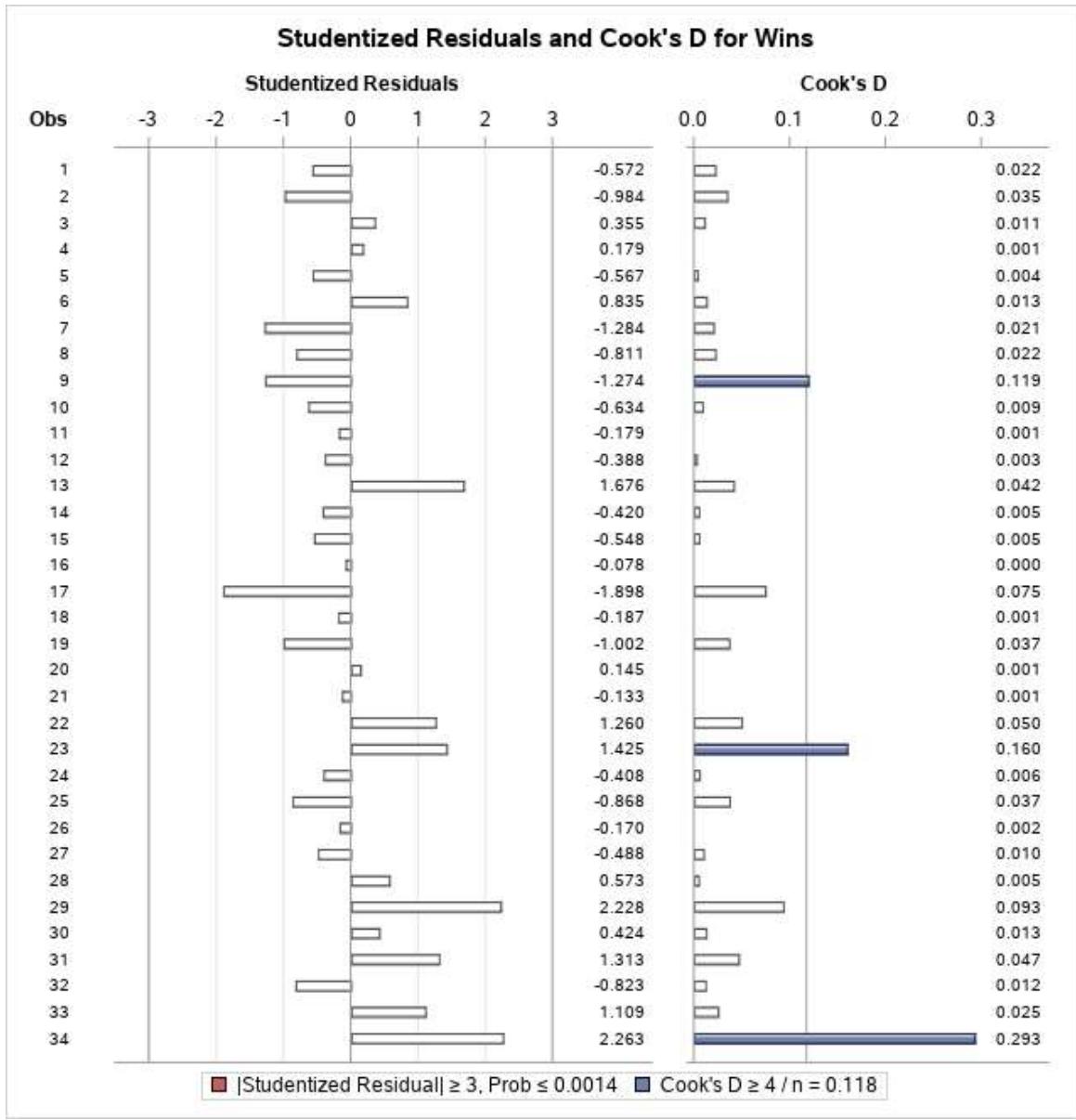
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-25.62210	25.05795	-1.02	0.3147
KD	1	42.11758	17.67131	2.38	0.0237
hours	1	1.87301	0.91696	2.04	0.0500
w1	1	4.84913	16.10662	0.30	0.7654

Histogram

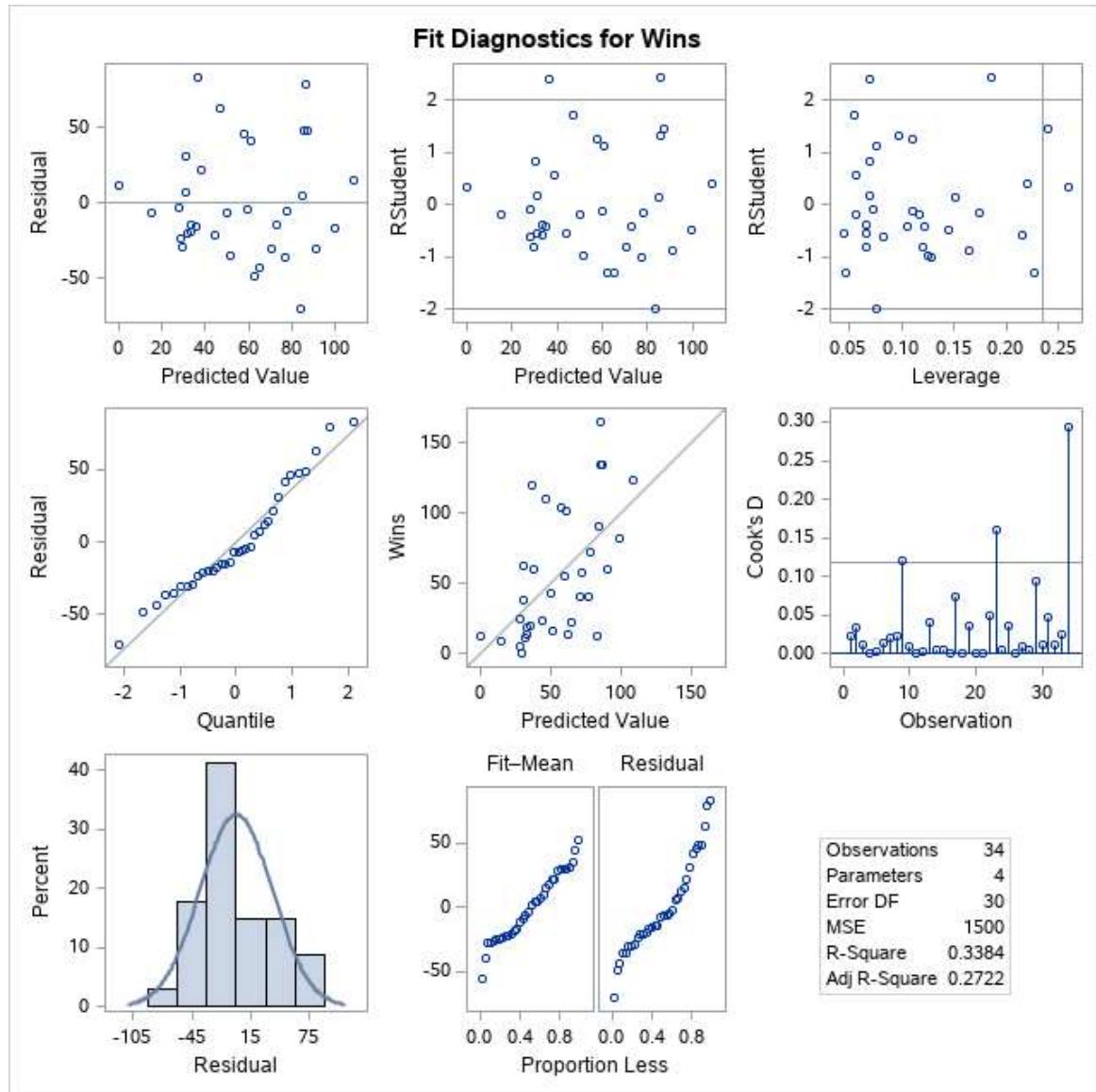
The REG Procedure
 Model: MODEL1
 Dependent Variable: Wins

