

```

GET
  FILE='H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w_b	C	Threedays	SevenDays
Pearson Correlation	Knat	1.000	.591	-.735	.265	.020
	w_b	.591	1.000	-.410	.000	.000
	C	-.735	-.410	1.000	.000	.000
	Threedays	.265	.000	.000	1.000	-.500

Sig. (1-tailed)	SevenDays	.020	.000	.000	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
	Knat	.	.000	.000	.000	.396
	w_b	.000	.	.000	.500	.500
	C	.000	.000	.	.500	.500
	Threedays	.000	.500	.500	.	.000
	SevenDays	.396	.500	.500	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
	Knat	.180	.180	.180	.180	.180
	w_b	.180	.180	.180	.180	.180
	C	.180	.180	.180	.180	.180
	Threedays	.180	.180	.180	.180	.180
	SevenDays	.180	.180	.180	.180	.180
N	OutdoorSheltered	.180	.180	.180	.180	.180
	OutdoorExposed	.180	.180	.180	.180	.180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	w_b	.000	.000
	C	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
	Knat	.000	.000
	w_b	.500	.500
	C	.500	.500
Sig. (1-tailed)	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
	Knat	.180	.180
N	w_b	.180	.180
	C	.180	.180
	Threedays	.180	.180

SevenDays	180	180
OutdoorSheltered	180	180
OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.930 ^a	.864	.860	1.39902	1.412

a. Predictors: (Constant), OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2156.707	6	359.451	183.650	.000 ^b
	Residual	338.605	173	1.957		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	5.625	.729		7.721	.000
	w_b	10.010	.884	.348	11.321	.000
	C	-.023	.001	-.592	-19.294	.000
	Threedays	2.898	.255	.367	11.346	.000
	SevenDays	1.606	.255	.203	6.286	.000
	OutdoorSheltered	1.066	.255	.135	4.174	.000
	OutdoorExposed	-2.069	.255	-.262	-8.100	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	4.187	7.063			
	w_b	8.265	11.755	.591	.652	.317
	C	-.026	-.021	-.735	-.826	-.540
	Threedays	2.394	3.402	.265	.653	.318
	SevenDays	1.102	2.110	.020	.431	.176
	OutdoorSheltered	.562	1.570	.266	.302	.117
	OutdoorExposed	-2.573	-1.565	-.329	-.524	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.832	1.202