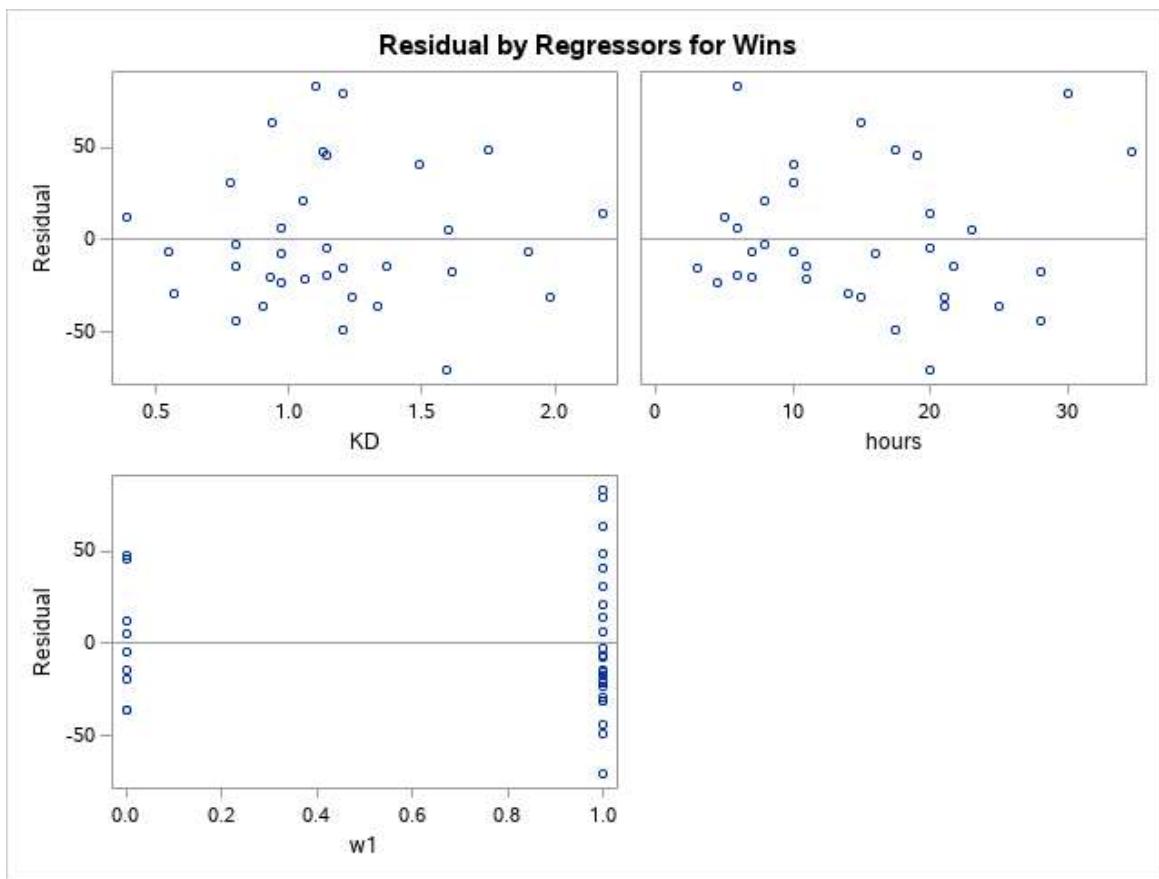
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	14	33.6300	17.9386	-19.6300	34.325	-0.572	0.022
2	16	51.6170	13.7331	-35.6170	36.213	-0.984	0.035
3	12	0.1688	19.7211	11.8312	33.333	0.355	0.011
4	38	31.3192	10.2726	6.6808	37.342	0.179	0.001
5	23	44.4748	8.1994	-21.4748	37.852	-0.567	0.004
6	62	30.8089	10.2697	31.1911	37.343	0.835	0.013
7	14	62.5459	8.4445	-48.5459	37.798	-1.284	0.021
8	0	29.4562	13.4200	-29.4562	36.330	-0.811	0.022
9	22	65.3655	18.4657	-43.3655	34.044	-1.274	0.119
10	5	28.5096	11.0995	-23.5096	37.105	-0.634	0.009
11	9	15.5028	13.2124	-6.5028	36.406	-0.179	0.001
12	19	33.5243	10.0206	-14.5243	37.411	-0.388	0.003
13	110	46.9128	9.1482	63.0872	37.634	1.676	0.042
14	20	35.3872	12.6054	-15.3872	36.621	-0.420	0.005
15	11	31.5075	9.9295	-20.5075	37.435	-0.548	0.005
16	25	27.9052	10.4119	-2.9052	37.304	-0.078	0.000
17	13	83.6543	10.7120	-70.6543	37.219	-1.898	0.075
18	43	50.0493	9.1866	-7.0493	37.624	-0.187	0.001

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
19	41	77.2196	13.8609	-36.2196	36.164	-1.002	0.037
20	90	84.8453	15.0907	5.1547	35.669	0.145	0.001
21	55	59.8522	12.9175	-4.8522	36.512	-0.133	0.001
22	104	57.9792	12.9227	46.0208	36.510	1.260	0.050
23	135	86.8894	18.9633	48.1106	33.769	1.425	0.160
24	58	72.7983	13.5302	-14.7983	36.289	-0.408	0.006
25	60	90.7150	15.7160	-30.7150	35.398	-0.868	0.037
26	72	77.9806	16.1957	-5.9806	35.181	-0.170	0.002
27	82	99.4807	14.7348	-17.4807	35.817	-0.488	0.010
28	60	38.4346	9.1878	21.5654	37.624	0.573	0.005
29	120	36.7945	10.2466	83.2055	37.350	2.228	0.093
30	123	108.5036	18.1604	14.4964	34.208	0.424	0.013
31	134	85.7105	12.1197	48.2895	36.784	1.313	0.047
32	40	70.7861	10.0321	-30.7861	37.408	-0.823	0.012
33	102	60.7124	10.6764	41.2876	37.229	1.109	0.025
34	165	85.9585	16.7206	79.0415	34.934	2.263	0.293



Sum of Residuals	0
Sum of Squared Residuals	44999
Predicted Residual SS (PRESS)	58050





Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins

Number of Observations Read	31
Number of Observations Used	31

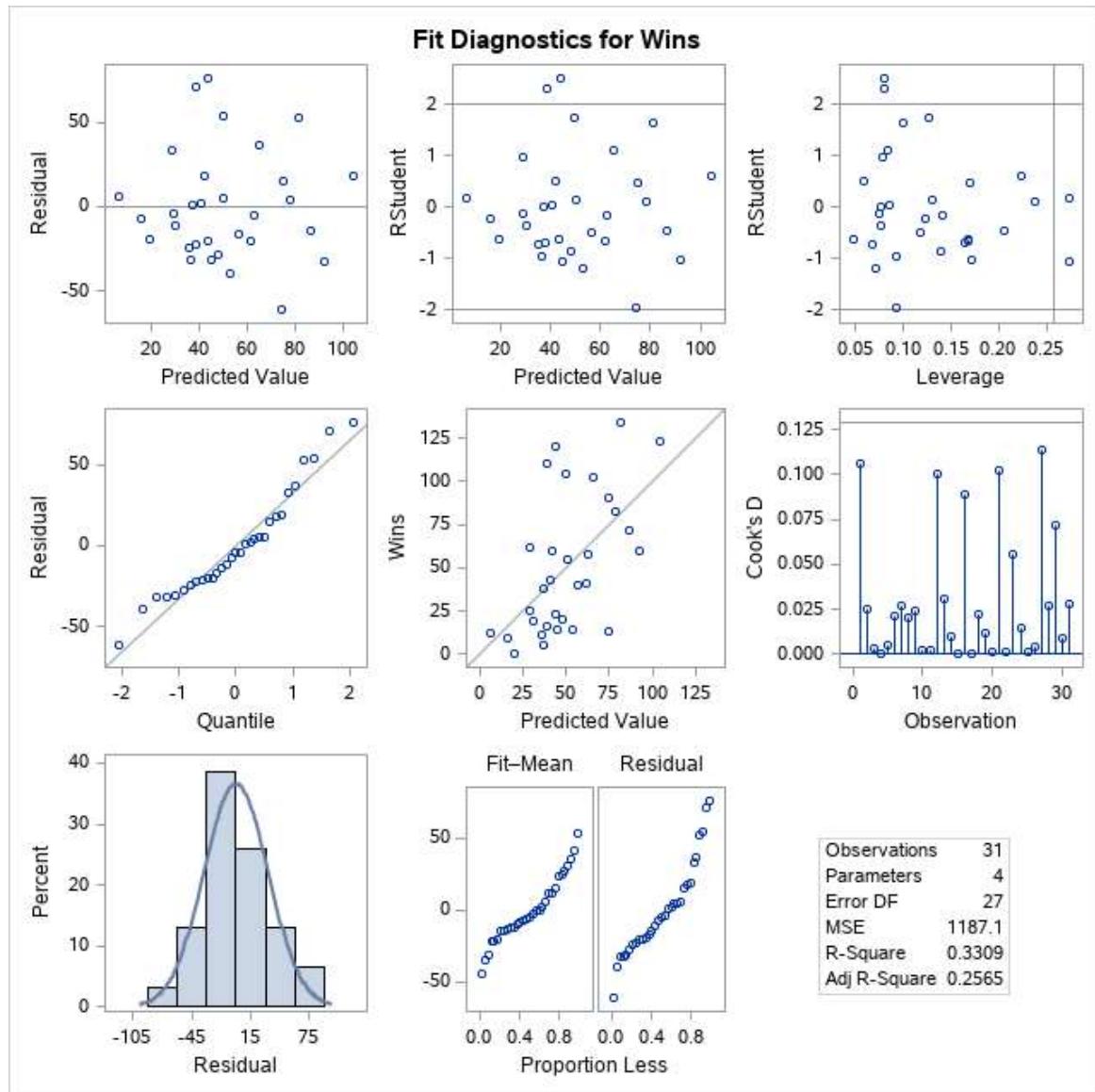
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	15851	5283.51072	4.45	0.0115
Error	27	32052	1187.12246		
Corrected Total	30	47903			

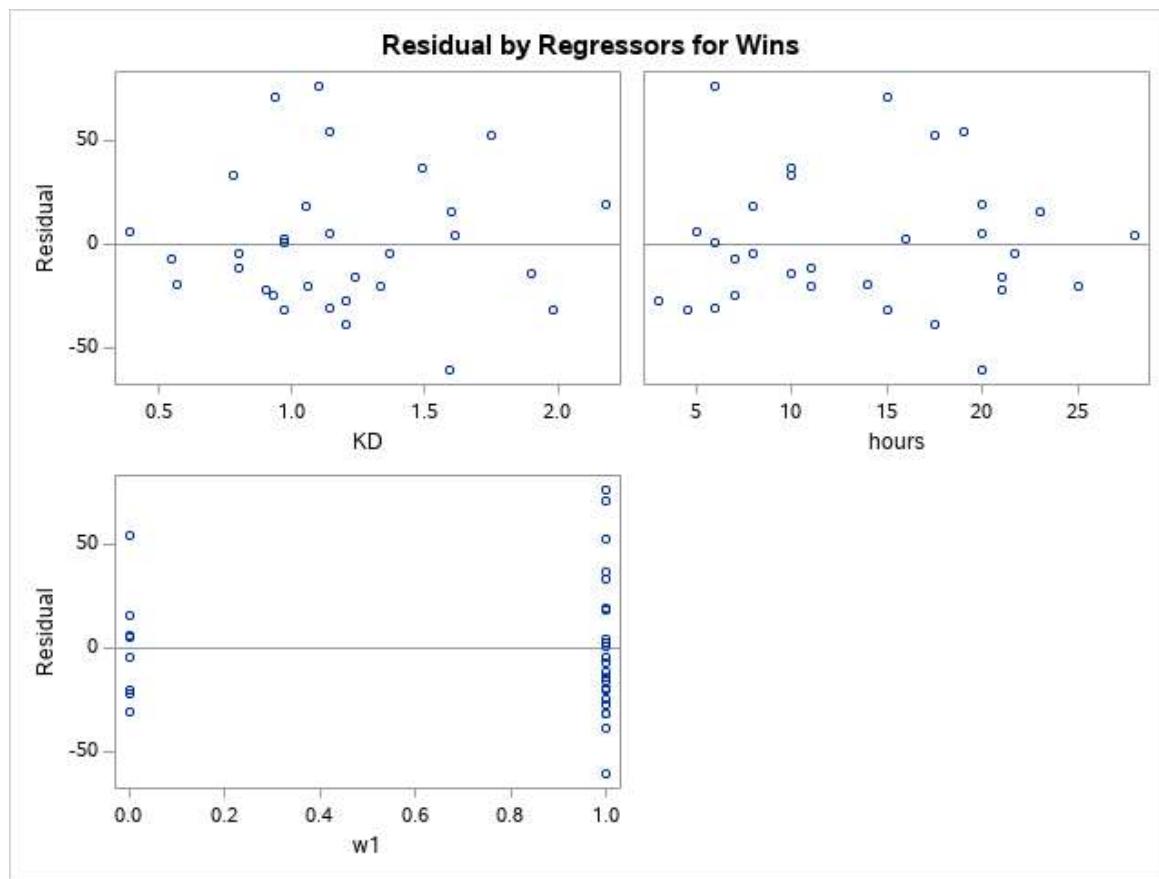
Root MSE	34.45464	R-Square	0.3309
Dependent Mean	50.80645	Adj R-Sq	0.2565
Coeff Var	67.81549		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-15.26355	22.81785	-0.67	0.5092
KD	1	51.16283	17.53026	2.92	0.0070
hours	1	0.36330	1.13438	0.32	0.7512
w1	1	0.81346	15.63376	0.05	0.9589

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins





Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins

Number of Observations Read	31
Number of Observations Used	31

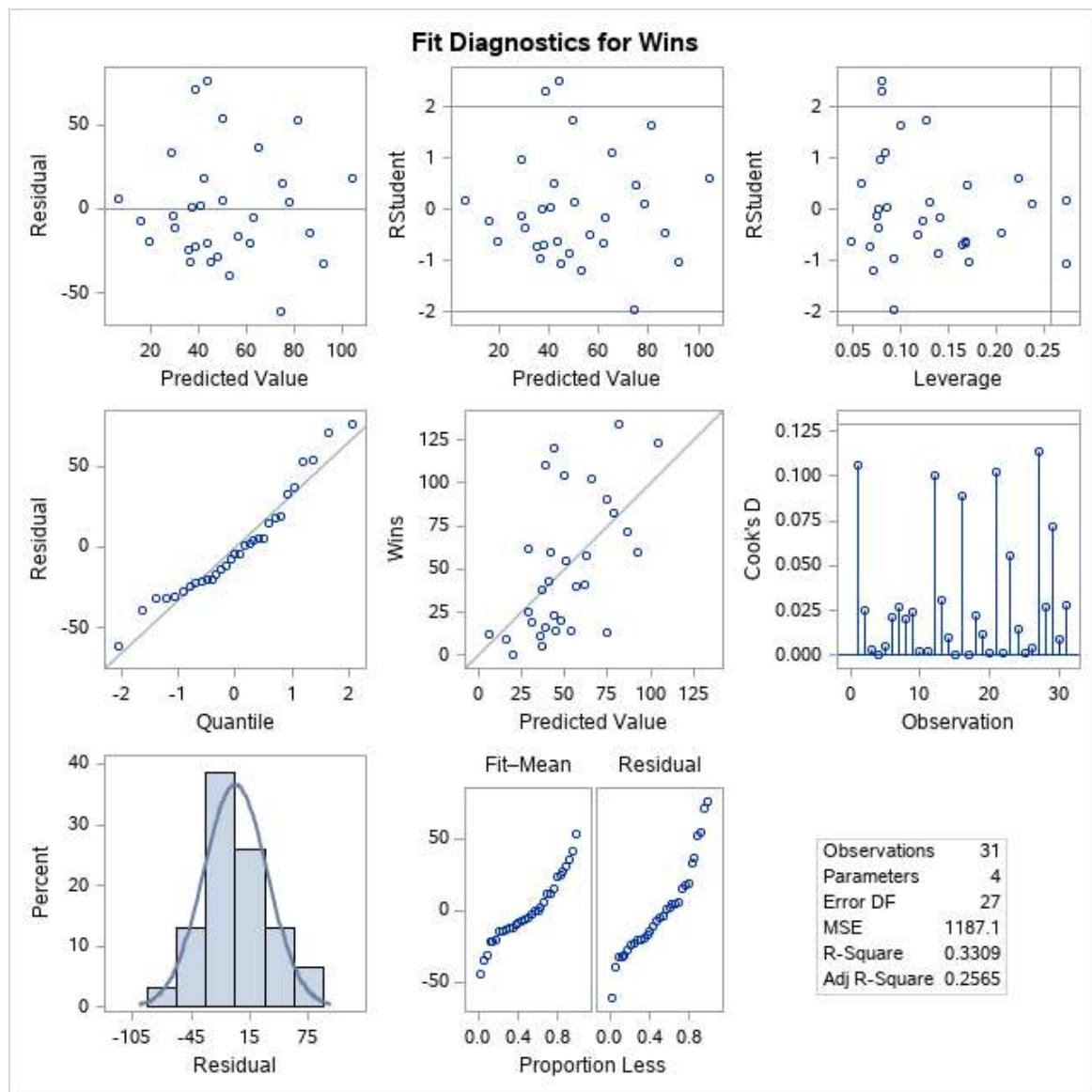
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	15851	5283.51072	4.45	0.0115
Error	27	32052	1187.12246		
Corrected Total	30	47903			

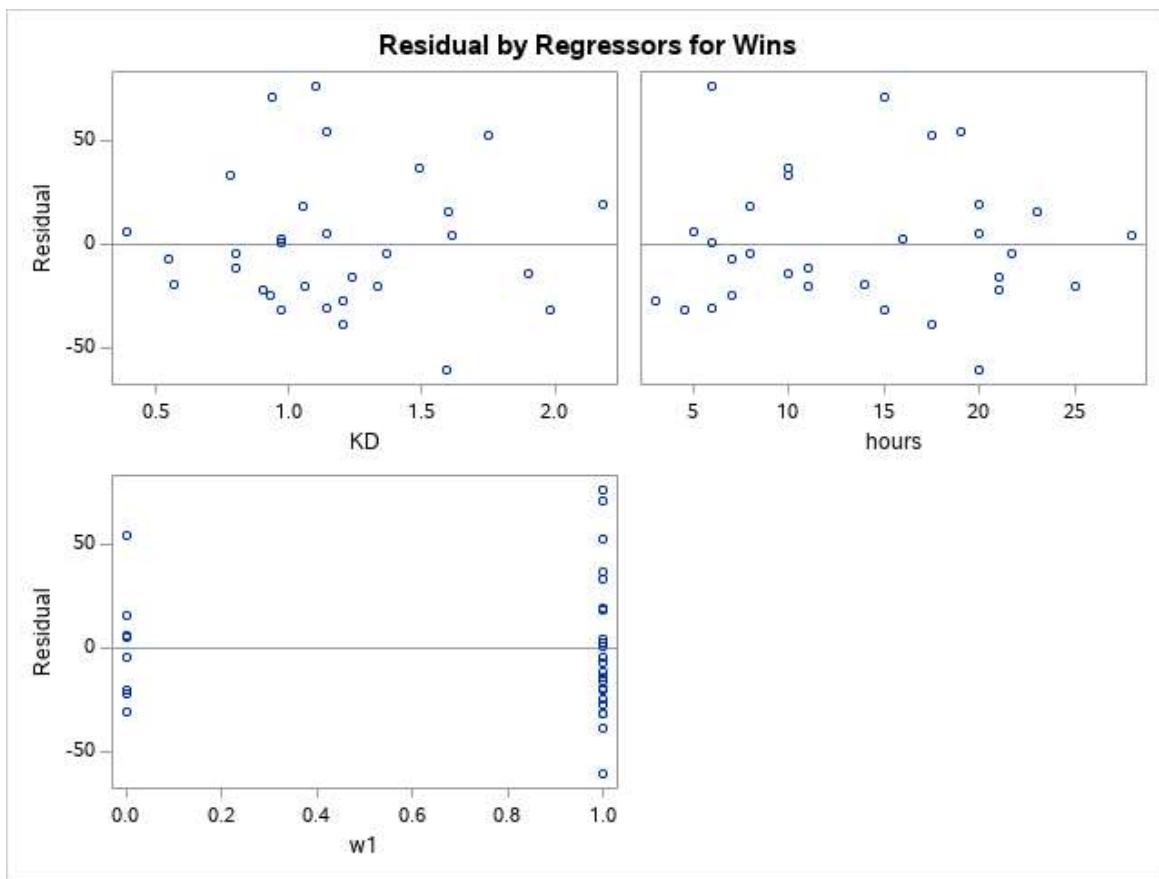
Root MSE	34.45464	R-Square	0.3309
Dependent Mean	50.80645	Adj R-Sq	0.2565
Coeff Var	67.81549		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-15.26355	22.81785	-0.67	0.5092
KD	1	51.16283	17.53026	2.92	0.0070
hours	1	0.36330	1.13438	0.32	0.7512
w1	1	0.81346	15.63376	0.05	0.9589

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins





Histogram

The REG Procedure
Model: MODEL1

Test test1 Results for Dependent Variable Wins				
Source	DF	Mean Square	F Value	Pr > F
Numerator	2	65.79474	0.06	0.9462
Denominator	27	1187.12246		