	C	.832	1.202
	Threedays	.750	1.333
	SevenDays	.750	1.333
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	C	Threedays
1	1	4.301	1.000	.00	.00	.00	.01
	2	1.000	2.074	.00	.00	.00	.20
	3	1.000	2.074	.00	.00	.00	.05
	4	.333	3.592	.00	.00	.00	.38
	5	.235	4.274	.01	.01	.09	.34
	6	.116	6.089	.01	.16	.43	.01
	7	.014	17.728	.99	.83	.48	.01

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		SevenDays	OutdoorSheltered	OutdoorExposed
1	1	.01	.01	.01
	2	.20	.05	.05
	3	.05	.20	.20
	4	.38	.37	.37
	5	.34	.34	.34
	6	.01	.01	.01
	7	.01	.01	.01

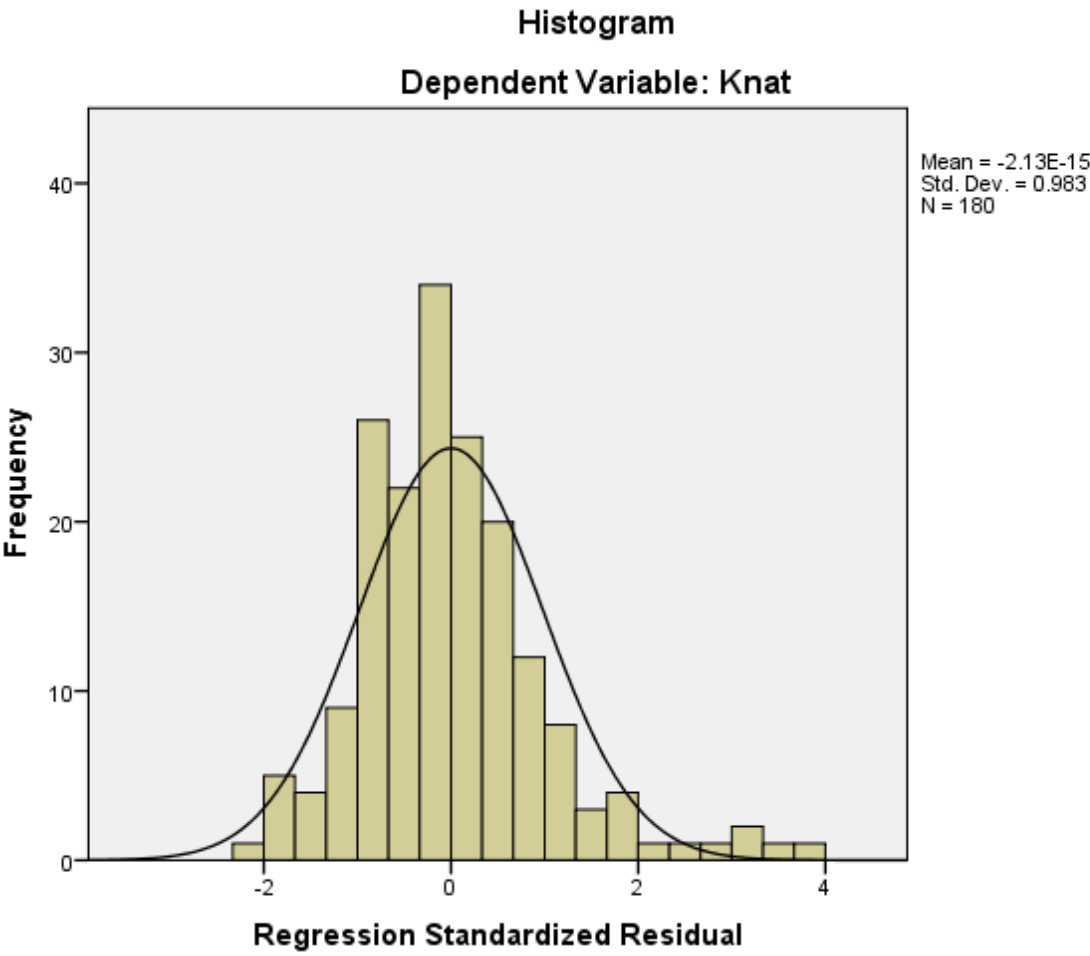
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.8998	14.3074	6.3209	3.47112	180
Residual	-2.92577	5.29244	.00000	1.37537	180
Std. Predicted Value	-2.656	2.301	.000	1.000	180
Std. Residual	-2.091	3.783	.000	.983	180

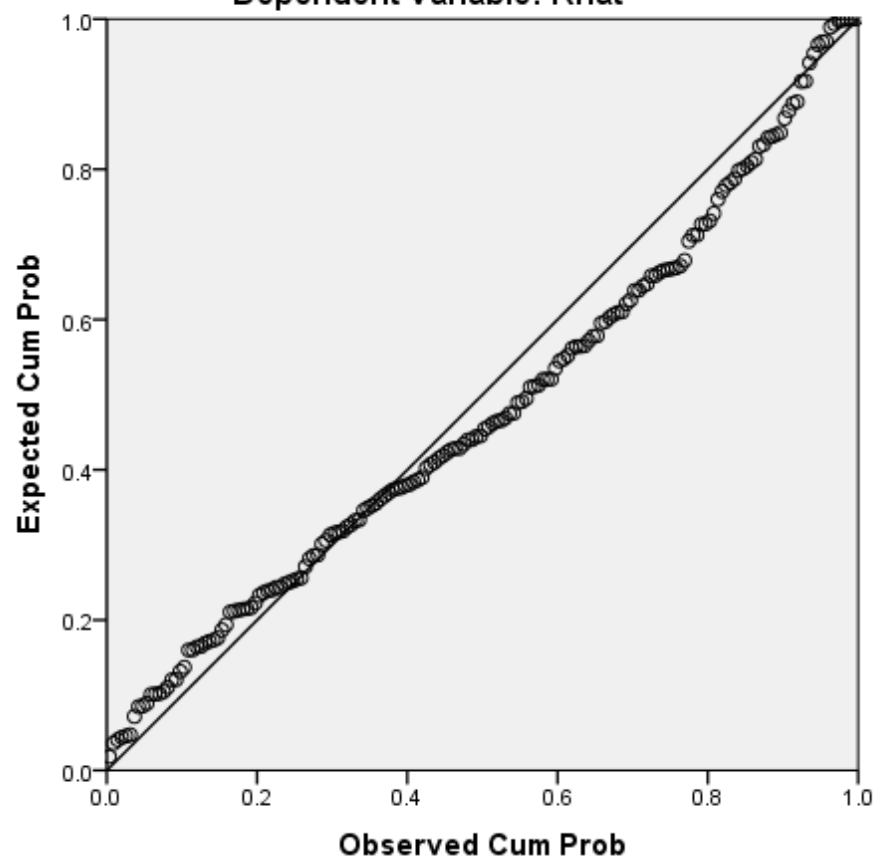
a. Dependent Variable: Knat

Charts



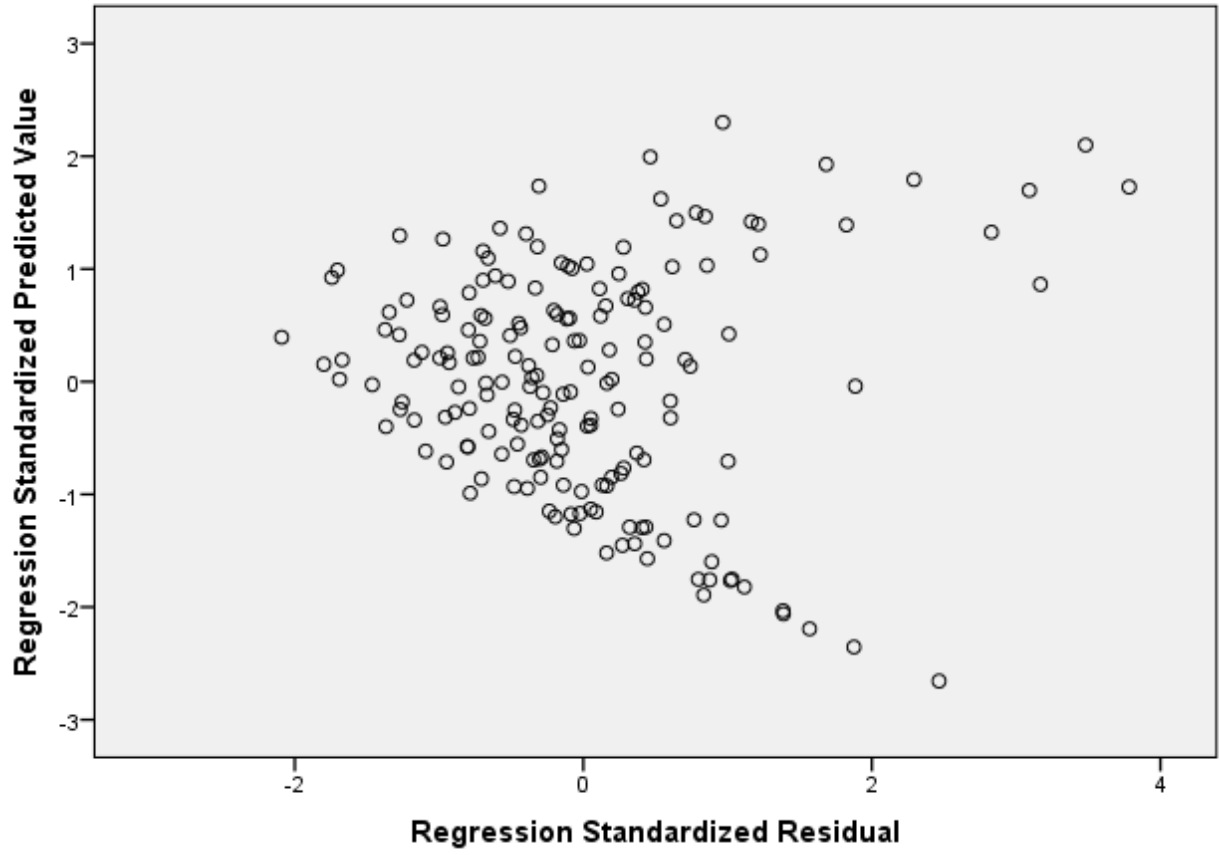
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

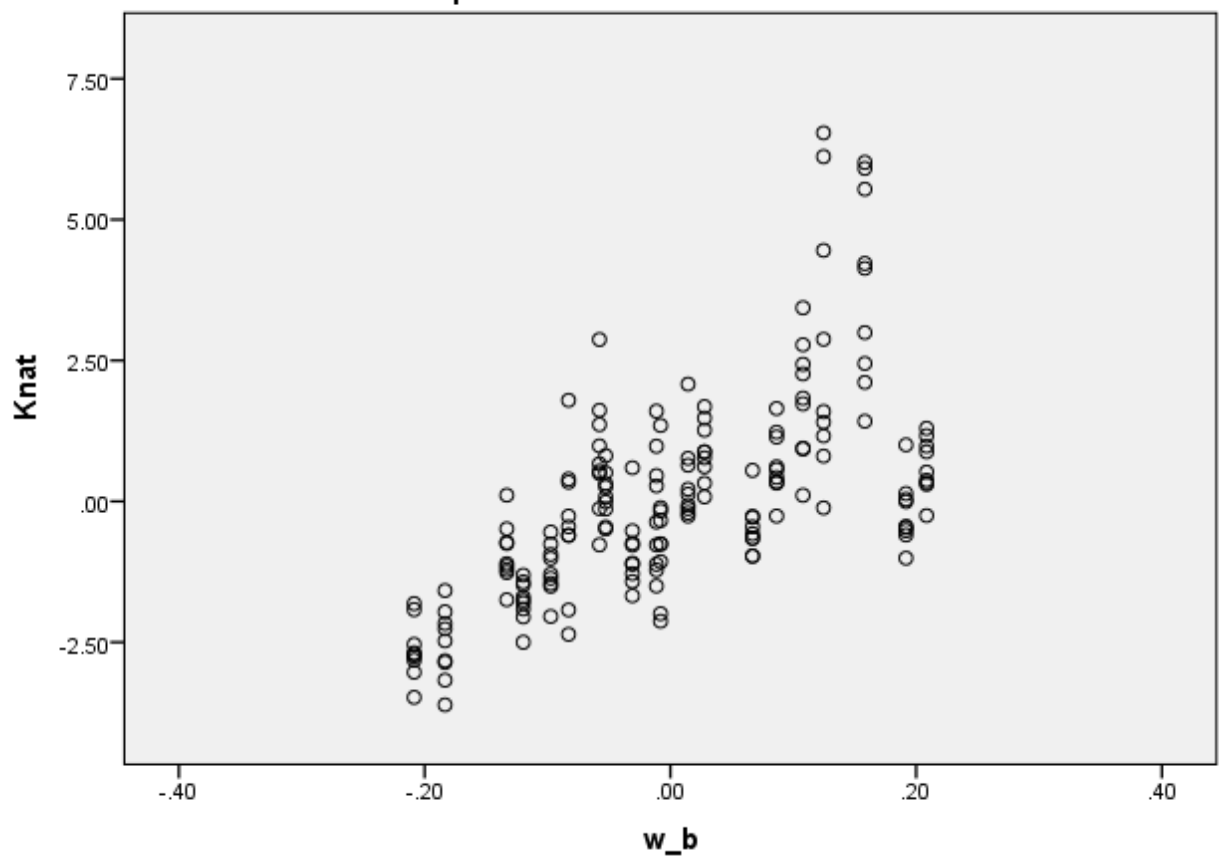


Scatterplot

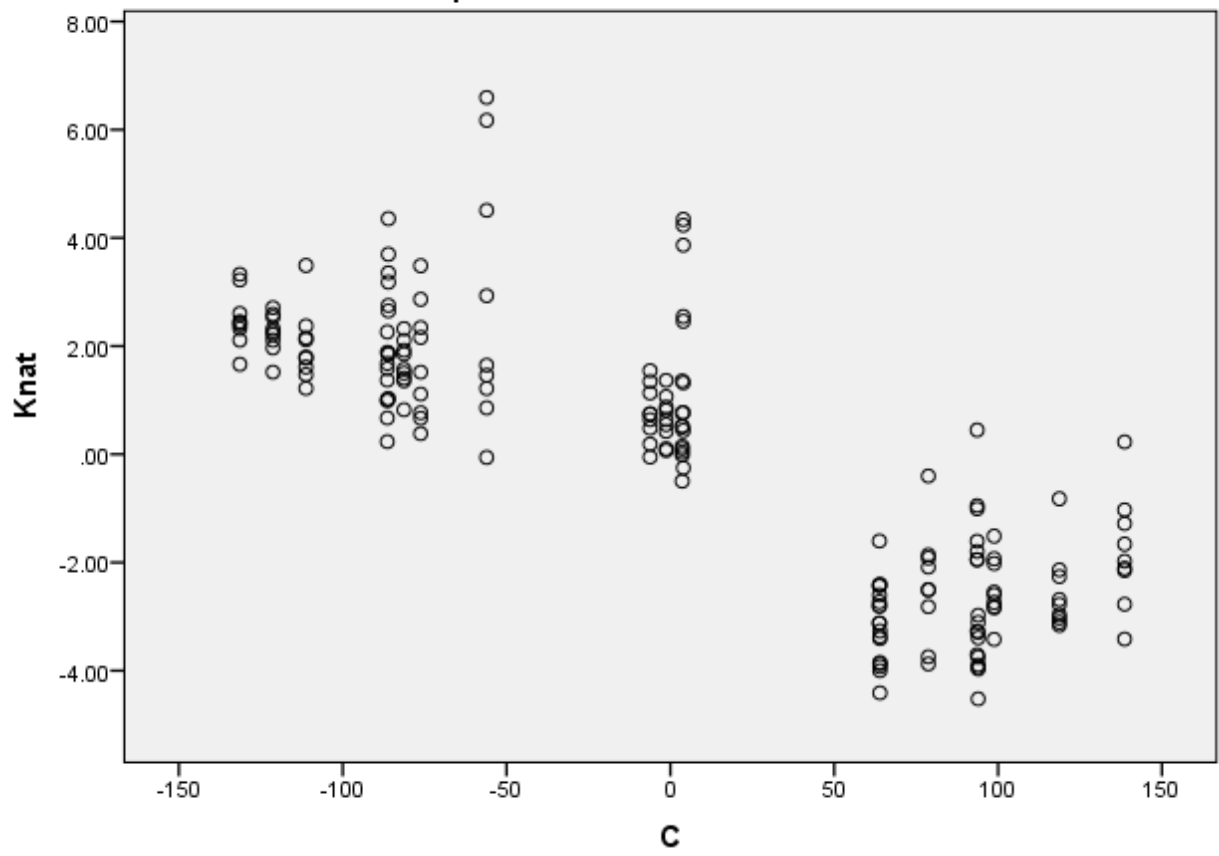
Dependent Variable: Knat



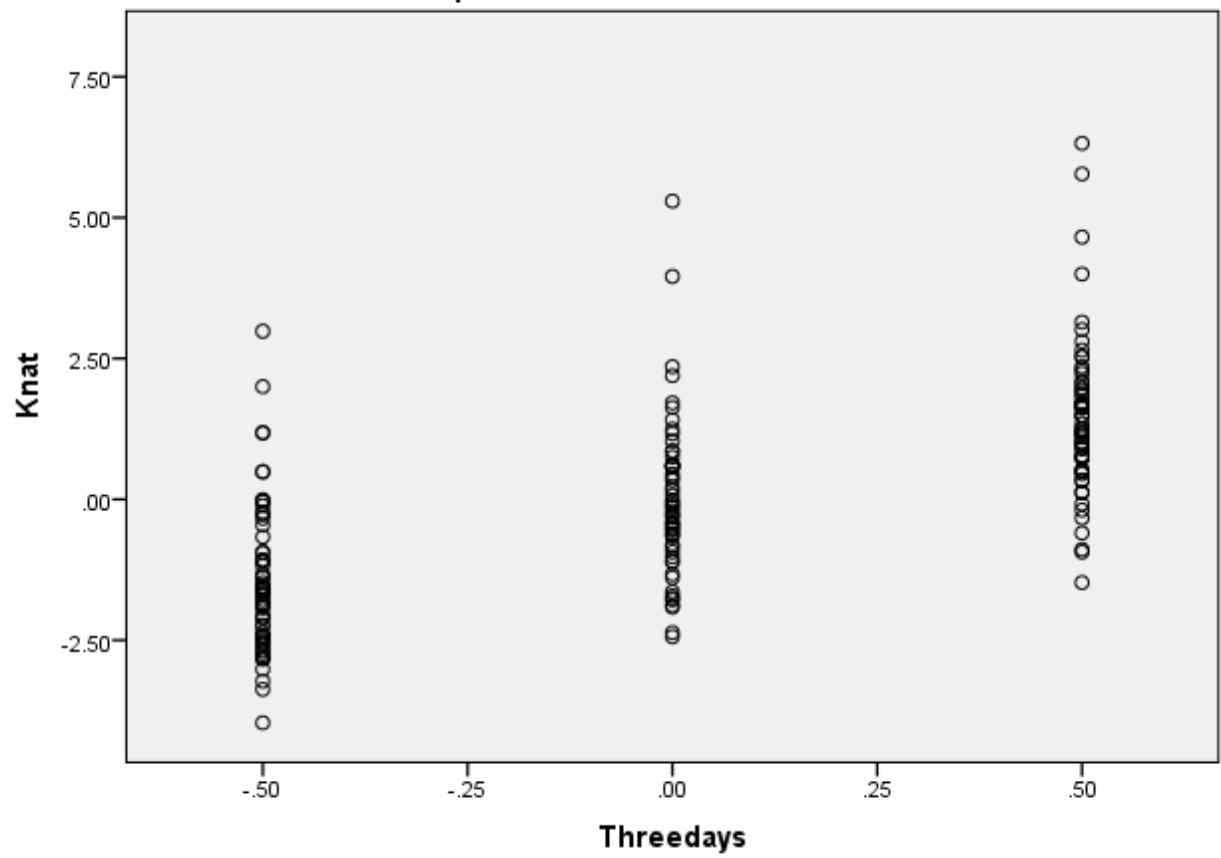
Partial Regression Plot
Dependent Variable: Knat



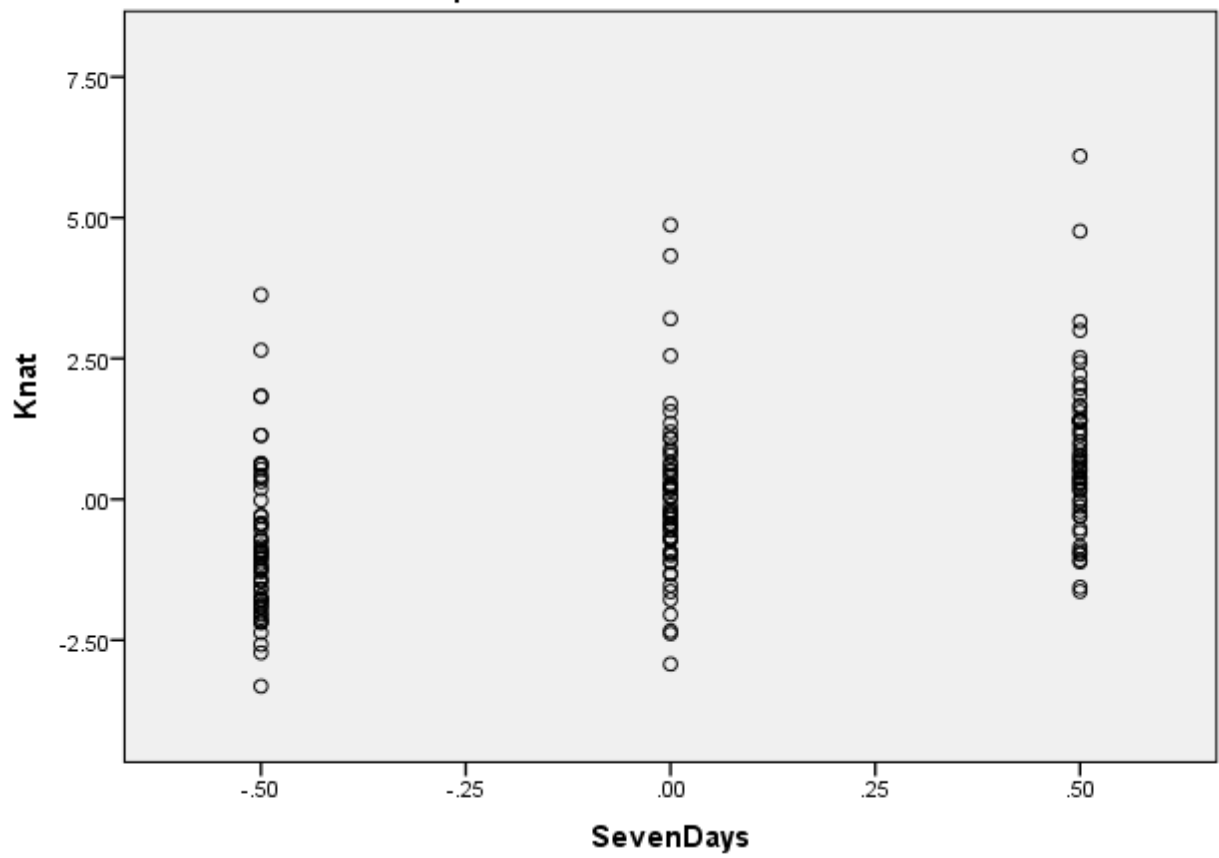
Partial Regression Plot
Dependent Variable: Knat



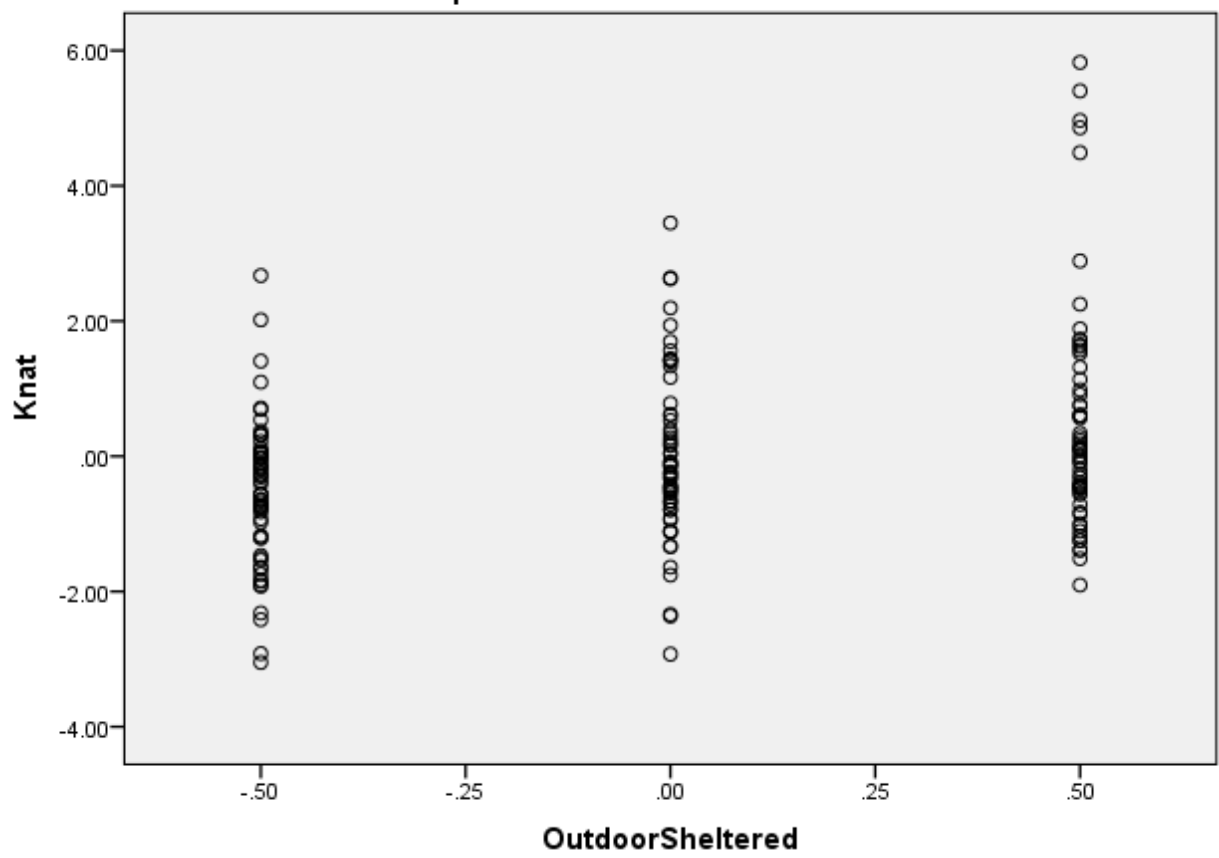
Partial Regression Plot
Dependent Variable: Knat

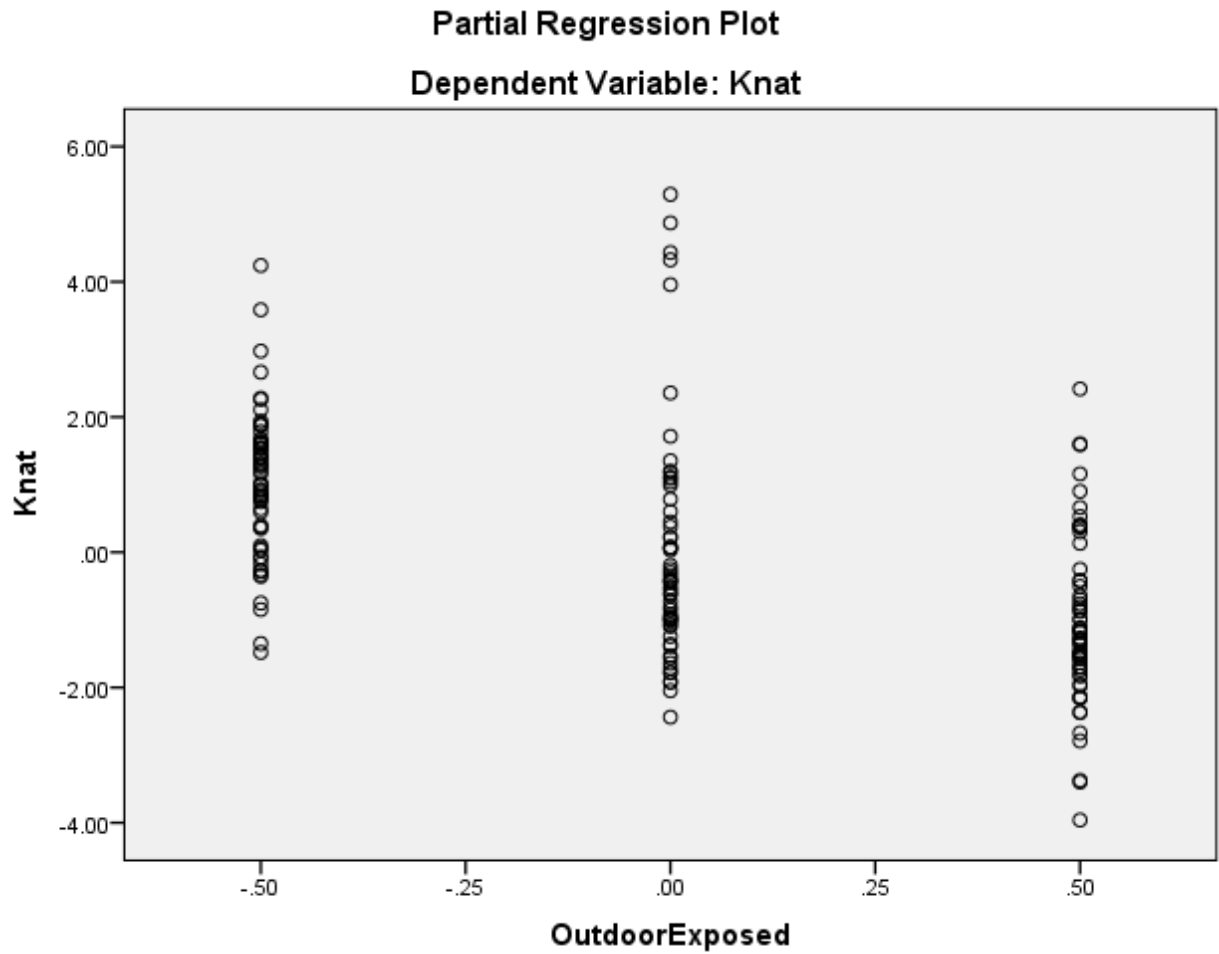


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C fc Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
fc	35.8872	18.56530	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w_b	C	fc	Threedays
Pearson Correlation	Knat	1.000	.591	-.735	-.777	.265
	w_b	.591	1.000	-.410	-.600	.000
	C	-.735	-.410	1.000	.647	.000
	fc	-.777	-.600	.647	1.000	-.437
	Threedays	.265	.000	.000	-.437	1.000
	SevenDays	.020	.000	.000	-.116	-.500
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	w_b	.000	.	.000	.000	.500
	C	.000	.000	.	.000	.500
	fc	.000	.000	.000	.	.000
	Threedays	.000	.500	.500	.000	.