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins

Number of Observations Read	31
Number of Observations Used	31

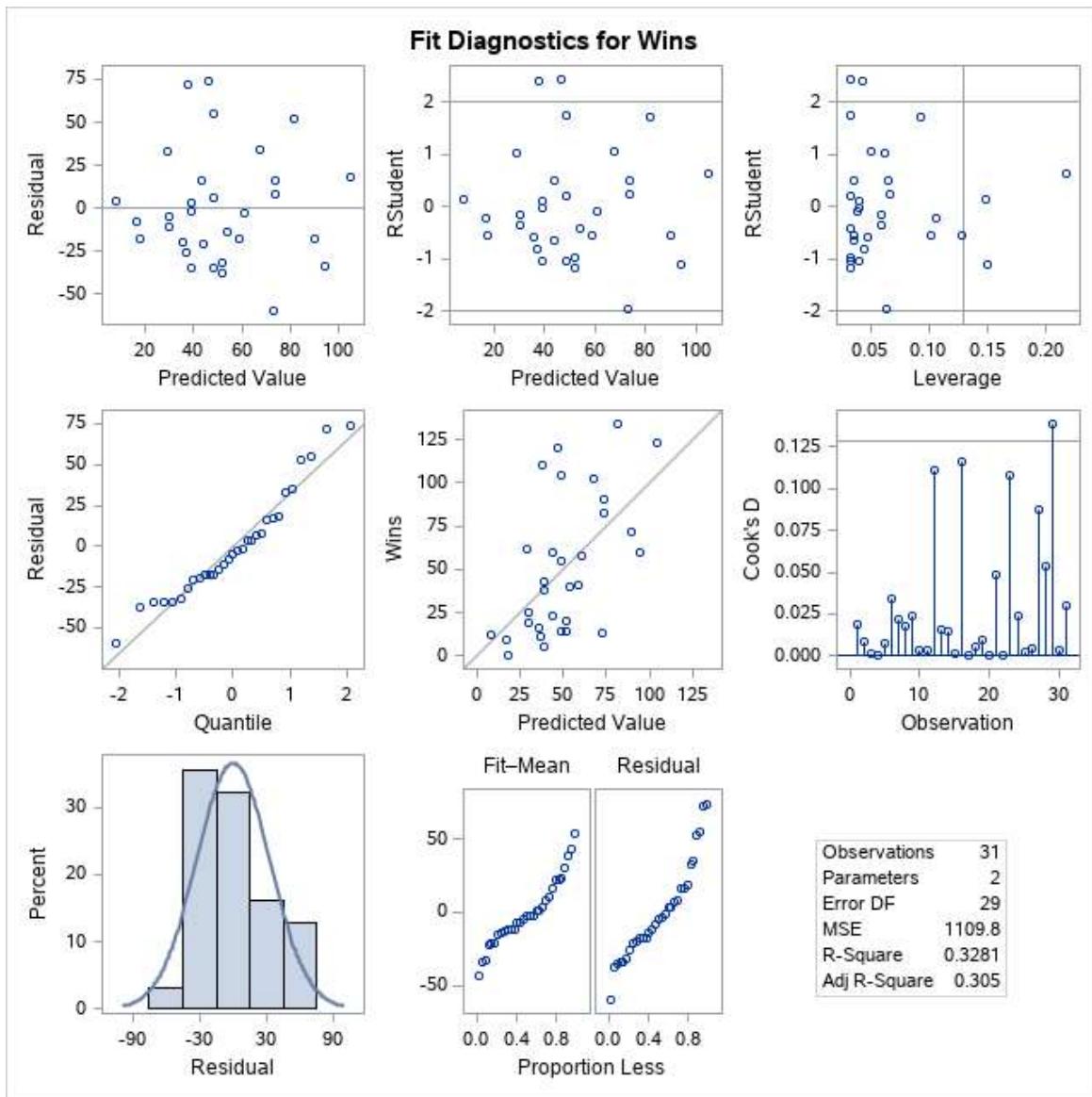
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	15719	15719	14.16	0.0008
Error	29	32184	1109.78952		
Corrected Total	30	47903			

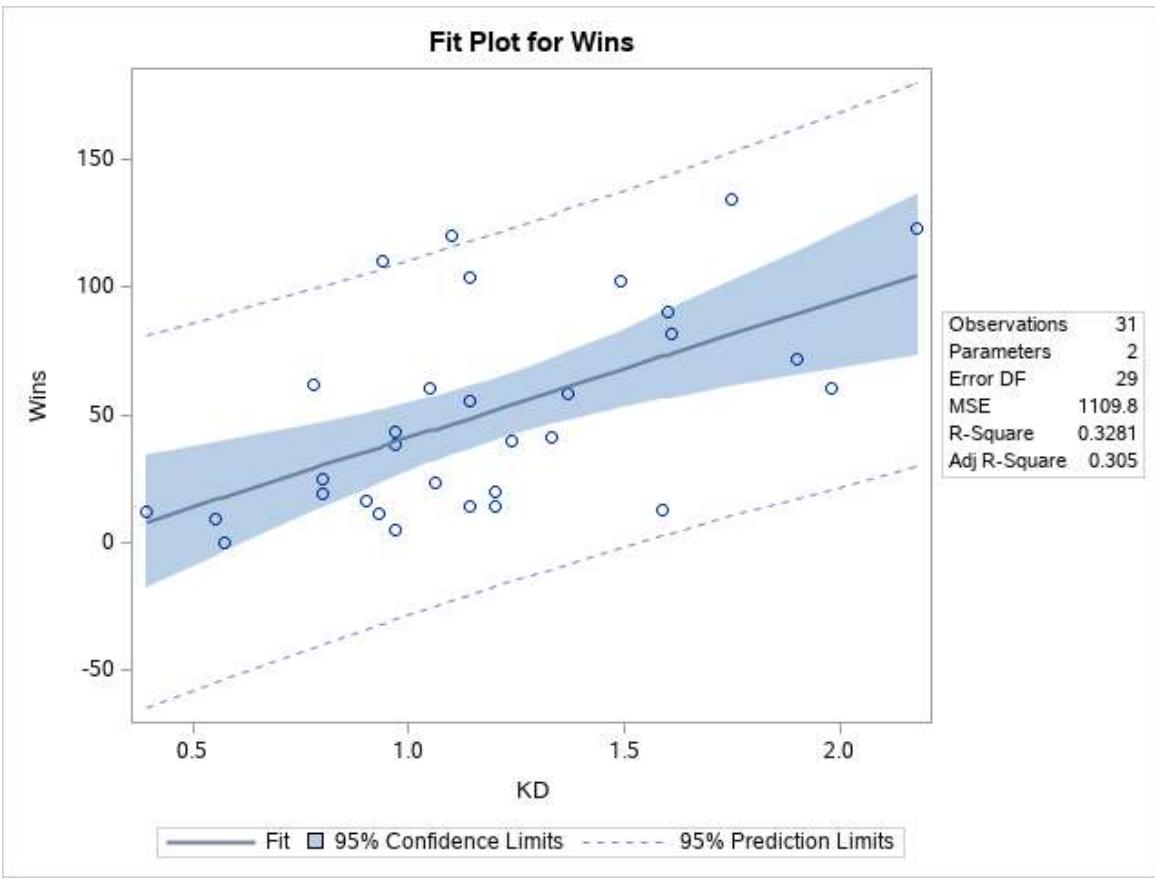
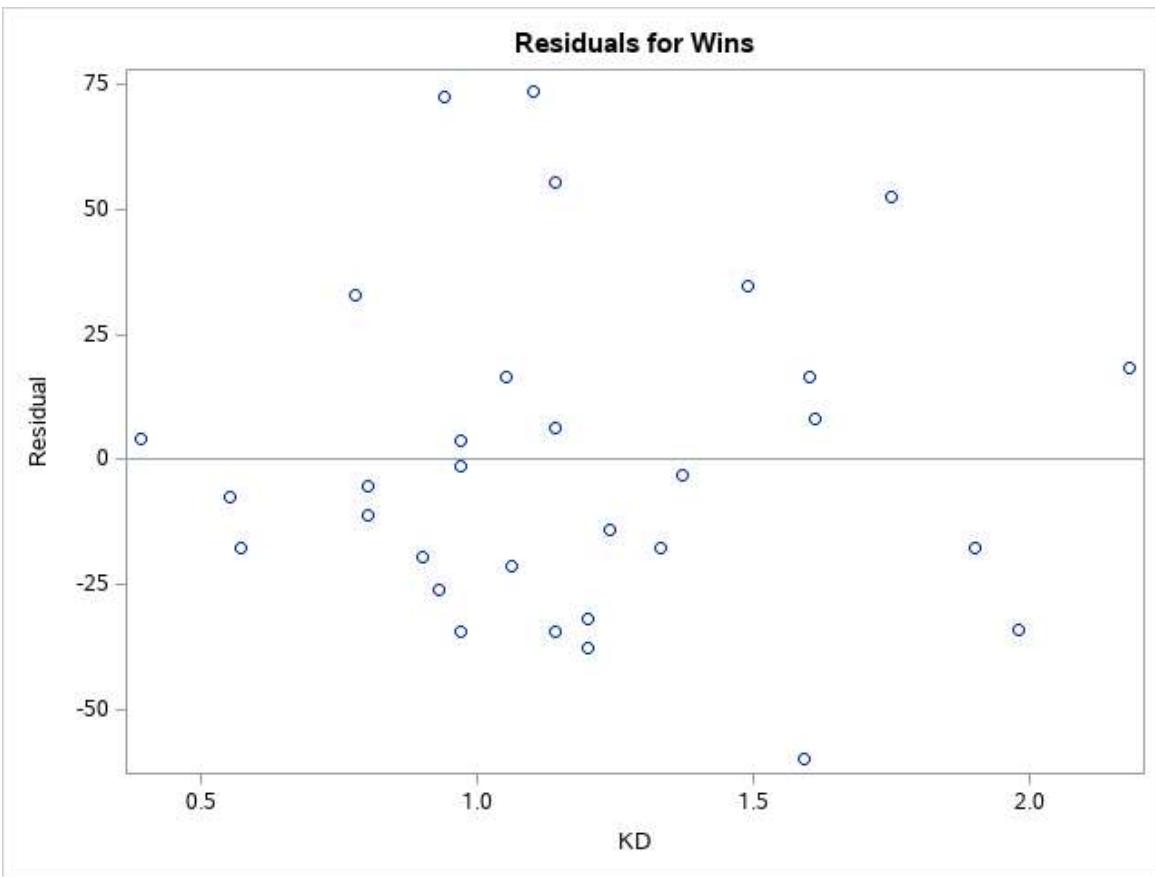
Root MSE	33.31350	R-Square	0.3281
Dependent Mean	50.80645	Adj R-Sq	0.3050
Coeff Var	65.56944		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-13.03998	17.98887	-0.72	0.4743
KD	1	54.01854	14.35329	3.76	0.0008