	SevenDays	.396	.500	.500	.060	.000
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	w_b	180	180	180	180	180

C	180	180	180	180	180
fc	180	180	180	180	180
Threedays	180	180	180	180	180
SevenDays	180	180	180	180	180
OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		SevenDays	OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.020	.266	-.329
	w_b	.000	.000	.000
	C	.000	.000	.000
	fc	-.116	.000	.000
	Threedays	-.500	.000	.000
	SevenDays	1.000	.000	.000
	OutdoorSheltered	.000	1.000	-.500
	OutdoorExposed	.000	-.500	1.000
Sig. (1-tailed)	Knat	.396	.000	.000
	w_b	.500	.500	.500
	C	.500	.500	.500
	fc	.060	.500	.500
	Threedays	.000	.500	.500
	SevenDays	.	.500	.500
	OutdoorSheltered	.500	.	.000
	OutdoorExposed	.500	.000	.
N	Knat	180	180	180
	w_b	180	180	180
	C	180	180	180
	fc	180	180	180
	Threedays	180	180	180
	SevenDays	180	180	180
	OutdoorSheltered	180	180	180
	OutdoorExposed	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered, fc ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.930 ^a	.864	.859	1.40300	1.415

a. Predictors: (Constant), OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered, fc

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2156.744	7	308.106	156.525	.000 ^b
	Residual	338.568	172	1.968		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, C, w_b, Threedays, OutdoorSheltered, fc

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		

1	(Constant)	5.762	1.241		4.642	.000
	w_b	9.874	1.333	.343	7.407	.000
	C	-.023	.002	-.587	-11.344	.000
	fc	-.002	.017	-.012	-.137	.891
	Threedays	2.837	.517	.359	5.491	.000
	SevenDays	1.564	.397	.198	3.941	.000
	OutdoorSheltered	1.066	.256	.135	4.162	.000
	OutdoorExposed	-2.069	.256	-.262	-8.077	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	3.312	8.213			
	w_b	7.242	12.505	.591	.492	.208
	C	-.027	-.019	-.735	-.654	-.319
	fc	-.037	.032	-.777	-.010	-.004
	Threedays	1.817	3.856	.265	.386	.154
	SevenDays	.781	2.348	.020	.288	.111
	OutdoorSheltered	.561	1.572	.266	.302	.117
	OutdoorExposed	-2.574	-1.563	-.329	-.524	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.368	2.717
	C	.295	3.391
	fc	.106	9.391
	Threedays	.184	5.423
	SevenDays	.312	3.201
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w b	C	fc
1	1	5.072	1.000	.00	.00	.00	.00
	2	1.008	2.243	.00	.00	.00	.00
	3	1.000	2.252	.00	.00	.00	.00
	4	.441	3.392	.00	.00	.00	.02
	5	.304	4.084	.00	.00	.01	.00
	6	.141	5.990	.00	.07	.03	.01
	7	.029	13.139	.03	.03	.65	.17
	8	.004	34.683	.96	.90	.31	.80

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions			
		Threedays	SevenDays	OutdoorSheltered	OutdoorExposed
1	1	.00	.00	.01	.01
	2	.07	.09	.00	.00
	3	.00	.00	.25	.25
	4	.07	.18	.00	.00
	5	.01	.01	.67	.67
	6	.07	.09	.06	.06
	7	.12	.09	.01	.01
	8	.66	.53	.00	.00

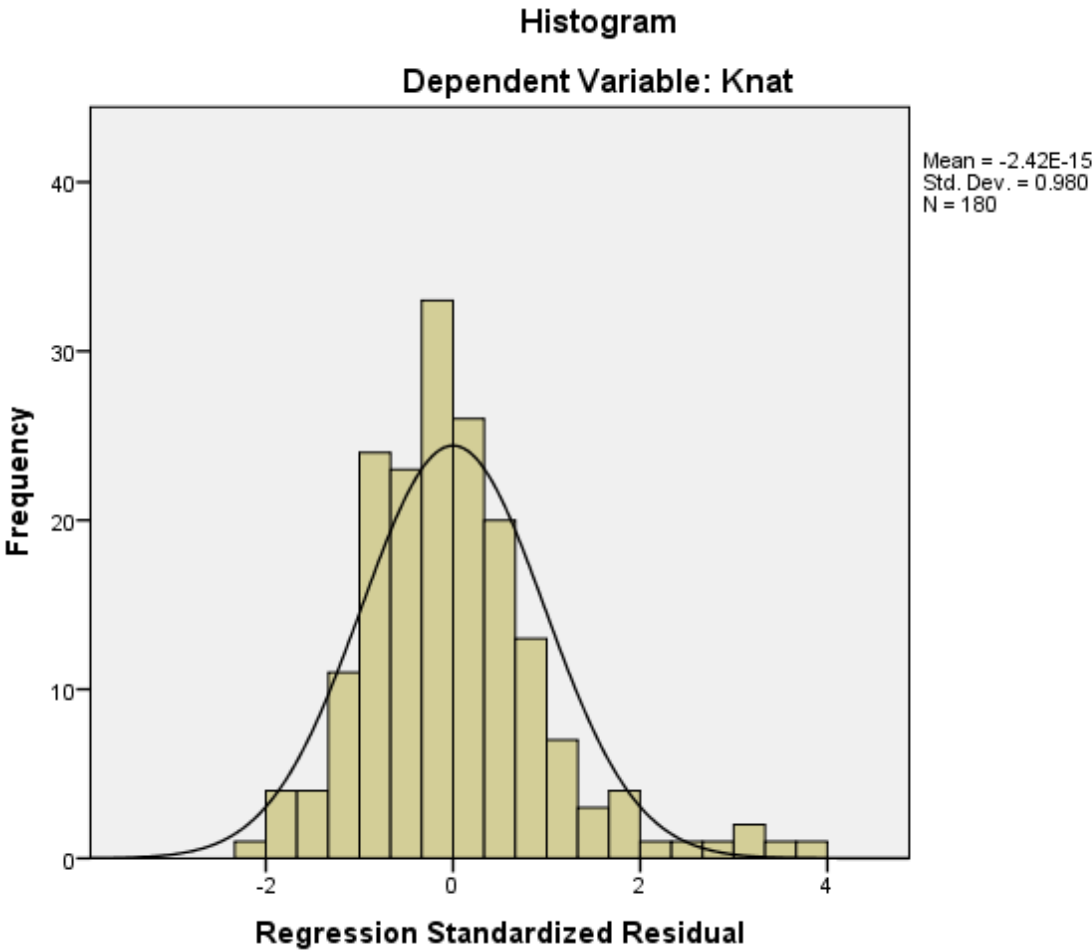
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.8964	14.2857	6.3209	3.47115	180
Residual	-2.90736	5.29519	.00000	1.37530	180
Std. Predicted Value	-2.655	2.295	.000	1.000	180
Std. Residual	-2.072	3.774	.000	.980	180

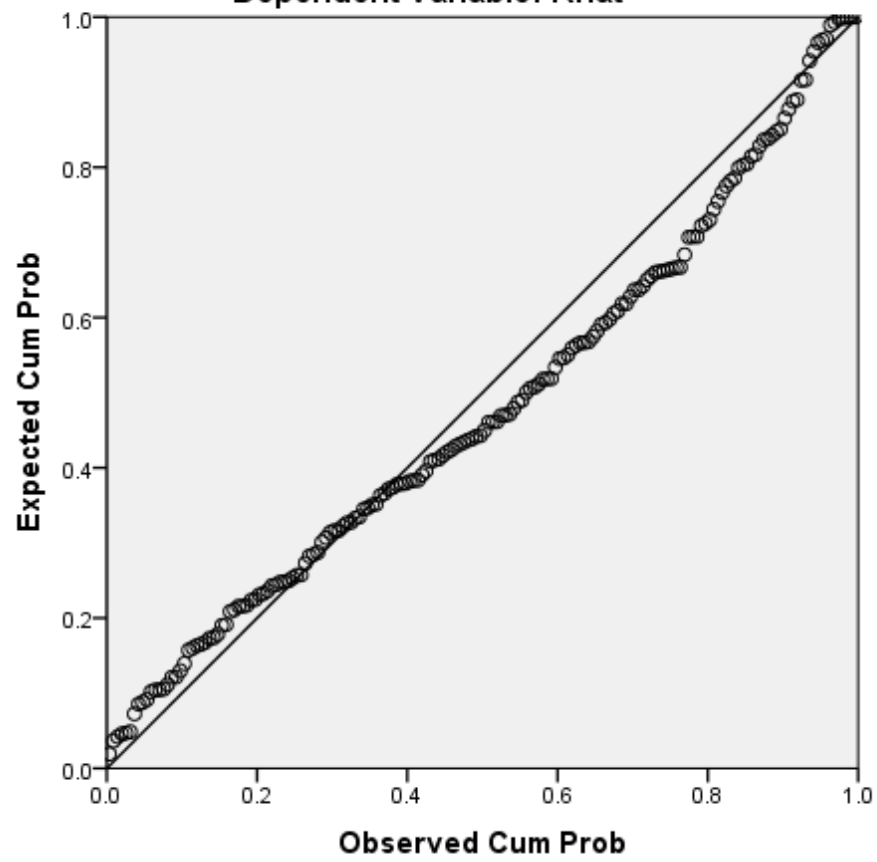
a. Dependent Variable: Knat

Charts



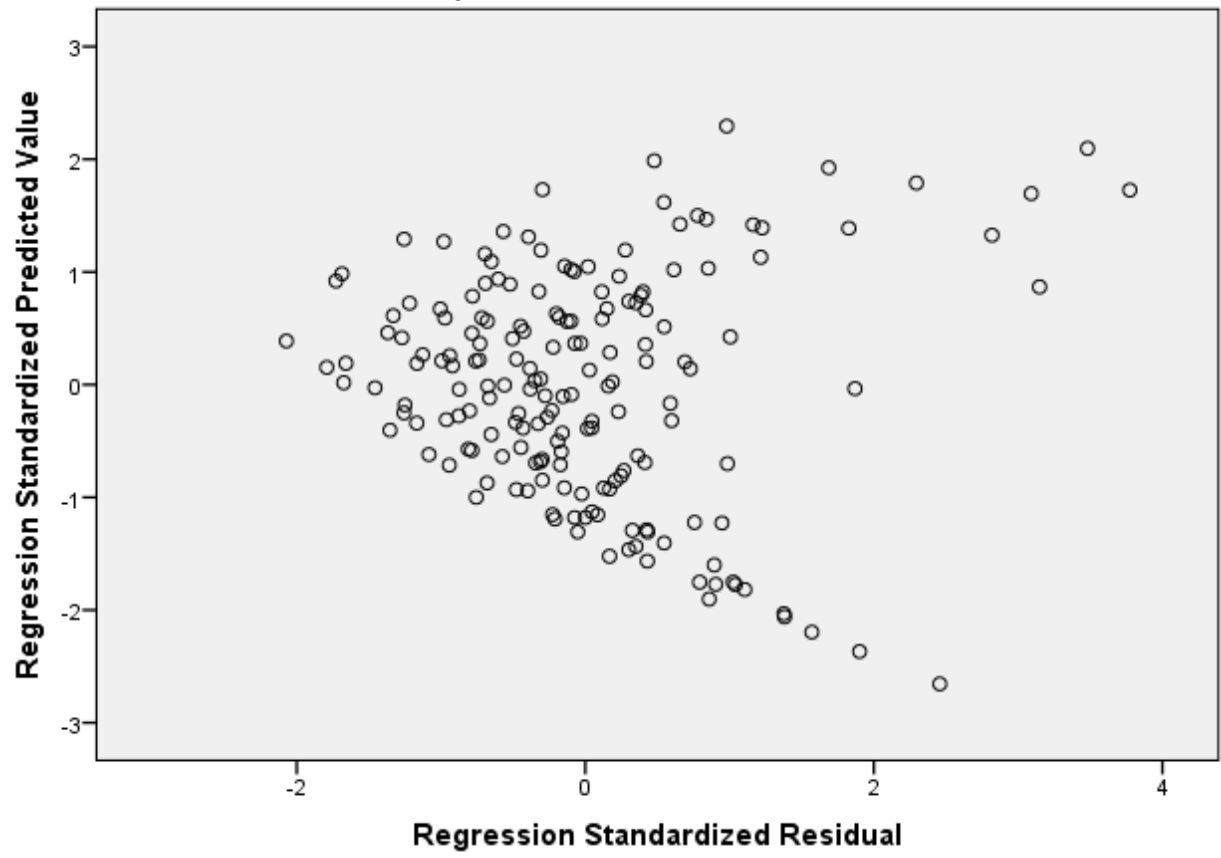
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

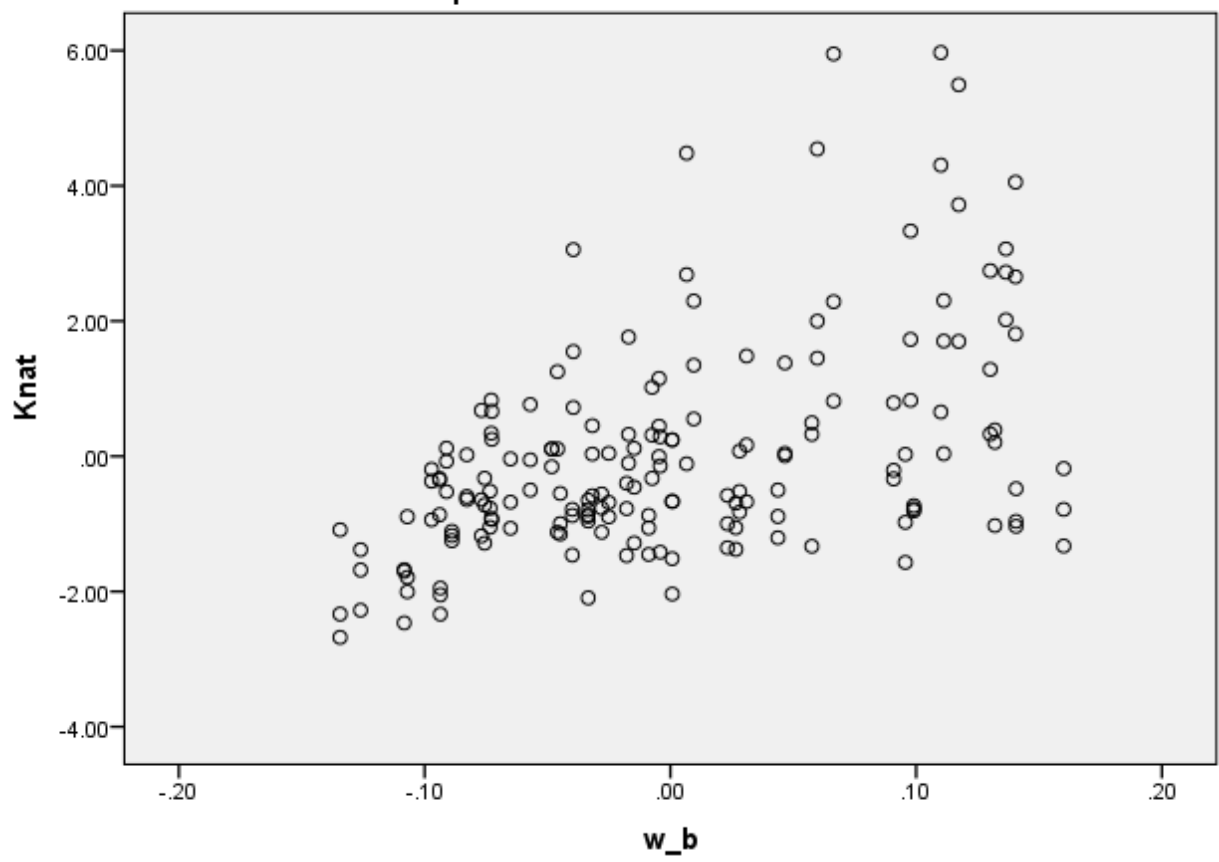


Scatterplot

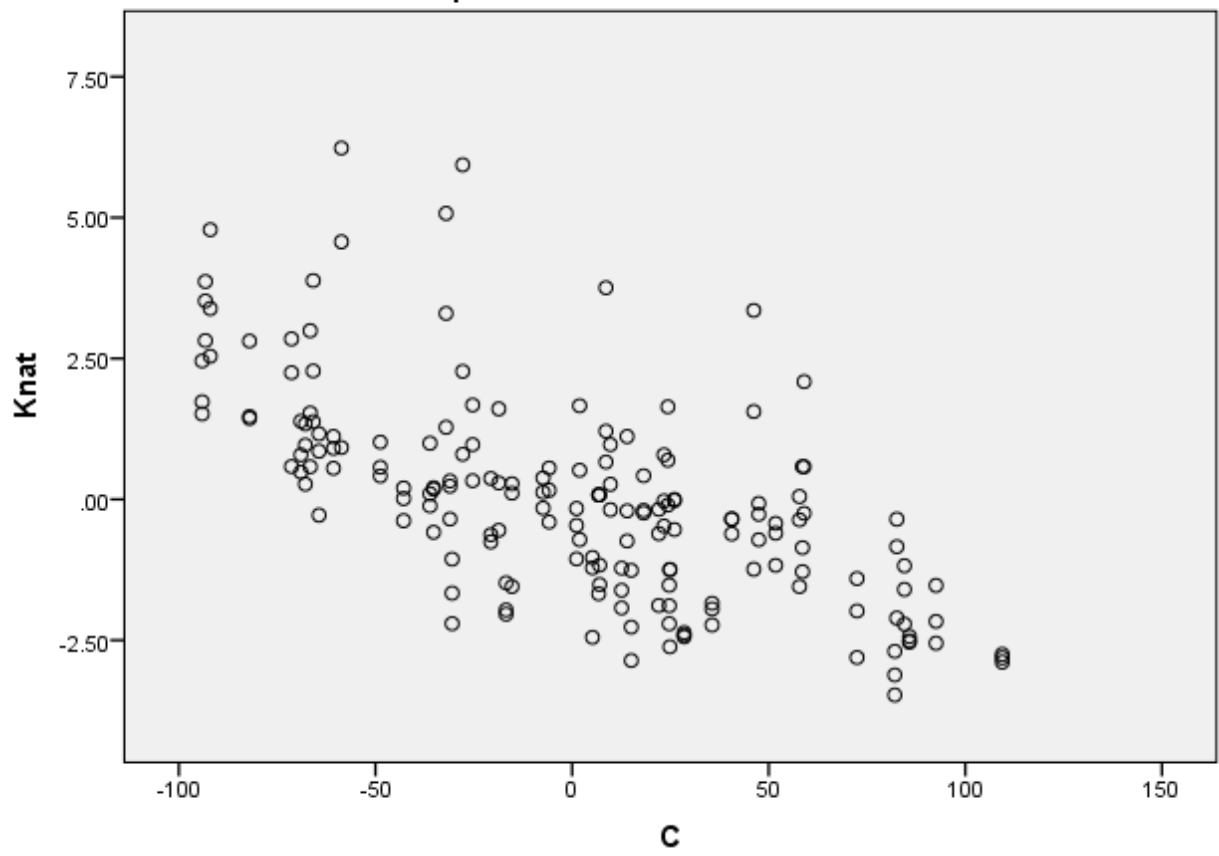
Dependent Variable: Knat



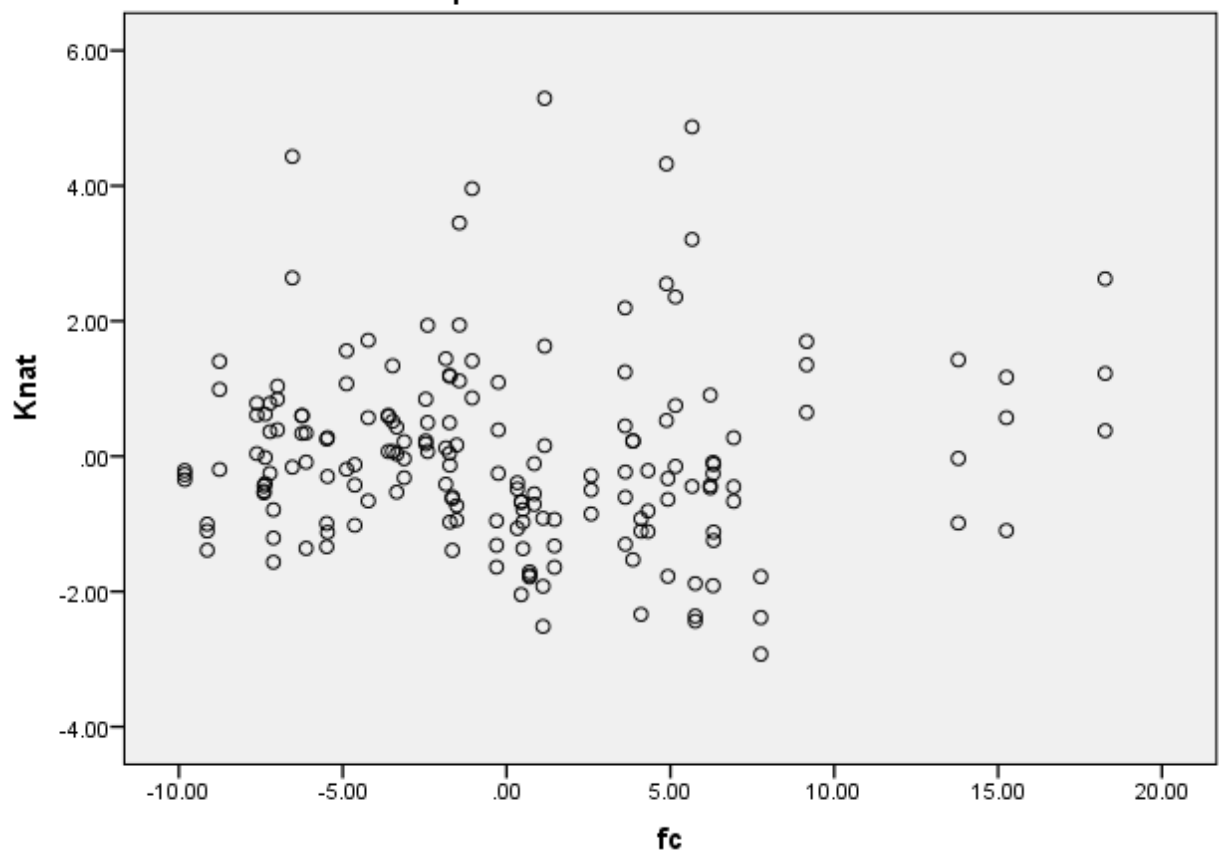
Partial Regression Plot
Dependent Variable: Knat



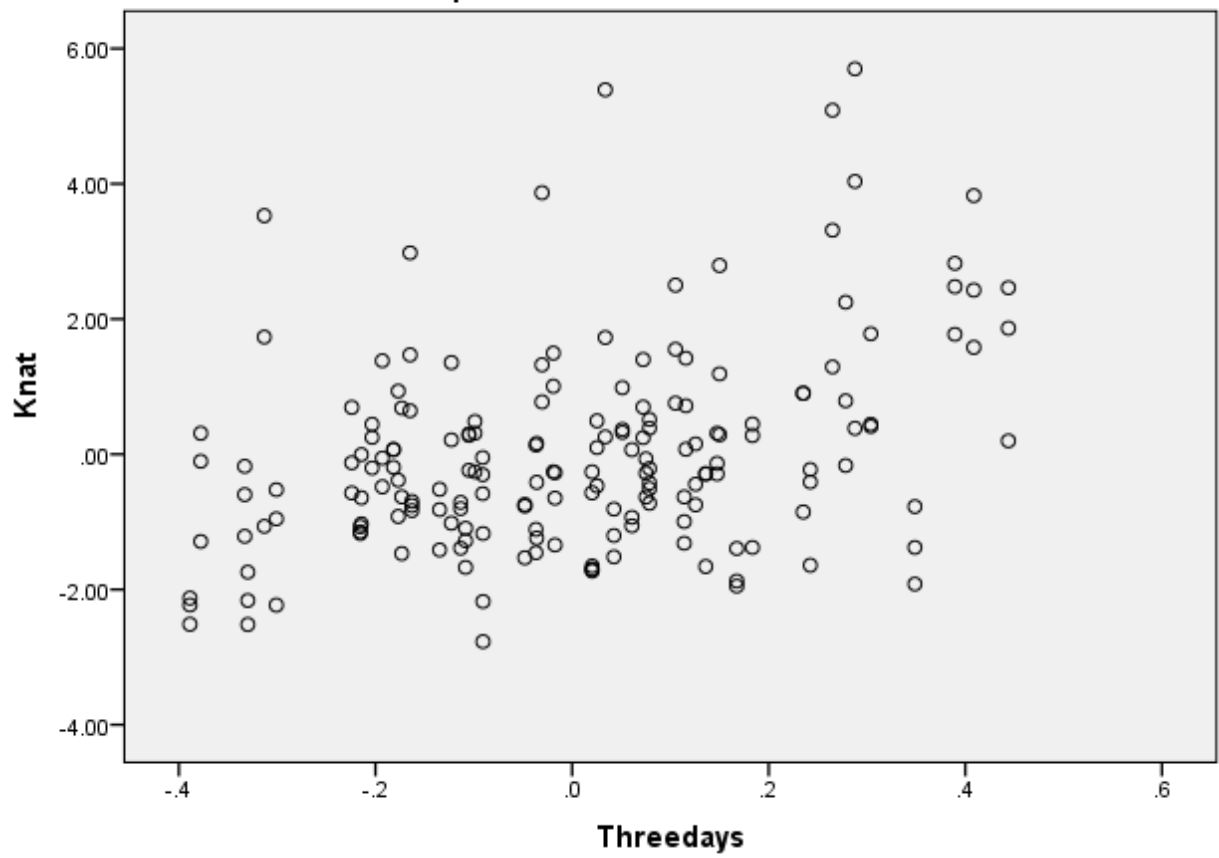
Partial Regression Plot
Dependent Variable: Knat