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: Wins





Histogram

The REG Procedure

Model: MODEL1
 Dependent Variable: hours

Number of Observations Read	34
Number of Observations Used	34

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	698.22250	232.74083	4.46	0.0105
Error	30	1566.14099	52.20470		
Corrected Total	33	2264.36349			

Root MSE	7.22528	R-Square	0.3084
Dependent Mean	15.26176	Adj R-Sq	0.2392
Coeff Var	47.34238		

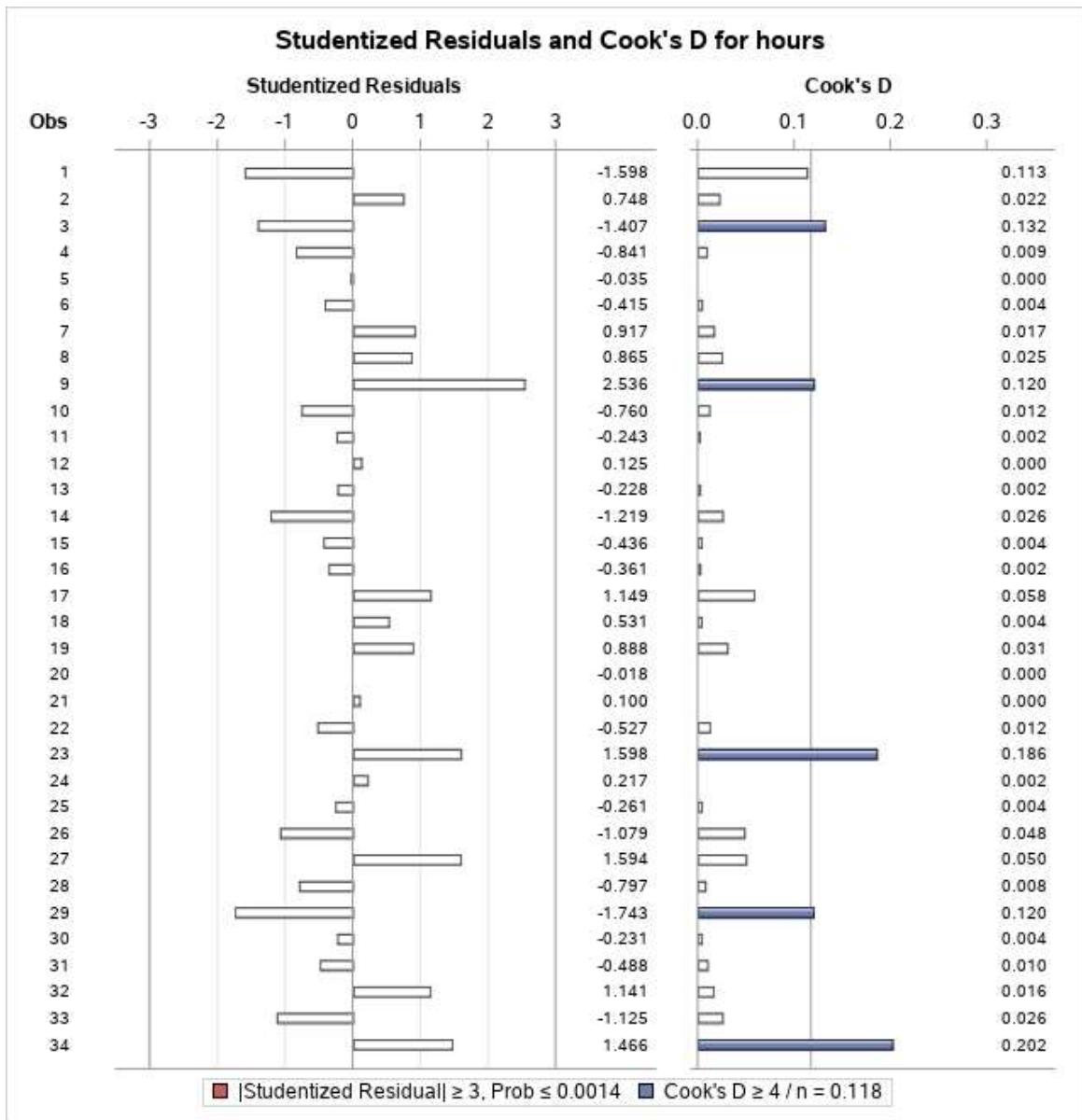
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11.96183	4.22437	2.83	0.0082
KD	1	3.30572	3.54428	0.93	0.3584
Wins	1	0.06519	0.03191	2.04	0.0500
w1	1	-5.71727	2.82251	-2.03	0.0518

Histogram

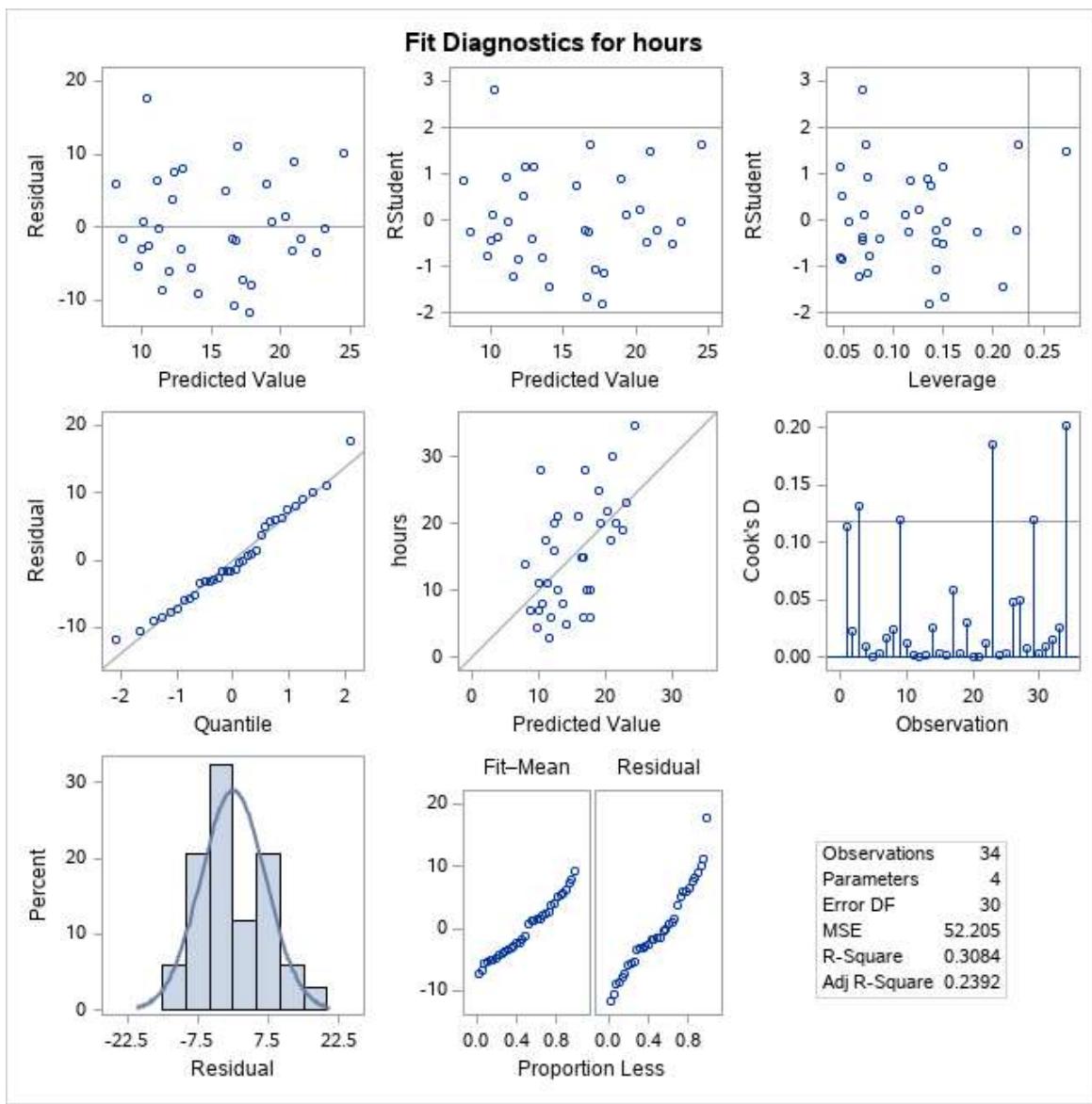
The REG Procedure
 Model: MODEL1
 Dependent Variable: hours