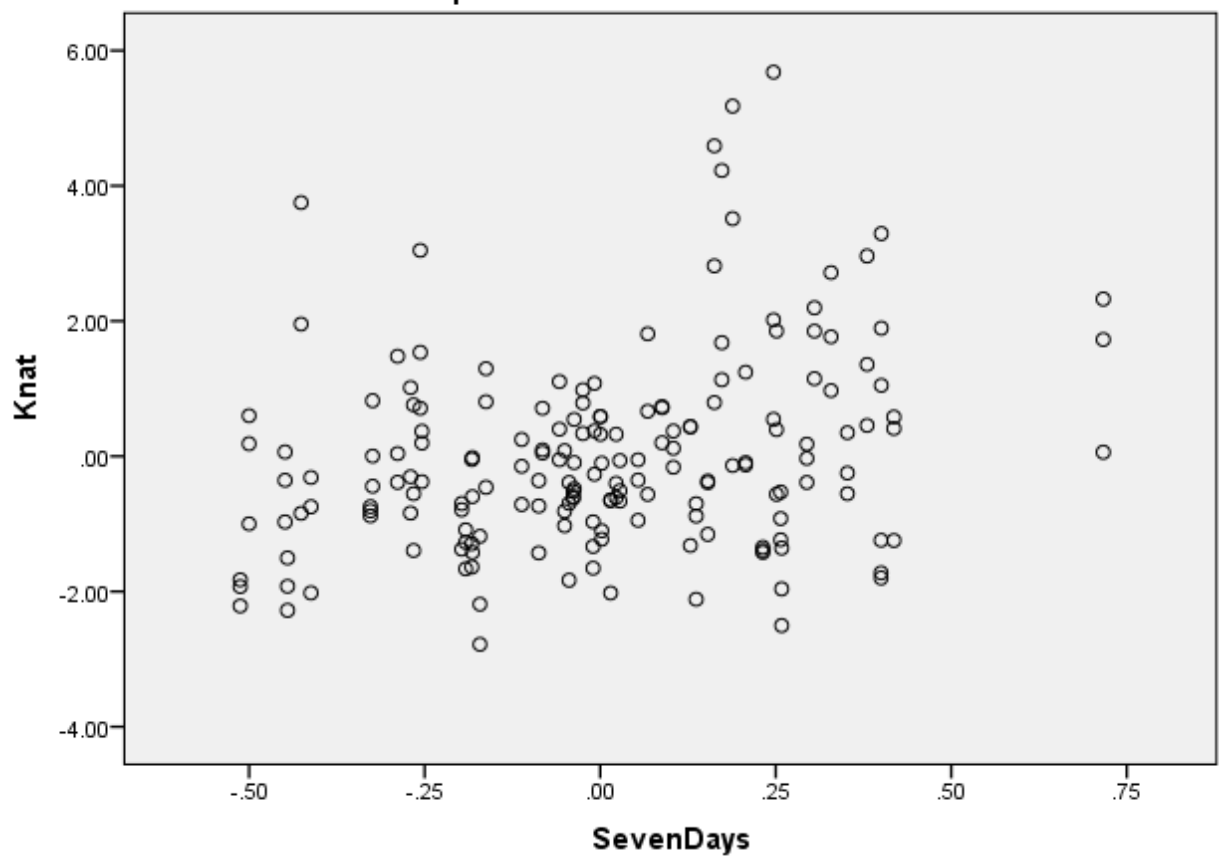
Partial Regression Plot
Dependent Variable: Knat



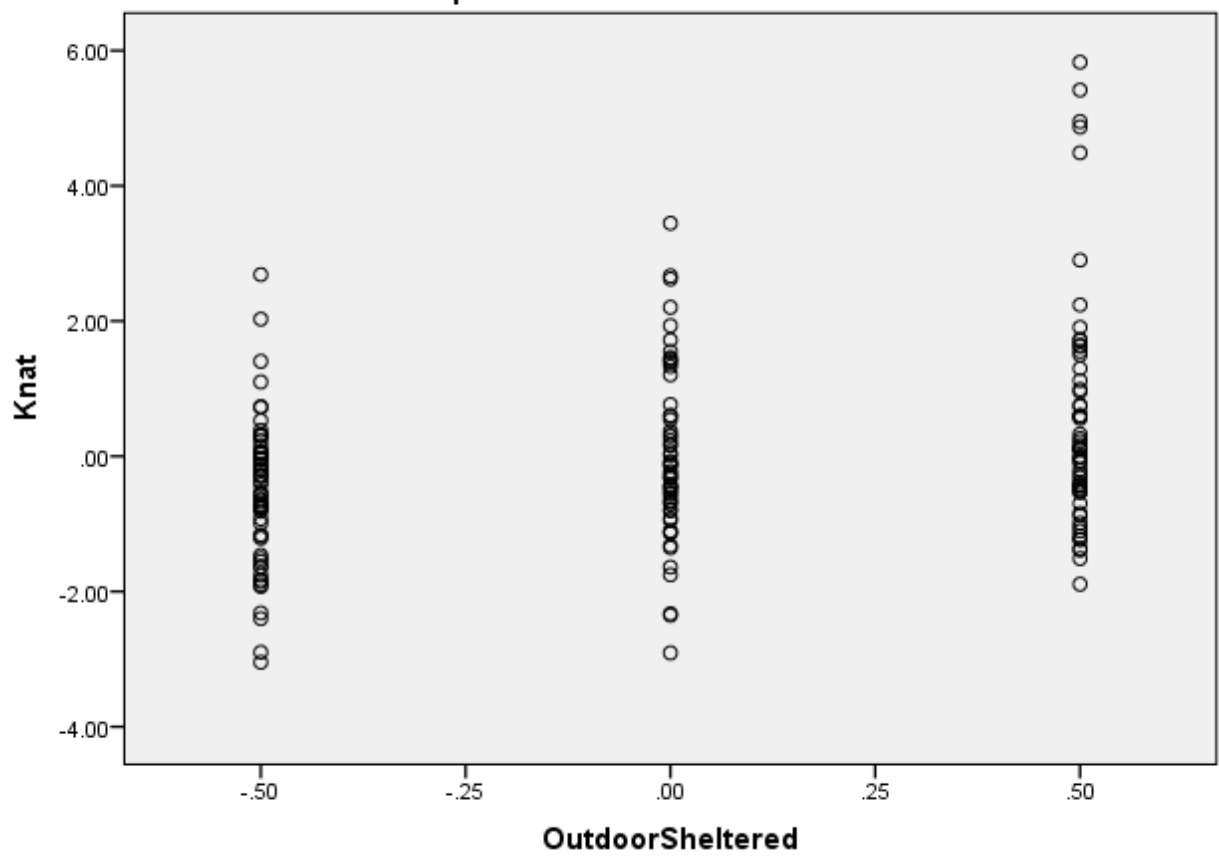
Partial Regression Plot
Dependent Variable: Knat

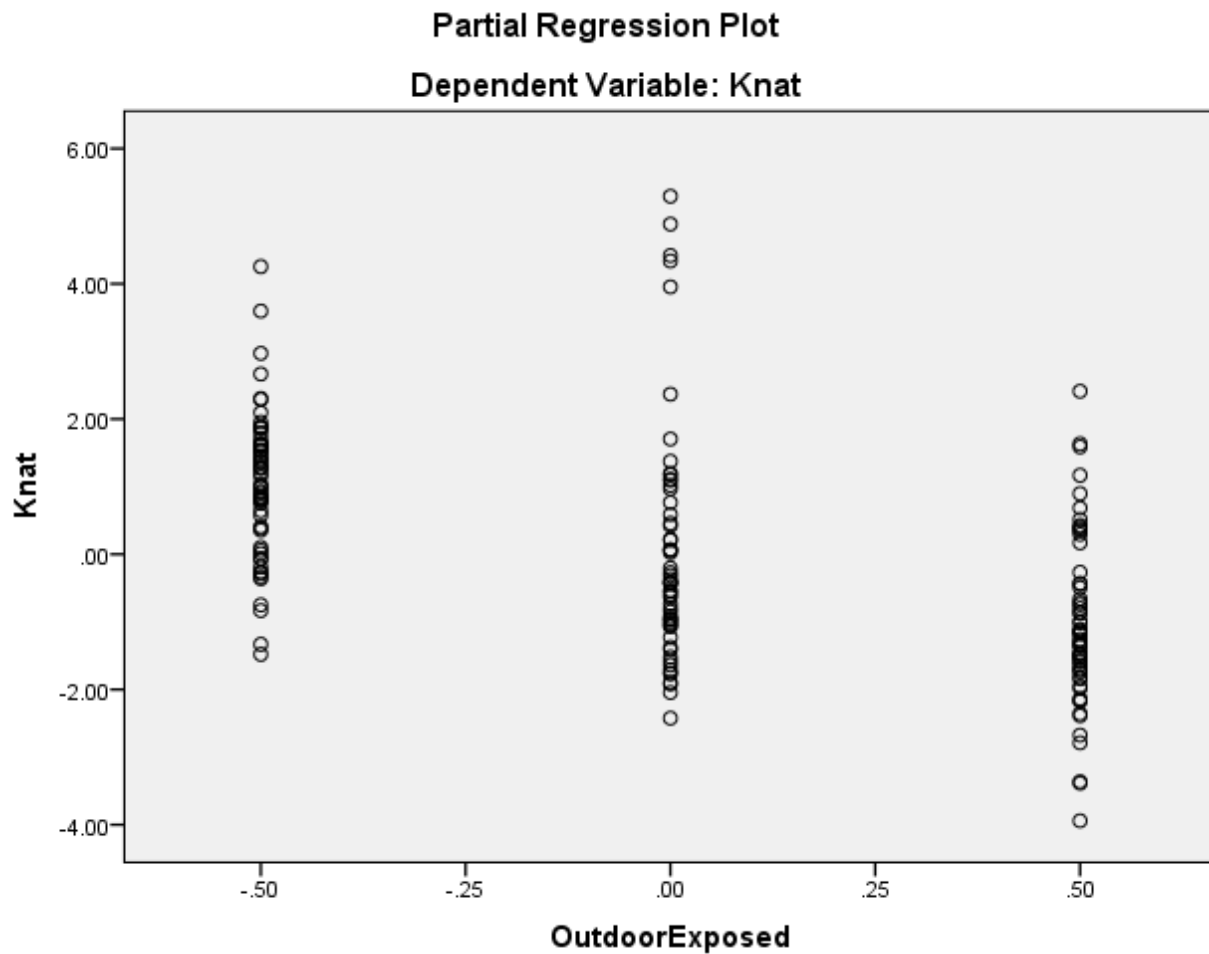


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER fc OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	-.777	.266	-.329
	fc	-.777	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	fc	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	fc	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, fc, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knot
- b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.852 ^a	.726	.722	1.97007	1.274

- a. Predictors: (Constant), OutdoorExposed, fc, OutdoorSheltered
- b. Dependent Variable: Knot

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1812.226	3	604.075	155.642	.000 ^b
	Residual	683.087	176	3.881		
	Total	2495.312	179			

- a. Dependent Variable: Knot
- b. Predictors: (Constant), OutdoorExposed, fc, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	12.265	.382		32.130	.000
	fc	-.156	.008	-.777	-19.707	.000
	OutdoorSheltered	1.066	.360	.135	2.964	.003
	OutdoorExposed	-2.069	.360	-.262	-5.752	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	11.511	13.018			
	fc	-.172	-.141	-.777	-.830	-.777
	OutdoorSheltered	.356	1.776	.266	.218	.117
	OutdoorExposed	-2.779	-1.359	-.329	-.398	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	fc	OutdoorSheltered
1	1	2.622	1.000	.02	.03	.03
	2	1.000	1.619	.00	.00	.25
	3	.283	3.042	.02	.26	.55
	4	.094	5.273	.96	.72	.17

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1	.03	
	2	.25	
	3	.55	
	4	.17	

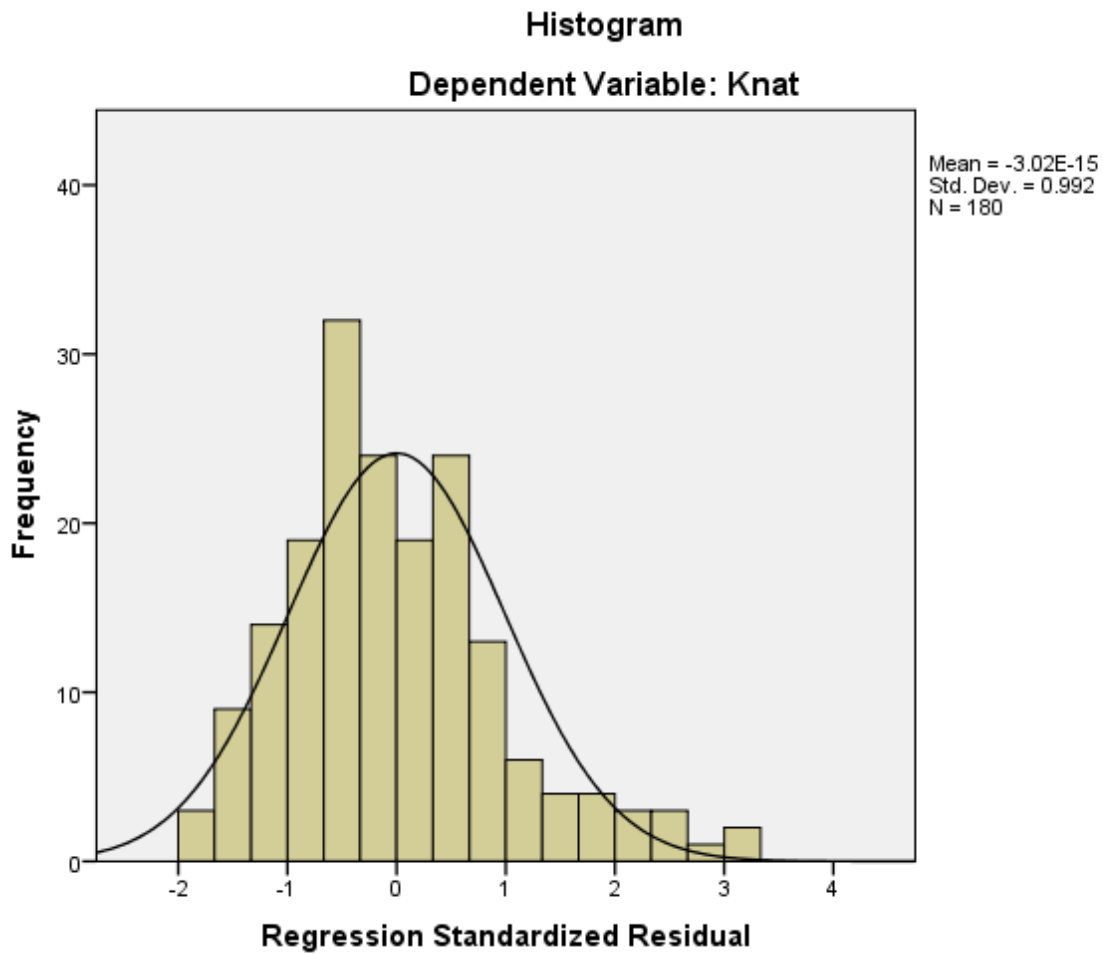
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-4.0906	11.9662	6.3209	3.18185	180