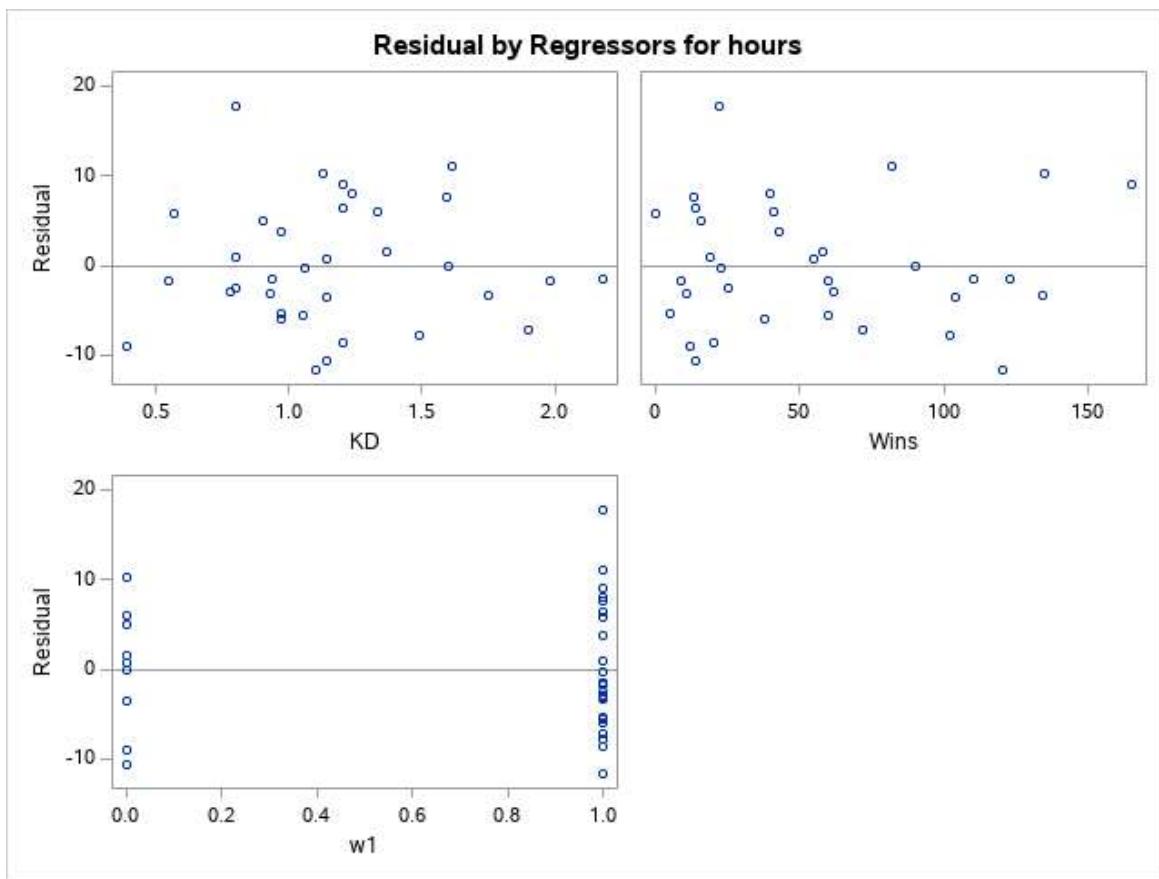
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	6.0	16.6430	2.8055	-10.6430	6.658	-1.598	0.113
2	21.0	15.9800	2.6825	5.0200	6.709	0.748	0.022
3	5.0	14.0333	3.3133	-9.0333	6.421	-1.407	0.132
4	6.0	11.9282	1.5978	-5.9282	7.046	-0.841	0.009
5	11.0	11.2479	1.6949	-0.2479	7.024	-0.035	0.000
6	10.0	12.8647	2.1274	-2.8647	6.905	-0.415	0.004
7	17.5	11.1241	1.9649	6.3759	6.953	0.917	0.017
8	14.0	8.1288	2.4750	5.8712	6.788	0.865	0.025
9	28.0	10.3233	1.9062	17.6767	6.969	2.536	0.120
10	4.5	9.7771	2.0002	-5.2771	6.943	-0.760	0.012
11	7.0	8.6494	2.4564	-1.6494	6.795	-0.243	0.002
12	11.0	10.1277	1.9272	0.8723	6.964	0.125	0.000
13	15.0	16.5226	2.7300	-1.5226	6.690	-0.228	0.002
14	3.0	11.5152	1.8406	-8.5152	6.987	-1.219	0.026
15	7.0	10.0359	1.9006	-3.0359	6.971	-0.436	0.004
16	8.0	10.5188	1.8898	-2.5188	6.974	-0.361	0.002
17	20.0	12.3481	2.7988	7.6519	6.661	1.149	0.058
18	16.0	12.2542	1.5897	3.7458	7.048	0.531	0.004
19	25.0	19.0311	2.6497	5.9689	6.722	0.888	0.031
20	23.0	23.1179	2.8207	-0.1179	6.652	-0.018	0.000
21	20.0	19.3157	2.4123	0.6843	6.811	0.100	0.000
22	19.0	22.5099	2.8033	-3.5099	6.659	-0.527	0.012
23	34.7	24.4976	3.4290	10.1624	6.360	1.598	0.186

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
24	21.7	20.2716	2.5600	1.4684	6.757	0.217	0.002
25	15.0	16.7011	3.0975	-1.7011	6.528	-0.261	0.004
26	10.0	17.2189	2.7264	-7.2189	6.691	-1.079	0.048
27	28.0	16.9122	1.9526	11.0878	6.956	1.594	0.050
28	8.0	13.6268	1.5563	-5.6268	7.056	-0.797	0.008
29	6.0	17.7034	2.6684	-11.7034	6.714	-1.743	0.120
30	20.0	21.4691	3.4132	-1.4691	6.368	-0.231	0.004
31	17.5	20.7647	2.7317	-3.2647	6.689	-0.488	0.010
32	21.0	12.9512	1.5630	8.0488	7.054	1.141	0.016
33	10.0	17.8192	1.9765	-7.8192	6.950	-1.125	0.026
34	30.0	20.9674	3.7761	9.0326	6.160	1.466	0.202



Sum of Residuals	0
Sum of Squared Residuals	1566.14099
Predicted Residual SS (PRESS)	2052.87002





Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: hours

Number of Observations Read	29
Number of Observations Used	29

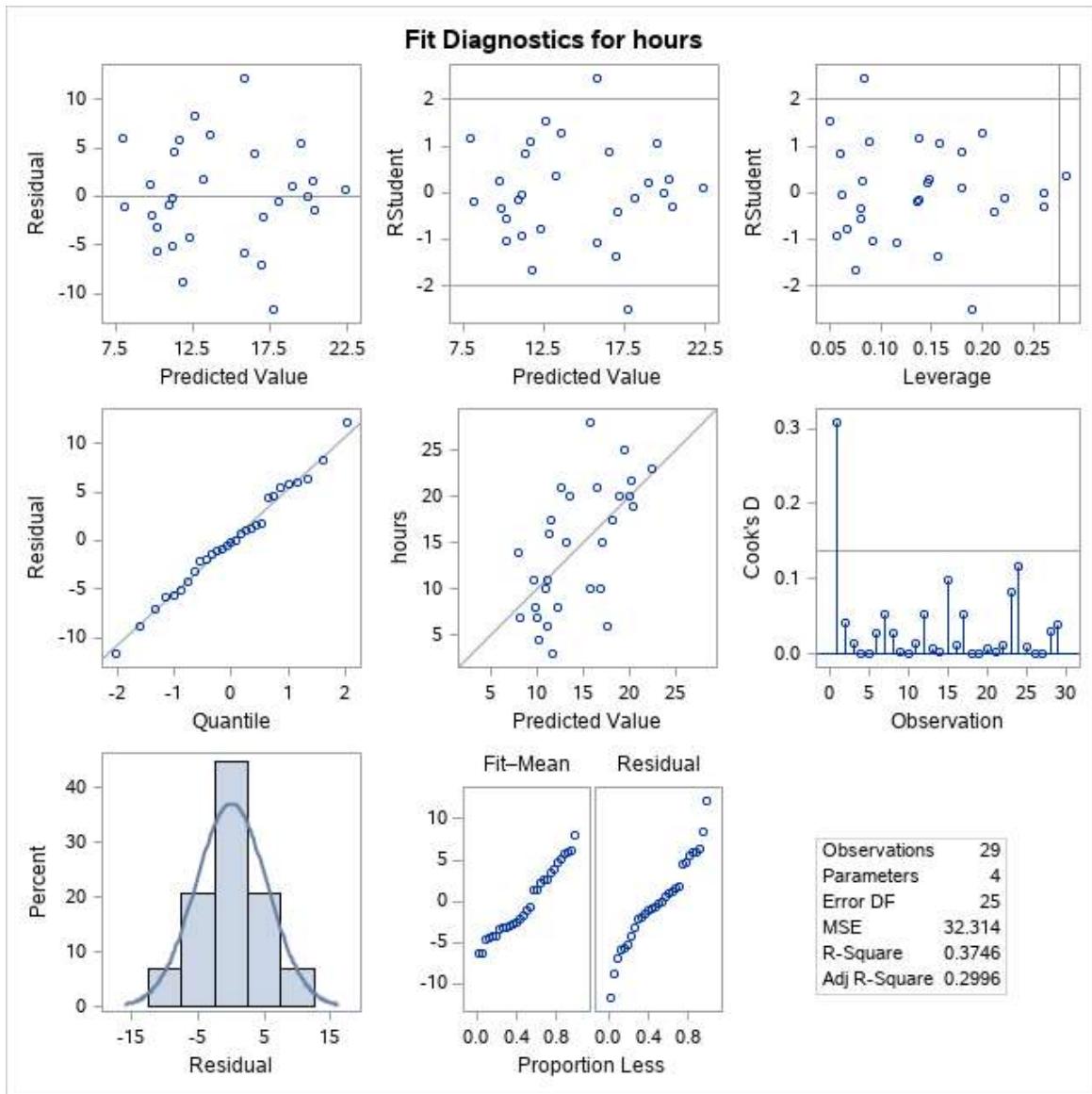
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	483.87390	161.29130	4.99	0.0075
Error	25	807.83964	32.31359		
Corrected Total	28	1291.71354			