Residual	-3.50865	6.51384	.00000	1.95349	180
Std. Predicted Value	-3.272	1.774	.000	1.000	180
Std. Residual	-1.781	3.306	.000	.992	180

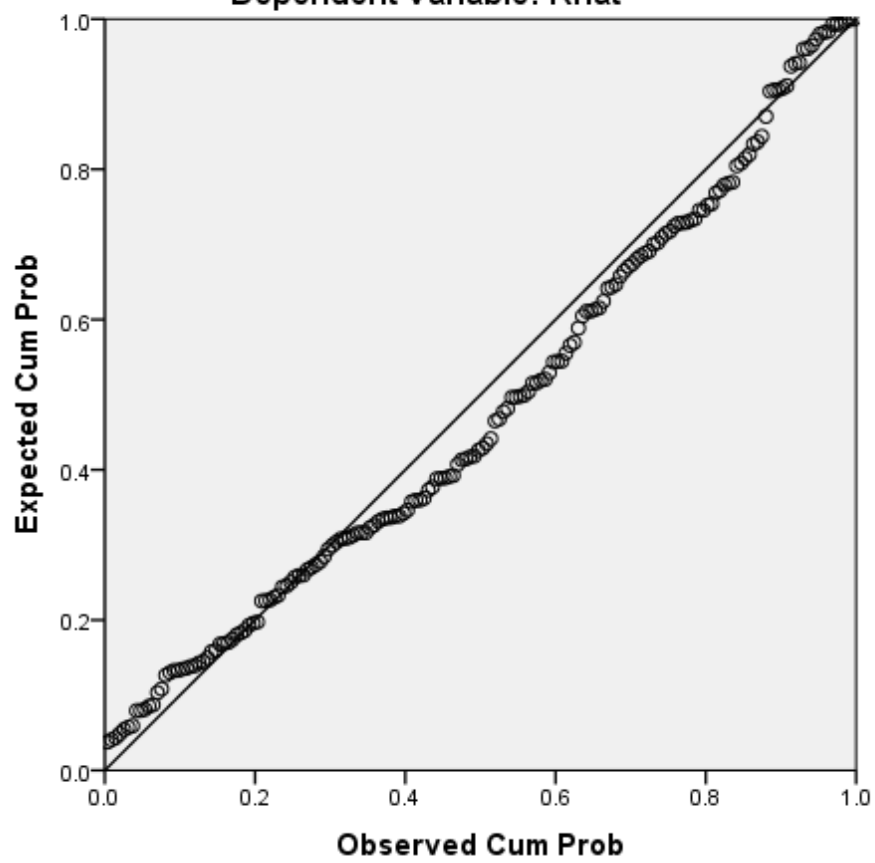
a. Dependent Variable: Knat

Charts



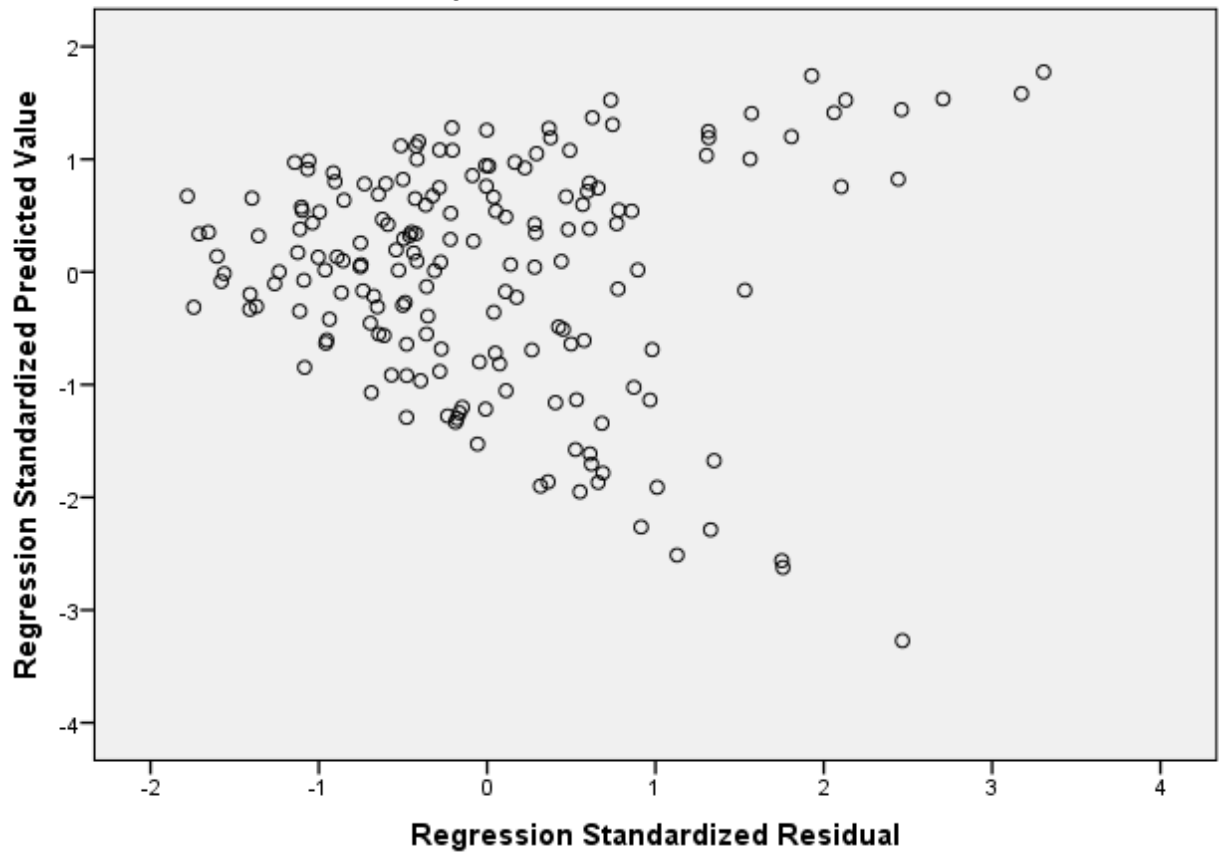
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

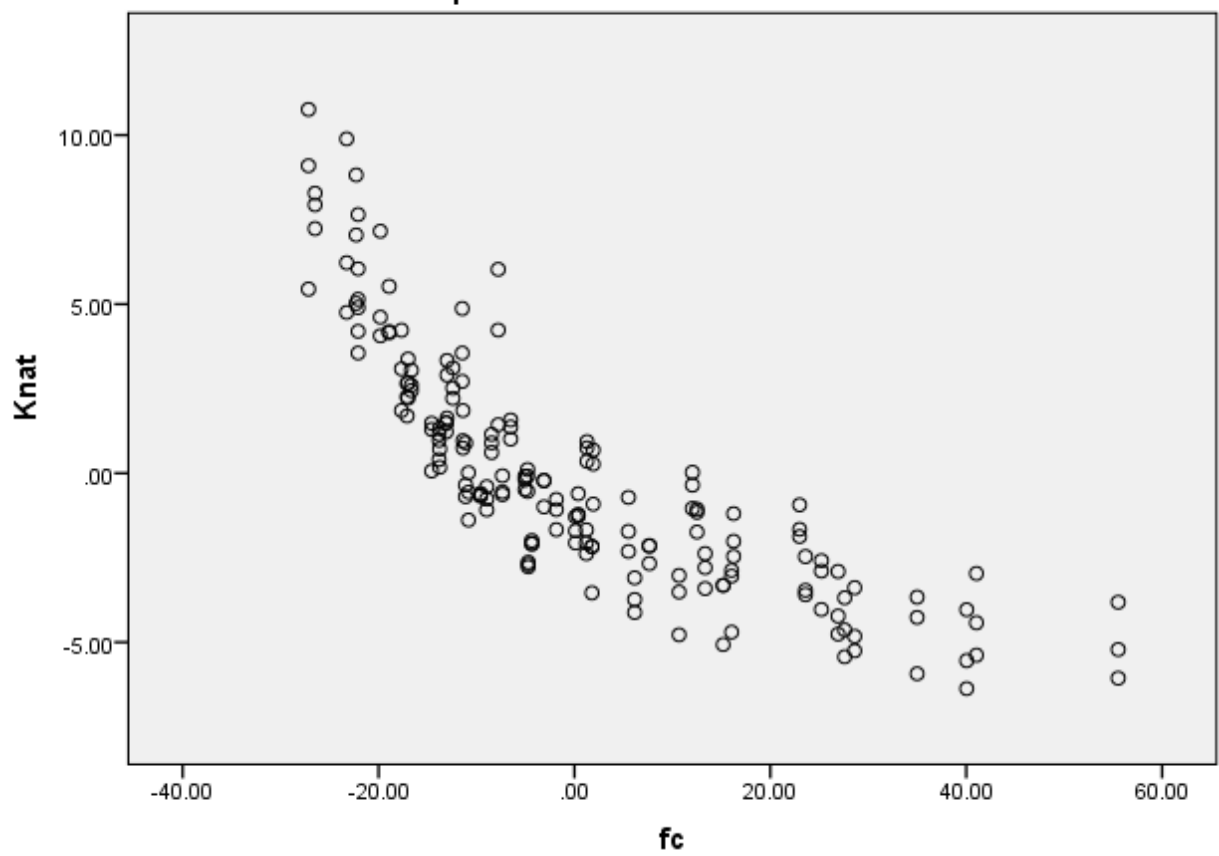


Scatterplot

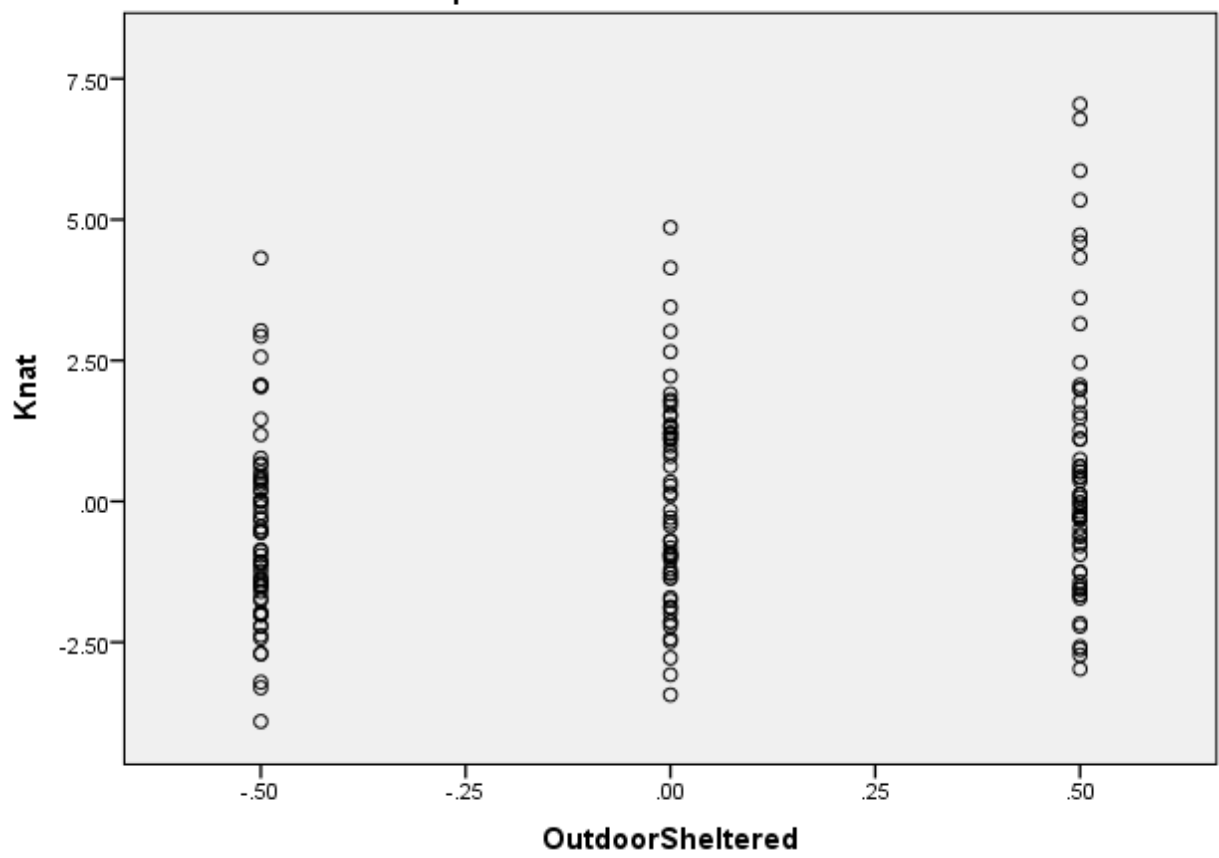
Dependent Variable: Knot

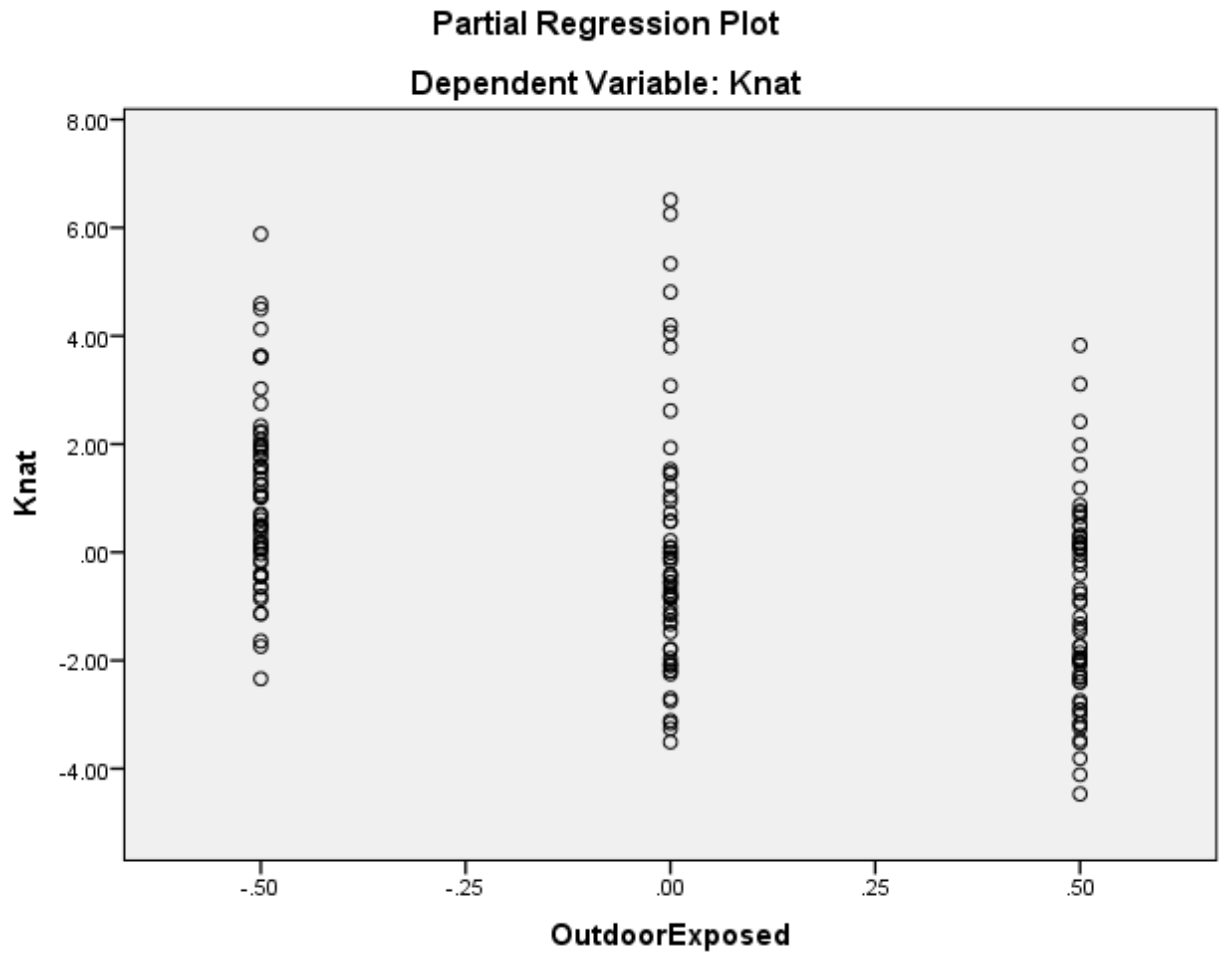


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knot





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER OPI OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
OPI	9.633	.4043	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	OPI	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	-.738	.266	-.329
	OPI	-.738	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	OPI	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	OPI	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, OPI, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knot
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.817 ^a	.667	.661	2.17295	1.089

- a. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered
b. Dependent Variable: Knot

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1664.291	3	554.764	117.492	.000 ^b
	Residual	831.021	176	4.722		
	Total	2495.312	179			

- a. Dependent Variable: Knot
b. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	72.317	3.880		18.639	.000
	OPI	-6.816	.402	-.738	-16.968	.000
	OutdoorSheltered	1.066	.397	.135	2.687	.008
	OutdoorExposed	-2.069	.397	-.262	-5.215	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	64.660	79.974			
	OPI	-7.609	-6.023	-.738	-.788	-.738