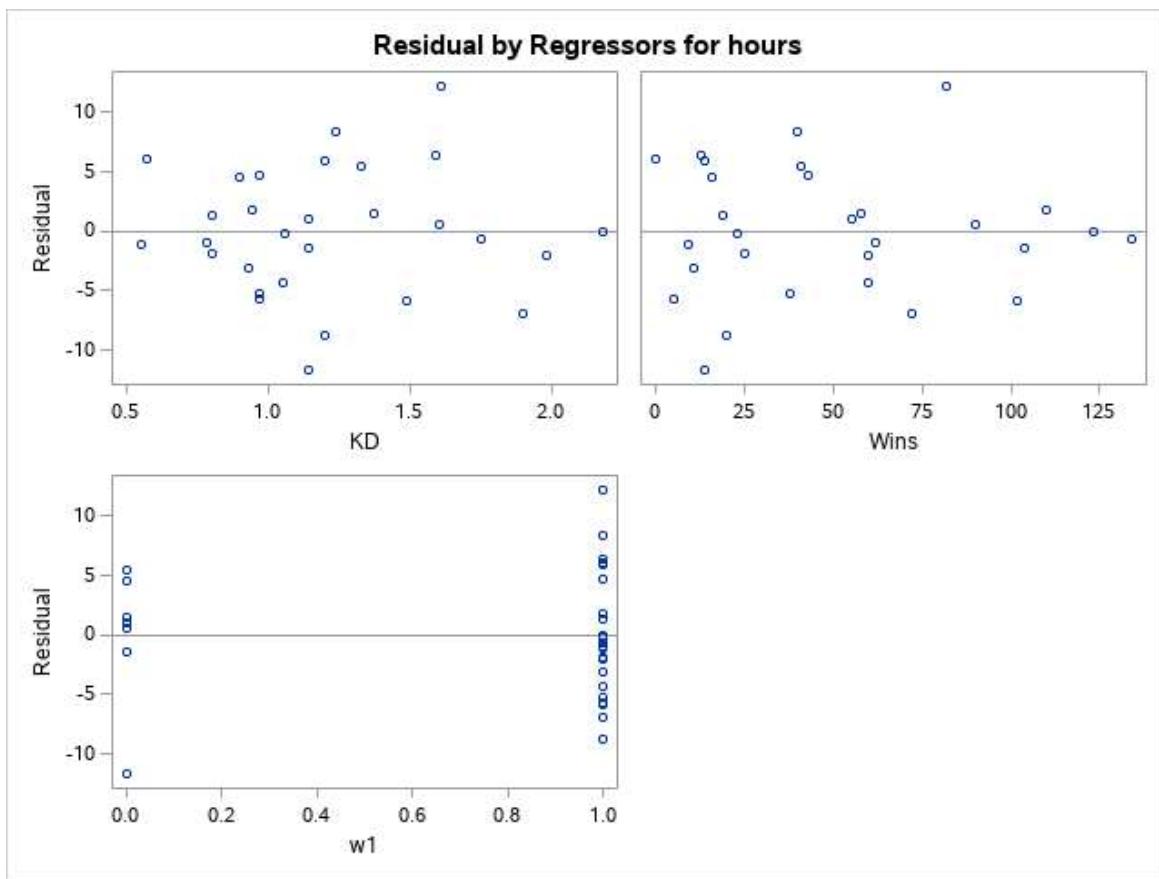
Root MSE	5.68450	R-Square	0.3746
Dependent Mean	14.31862	Adj R-Sq	0.2996
Coeff Var	39.70008		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11.41774	3.90893	2.92	0.0073
KD	1	5.14063	3.27460	1.57	0.1290
Wins	1	0.03043	0.03497	0.87	0.3925
w1	1	-6.38555	2.47196	-2.58	0.0160

Histogram

The REG Procedure
 Model: MODEL1
 Dependent Variable: hours





Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: hours

Number of Observations Read	29
Number of Observations Used	29

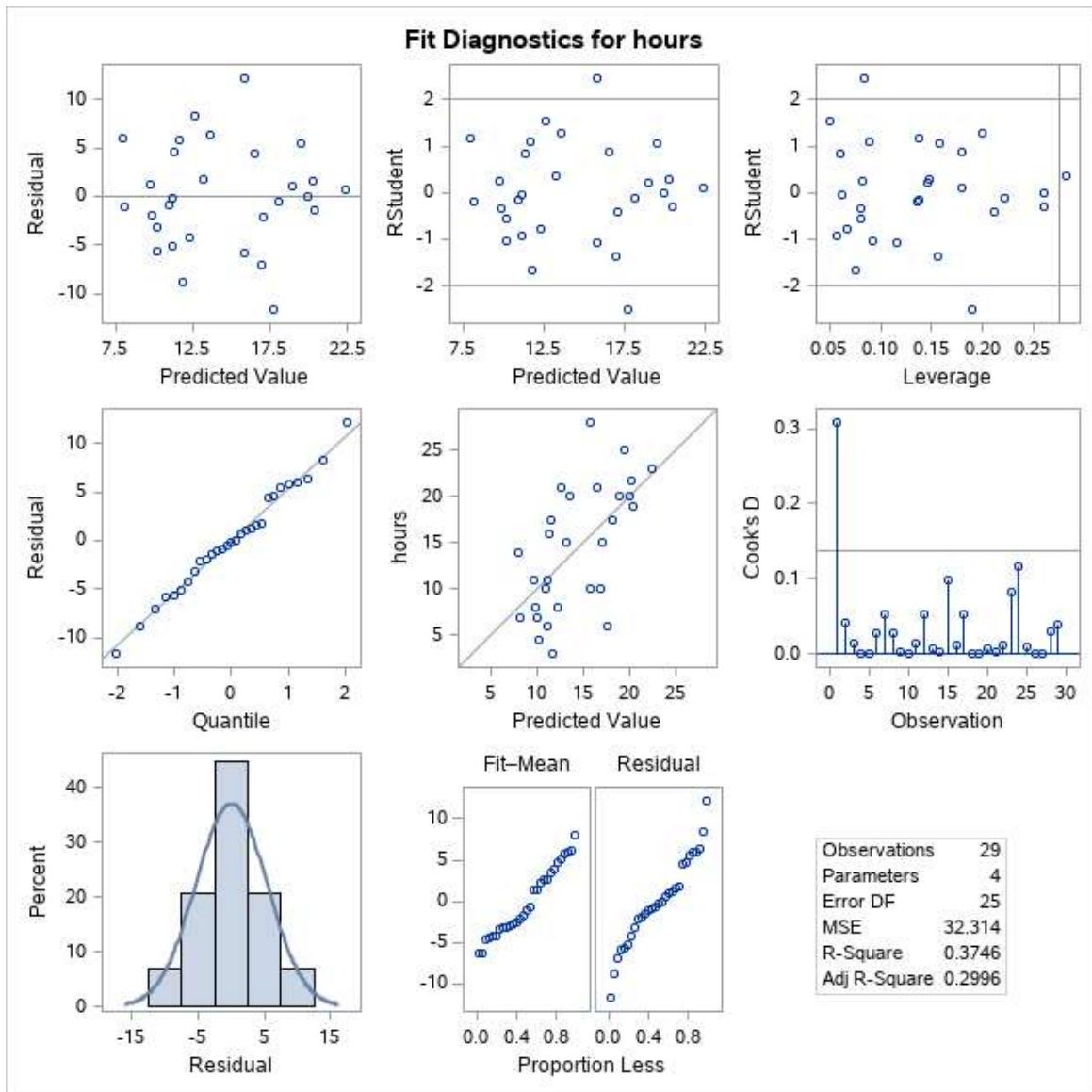
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	483.87390	161.29130	4.99	0.0075
Error	25	807.83964	32.31359		
Corrected Total	28	1291.71354			

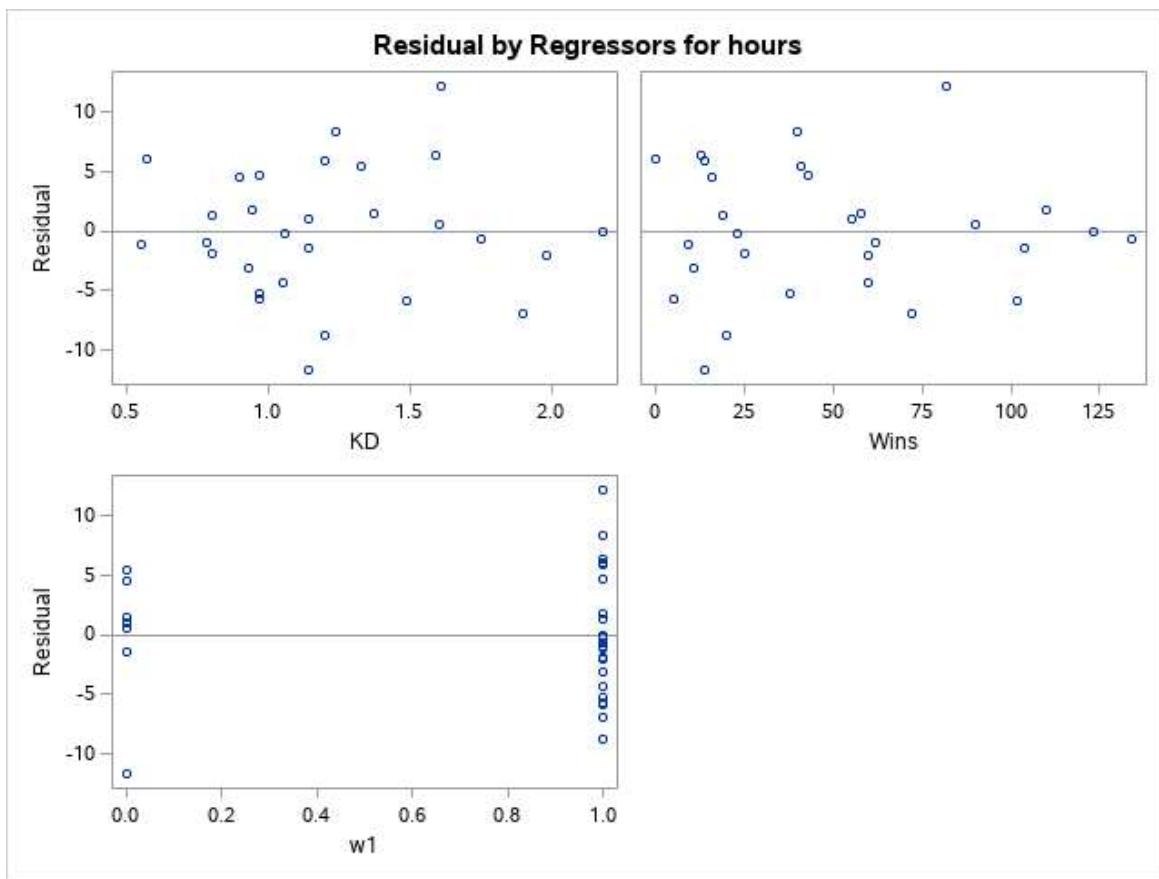
Root MSE	5.68450	R-Square	0.3746
Dependent Mean	14.31862	Adj R-Sq	0.2996
Coeff Var	39.70008		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11.41774	3.90893	2.92	0.0073
KD	1	5.14063	3.27460	1.57	0.1290
Wins	1	0.03043	0.03497	0.87	0.3925
w1	1	-6.38555	2.47196	-2.58	0.0160