	OutdoorSheltered	.283	1.849	.266	.199	.117
	OutdoorExposed	-2.852	-1.286	-.329	-.366	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	OPI	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	OPI	OutdoorSheltered
1	1	2.757	1.000	.00	.00	.03
	2	1.000	1.660	.00	.00	.25
	3	.242	3.376	.00	.00	.72
	4	.001	56.170	1.00	1.00	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1		
	2		
	3		
	4		

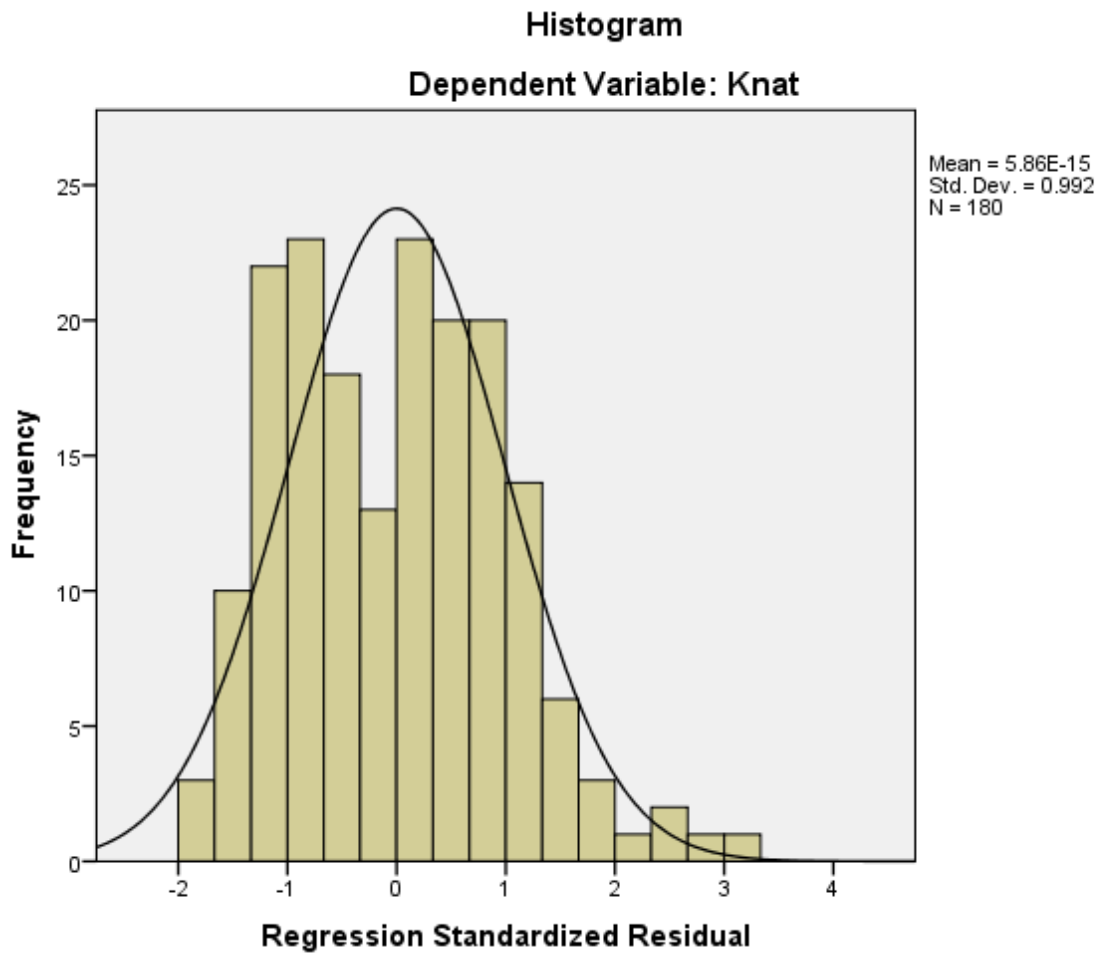
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.6393	17.4911	6.3209	3.04922	180
Residual	-3.87210	6.93503	.00000	2.15466	180
Std. Predicted Value	-2.283	3.663	.000	1.000	180
Std. Residual	-1.782	3.192	.000	.992	180

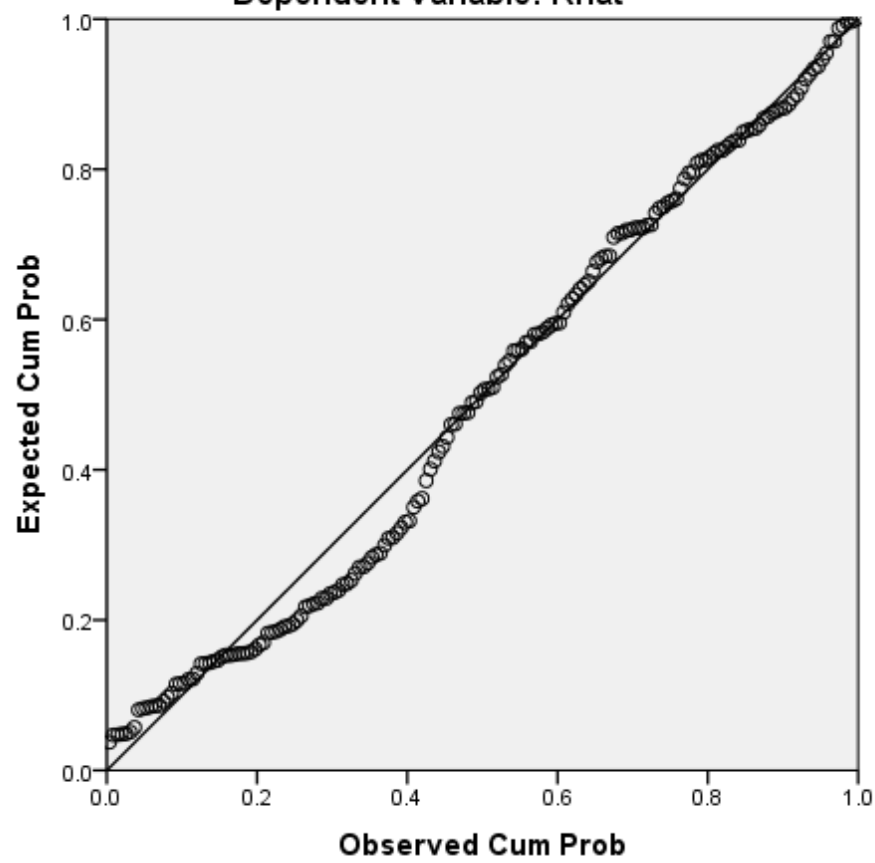
a. Dependent Variable: Knat

Charts



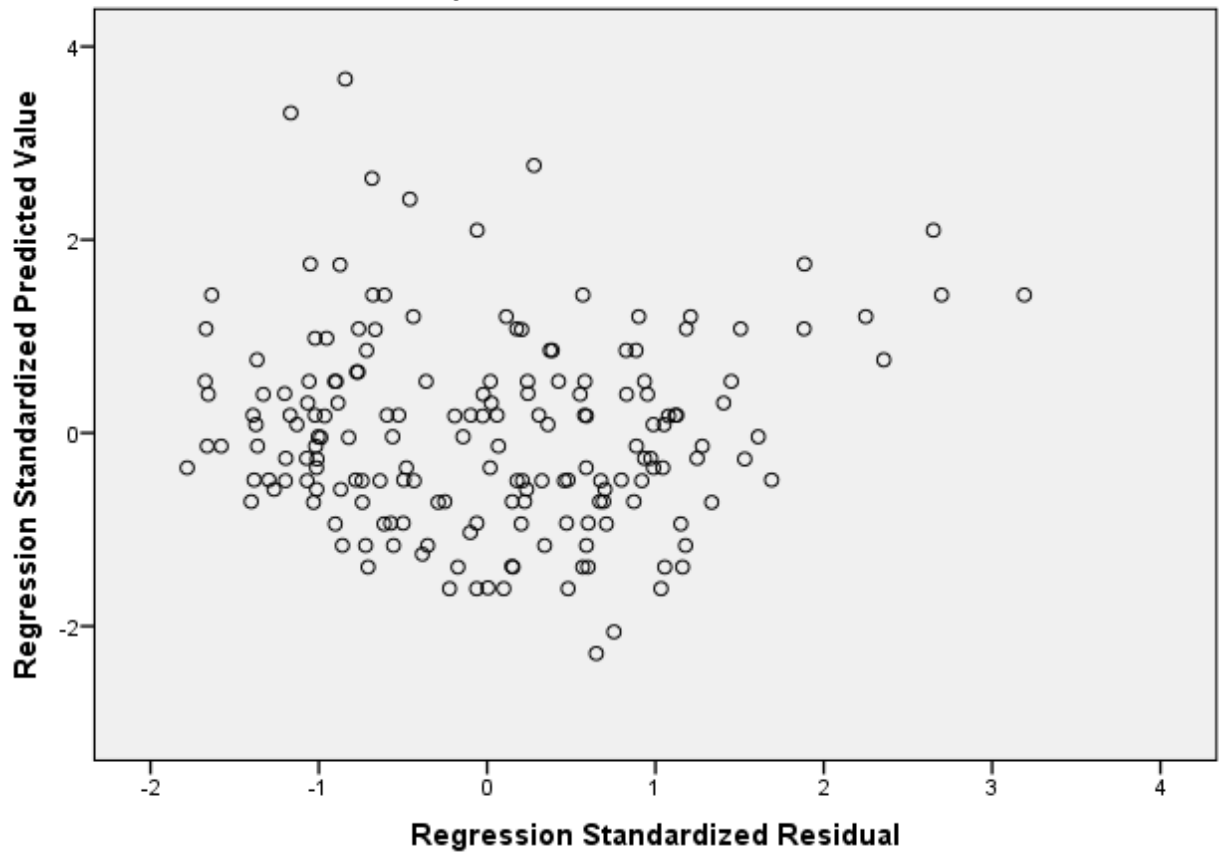
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

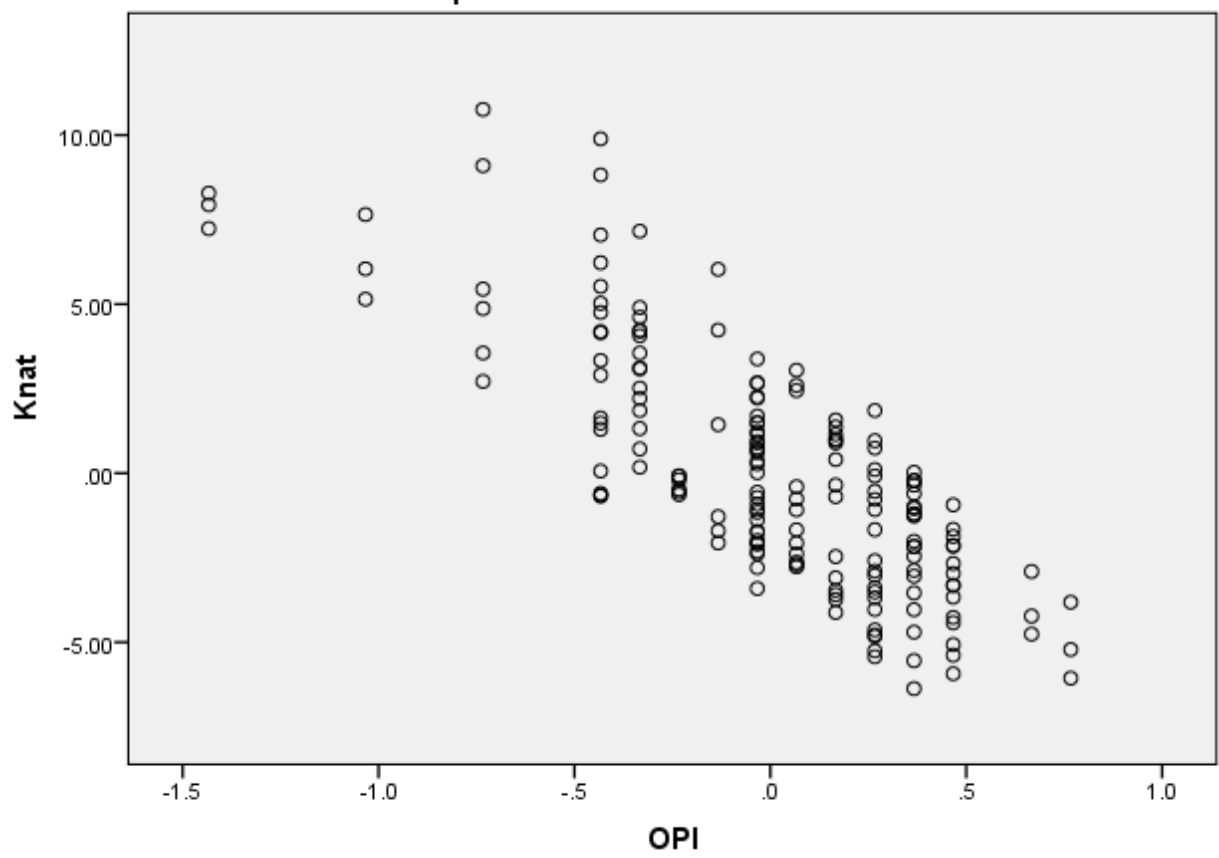


Scatterplot

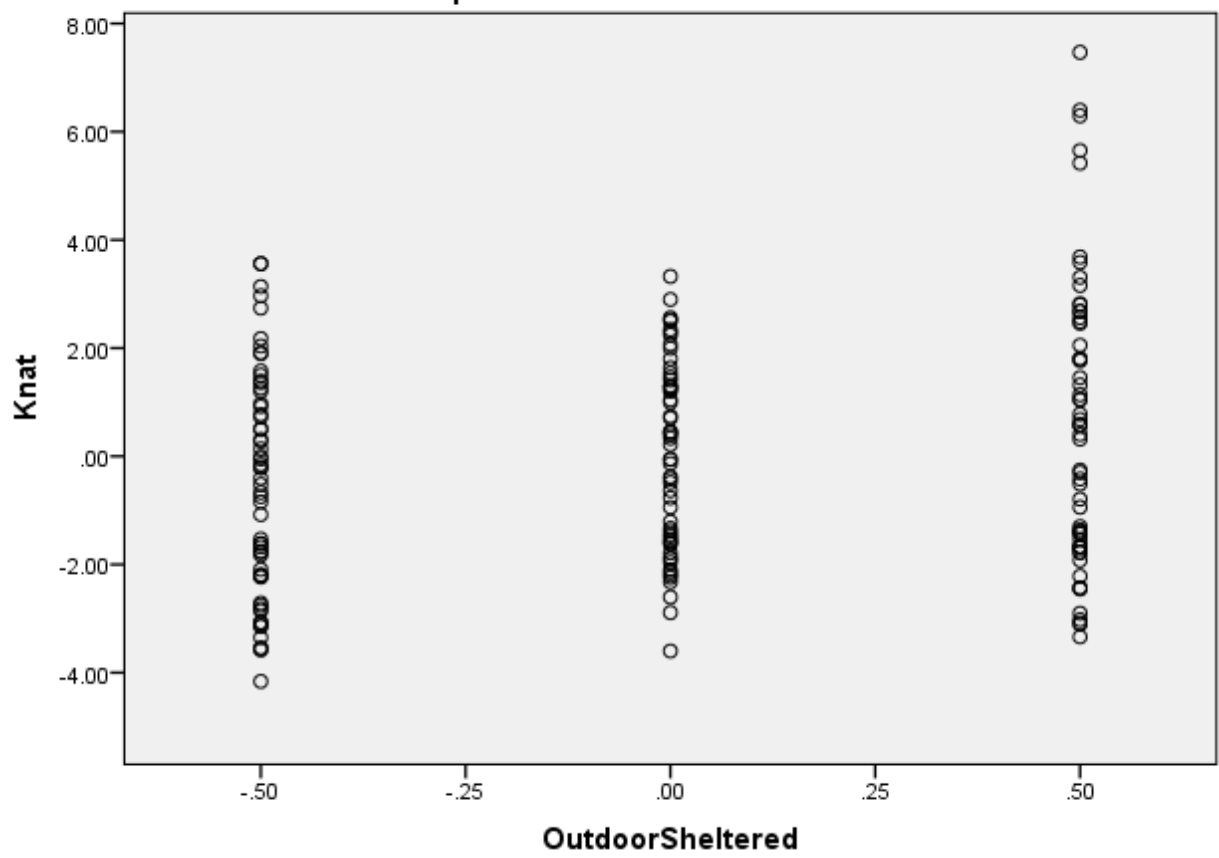
Dependent Variable: Knat

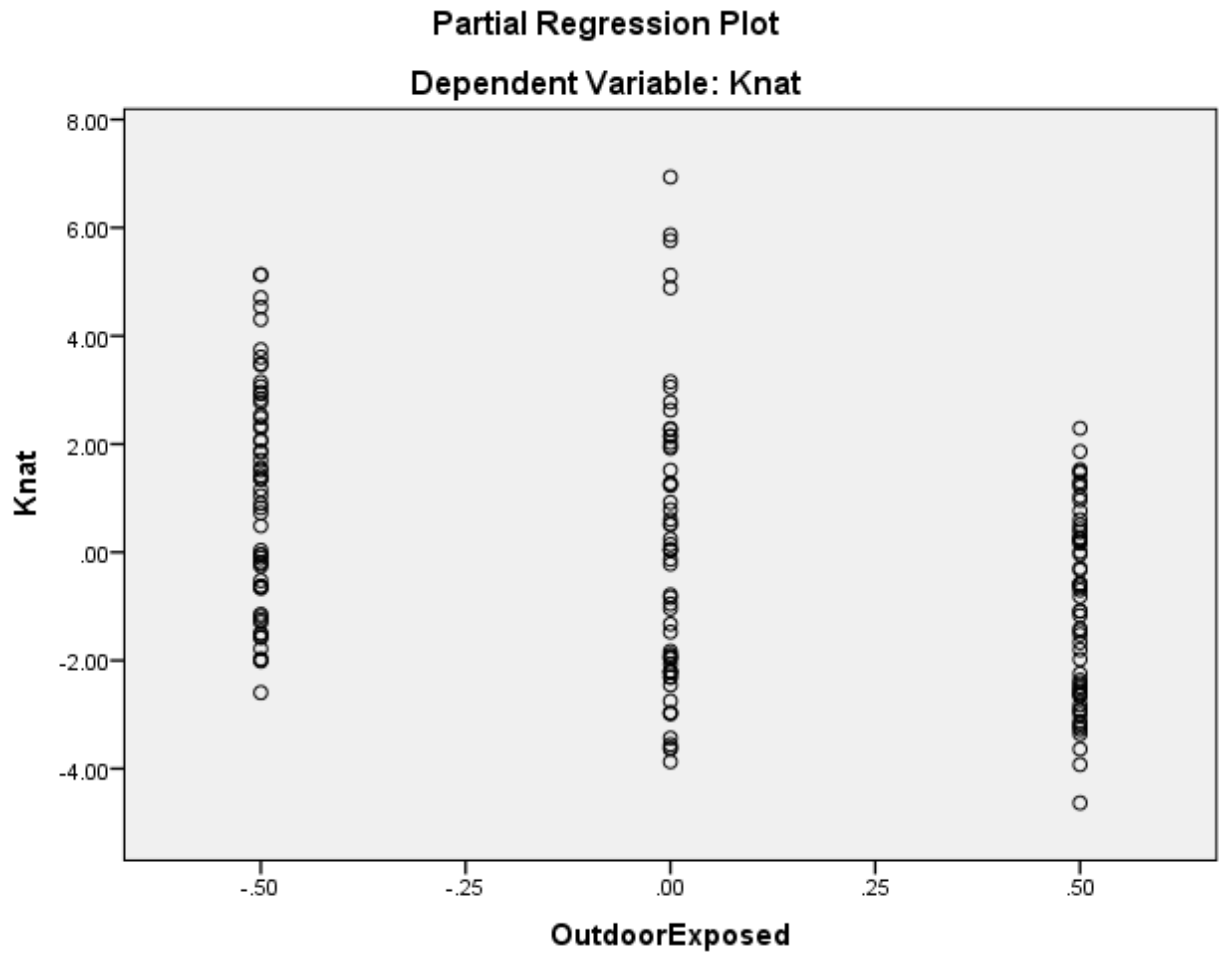


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER WS OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
WS	10.028	3.8857	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	WS	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	.747	.266	-.329
	WS	.747	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	WS	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	WS	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, WS, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knot
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.825 ^a	.680	.674	2.13049	1.049

- a. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered
b. Dependent Variable: Knot

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1696.452	3	565.484	124.584	.000 ^b