Histogram

The REG Procedure
 Model: MODEL1
 Dependent Variable: hours





Histogram

The REG Procedure
Model: MODEL1

Test test1 Results for Dependent Variable hours				
Source	DF	Mean Square	F Value	Pr > F
Numerator	2	123.21249	3.81	0.0359
Denominator	25	32.31359		

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: hours

Number of Observations Read	29
Number of Observations Used	29

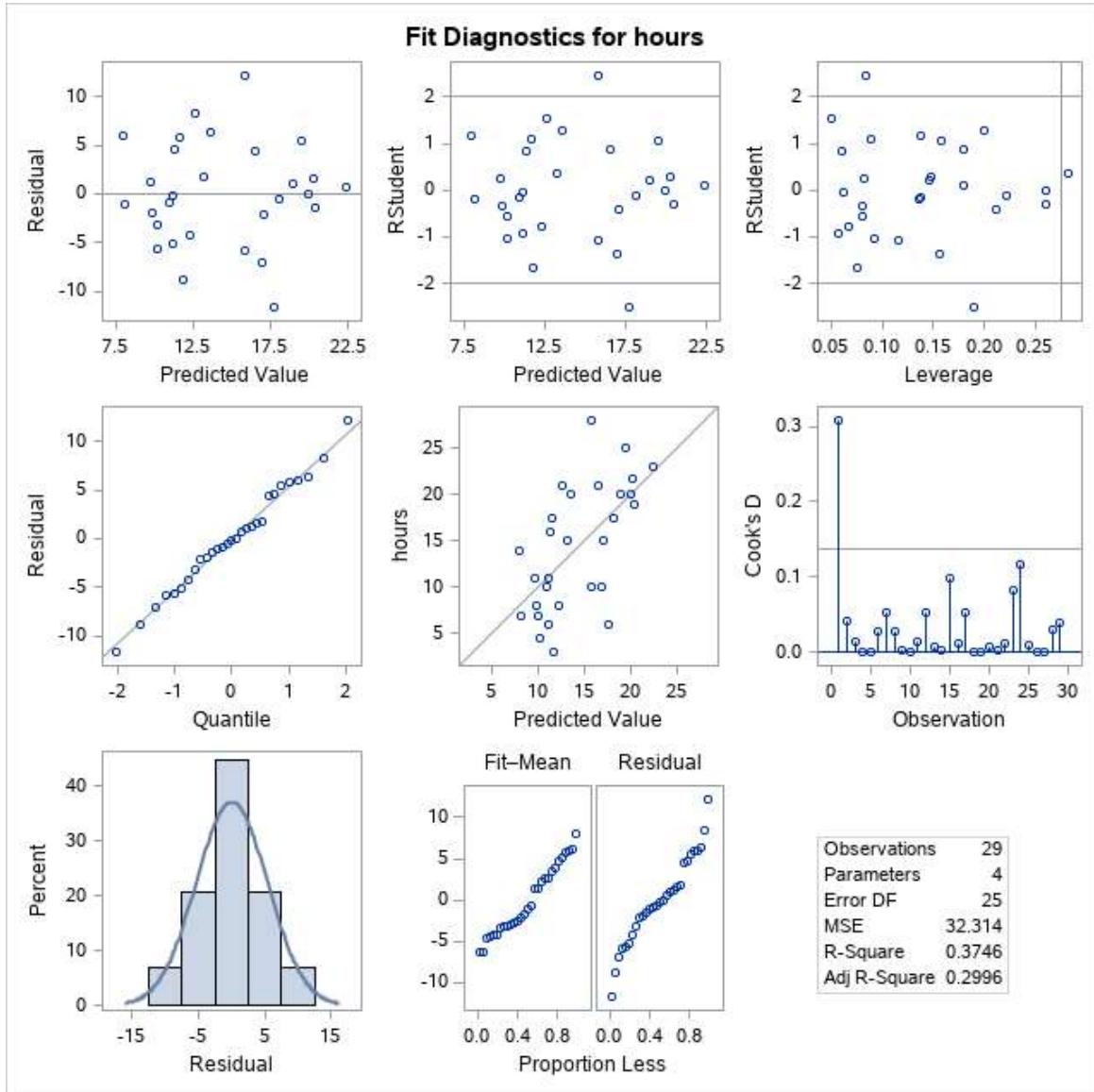
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	483.87390	161.29130	4.99	0.0075
Error	25	807.83964	32.31359		
Corrected Total	28	1291.71354			

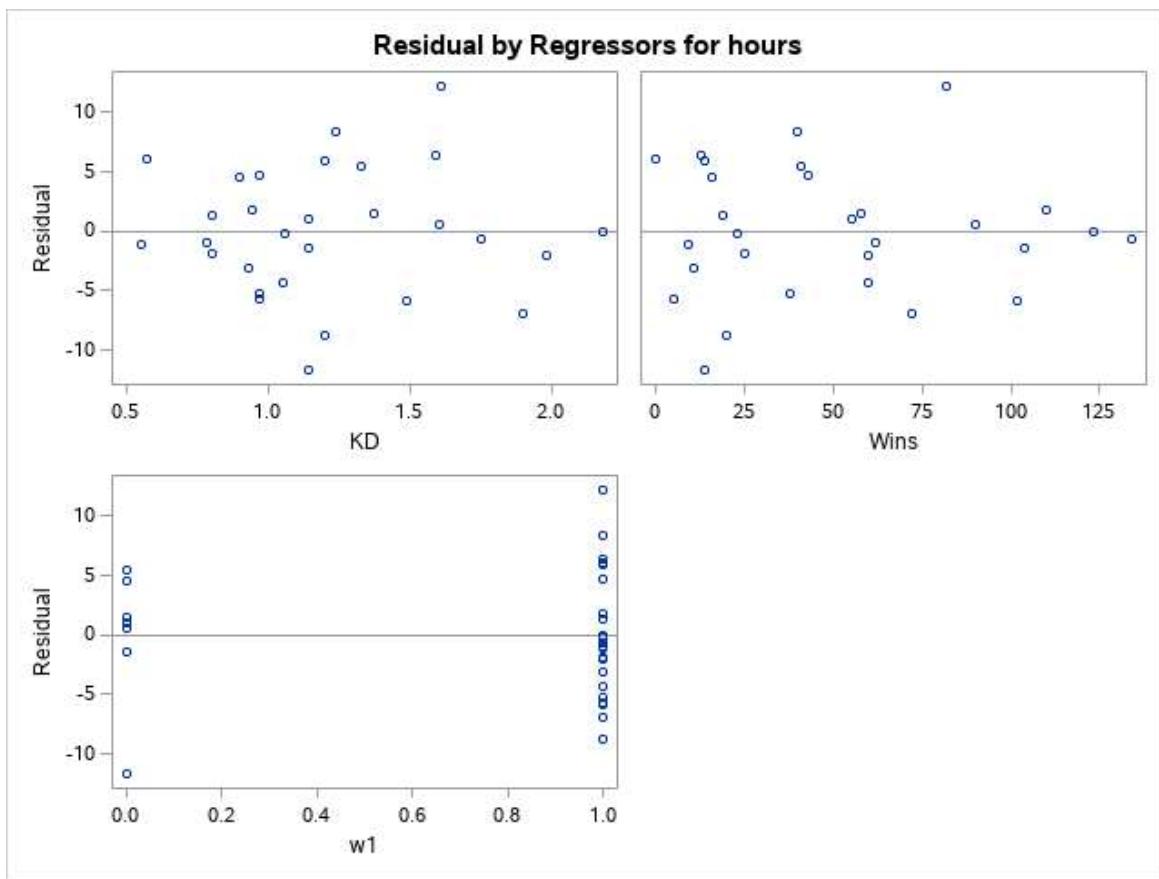
Root MSE	5.68450	R-Square	0.3746
Dependent Mean	14.31862	Adj R-Sq	0.2996
Coeff Var	39.70008		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11.41774	3.90893	2.92	0.0073
KD	1	5.14063	3.27460	1.57	0.1290
Wins	1	0.03043	0.03497	0.87	0.3925
w1	1	-6.38555	2.47196	-2.58	0.0160

Histogram

The REG Procedure
Model: MODEL1
Dependent Variable: hours





Histogram

The REG Procedure
Model: MODEL1

Test test1 Results for Dependent Variable hours				
Source	DF	Mean Square	F Value	Pr > F
Numerator	1	24.47014	0.76	0.3925
Denominator	25	32.31359		

Histogram

The GLM Procedure

Number of Observations Read	29
Number of Observations Used	29

Histogram

The GLM Procedure

Dependent Variable: hours

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	459.403760	229.701880	7.18	0.0033
Error	26	832.309784	32.011915		
Corrected Total	28	1291.713545			

R-Square	Coeff Var	Root MSE	hours Mean
0.355655	39.51433	5.657907	14.31862

Source	DF	Type I SS	Mean Square	F Value	Pr > F
KD	1	234.3810981	234.3810981	7.32	0.0119
w1	1	225.0226623	225.0226623	7.03	0.0135

Source	DF	Type III SS	Mean Square	F Value	Pr > F
KD	1	221.9548467	221.9548467	6.93	0.0141
w1	1	225.0226623	225.0226623	7.03	0.0135

Parameter	Estimate	Standard Error	t Value	Pr > t
Intercept	10.94987136	3.85366594	2.84	0.0086
KD	6.85509286	2.60337573	2.63	0.0141
w1	-6.51194471	2.45614160	-2.65	0.0135