	Residual	798.860	176	4.539		
	Total	2495.312	179			

- a. Dependent Variable: Knot
b. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.541	.495		-1.093	.276
	WS	.718	.041	.747	17.509	.000
	OutdoorSheltered	1.066	.389	.135	2.741	.007
	OutdoorExposed	-2.069	.389	-.262	-5.319	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	-1.517	.435			
	WS	.637	.798	.747	.797	.747
	OutdoorSheltered	.299	1.834	.266	.202	.117
	OutdoorExposed	-2.836	-1.301	-.329	-.372	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	WS	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	WS	OutdoorSheltered
1	1	2.676	1.000	.01	.02	.03
	2	1.000	1.636	.00	.00	.25
	3	.262	3.194	.03	.13	.64
	4	.062	6.586	.96	.86	.08

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1		
	2		
	3		
	4		

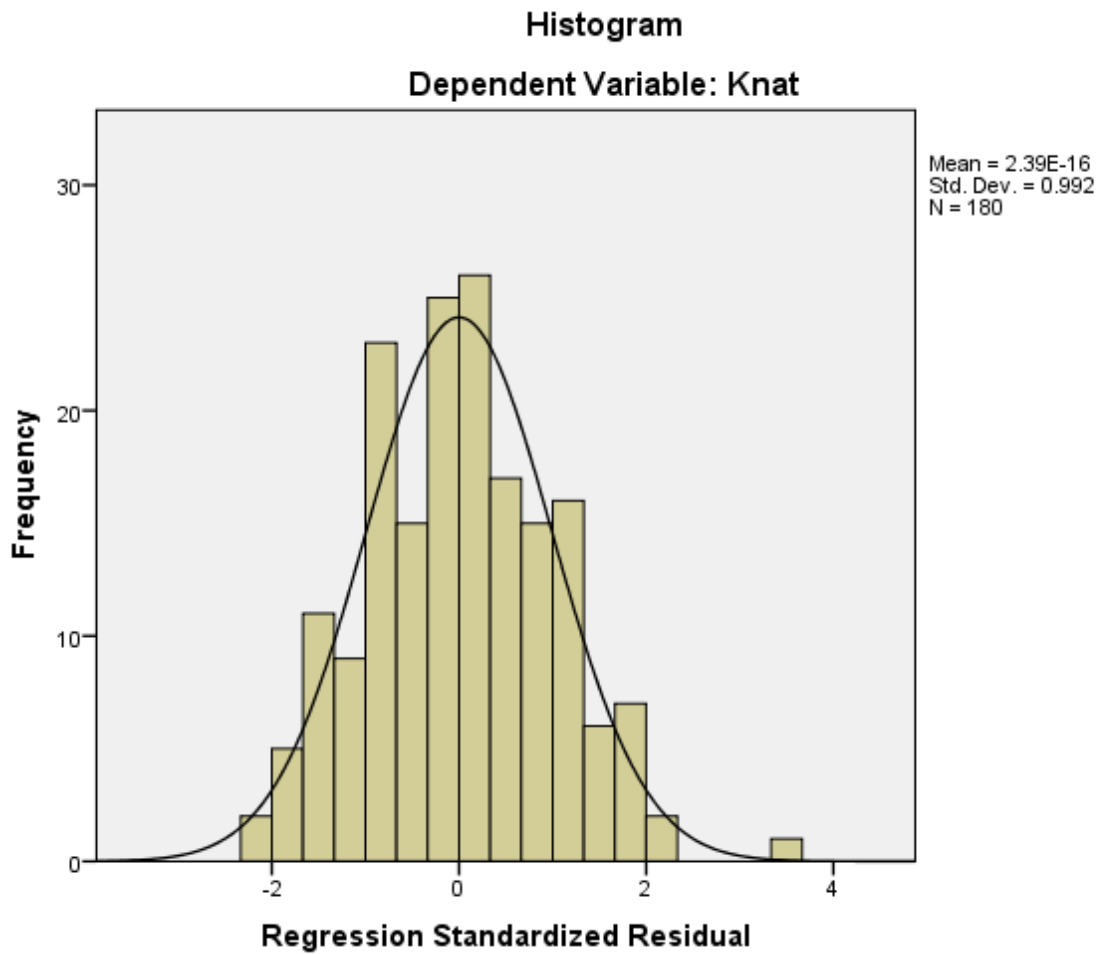
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.1698	14.8765	6.3209	3.07854	180
Residual	-4.62417	7.54109	.00000	2.11256	180
Std. Predicted Value	-2.108	2.779	.000	1.000	180
Std. Residual	-2.170	3.540	.000	.992	180

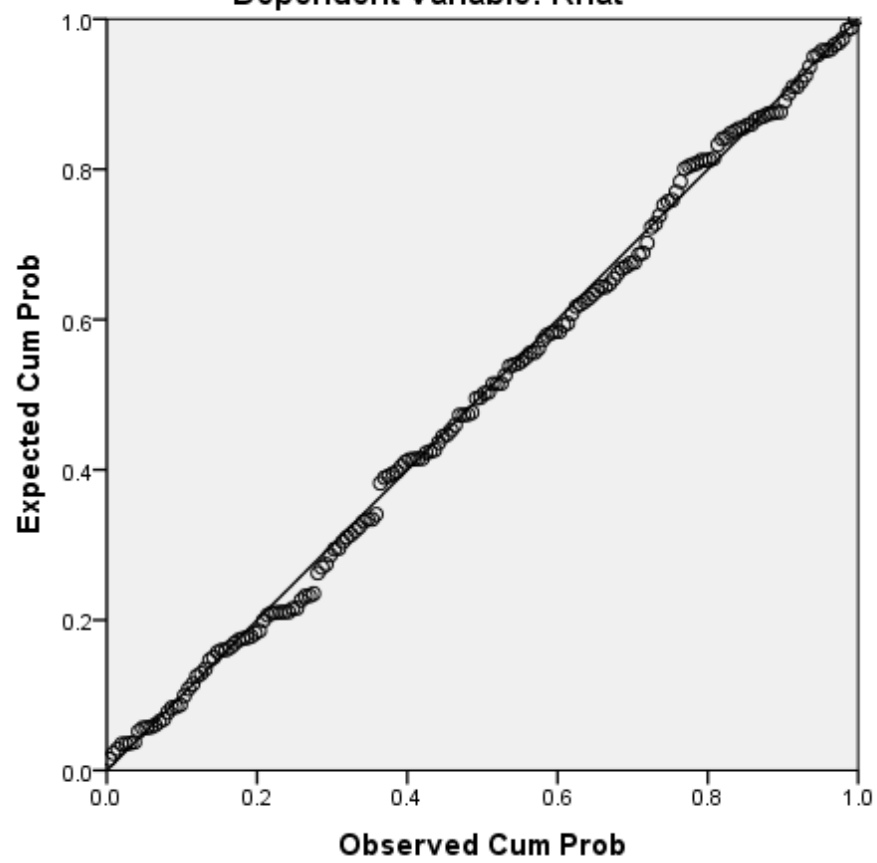
a. Dependent Variable: Knat

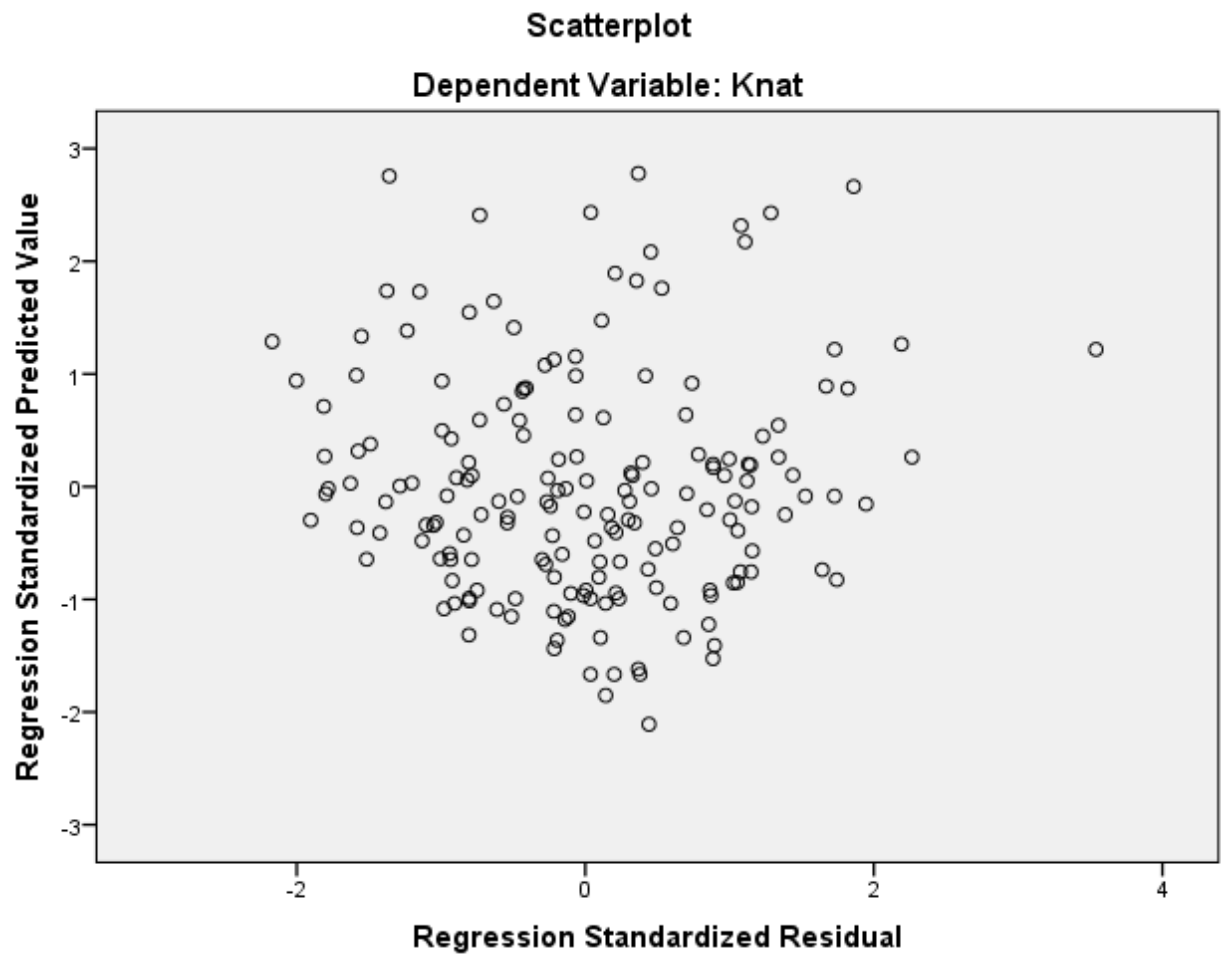
Charts



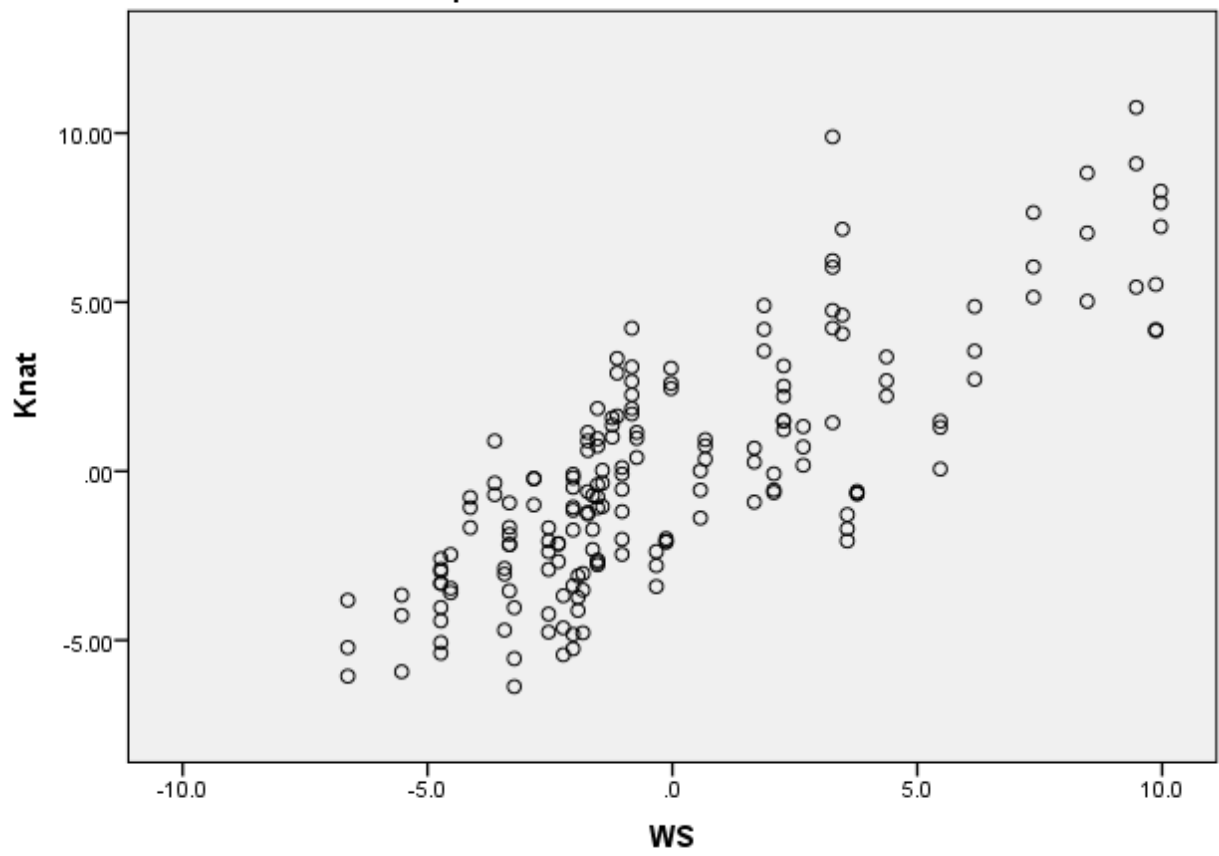
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

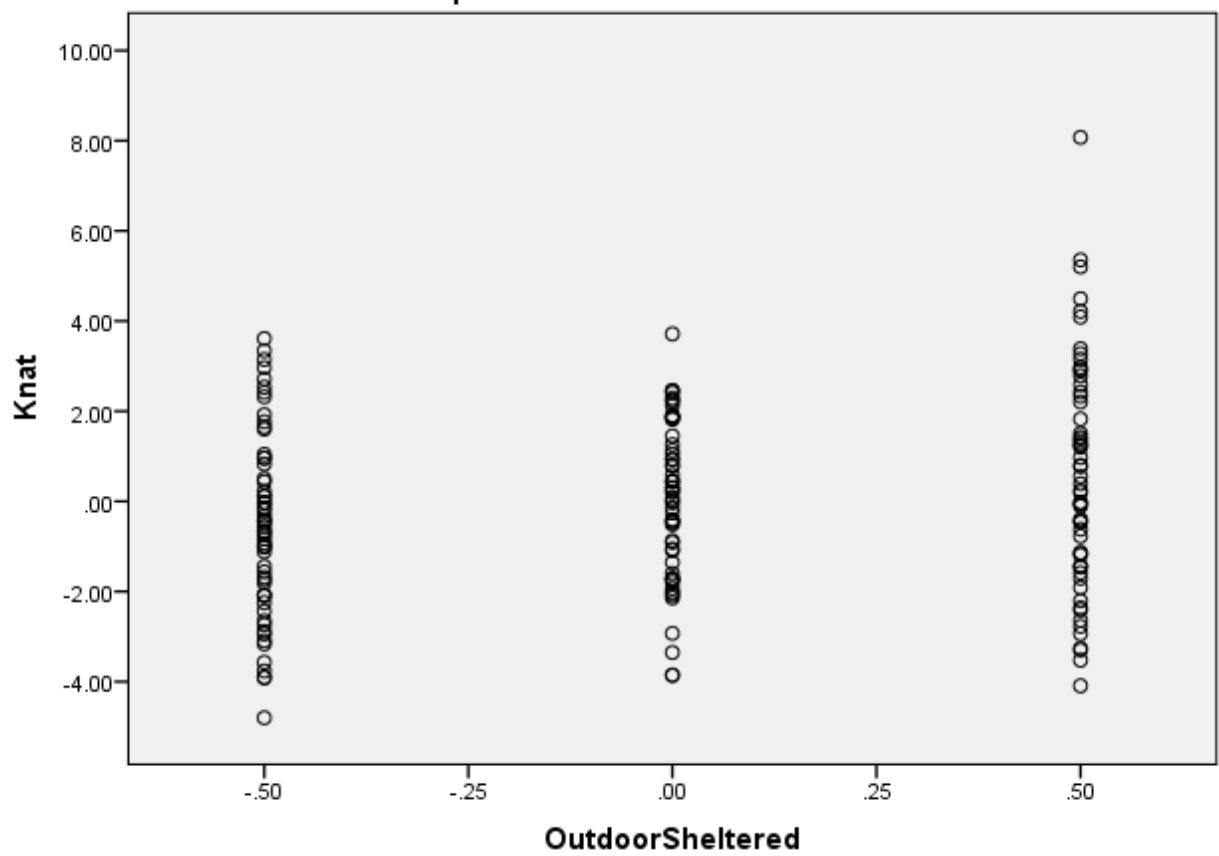


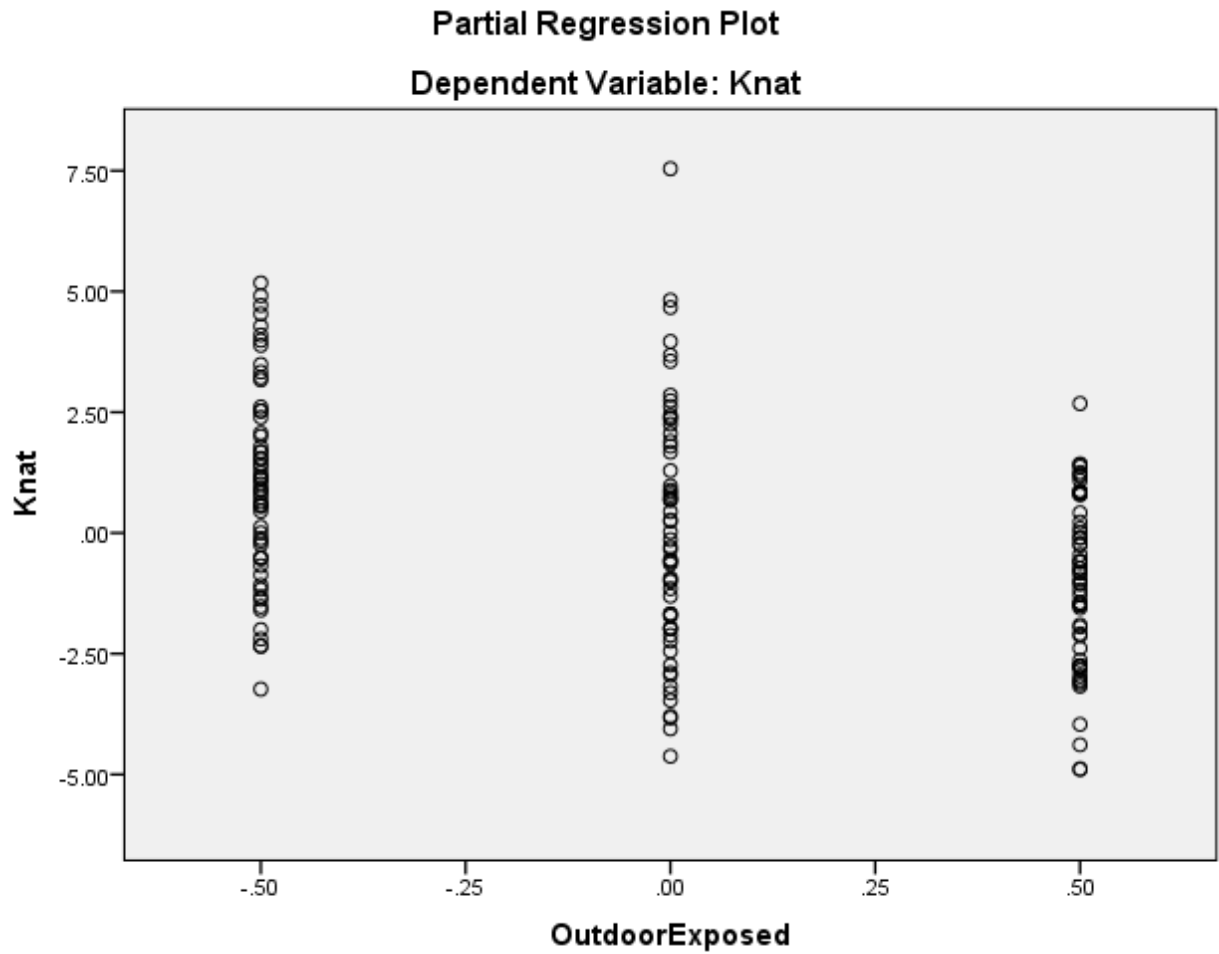


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER Kacc OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
Kacc	3.9405	2.68582	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	Kacc	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	.857	.266	-.329
	Kacc	.857	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	Kacc	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	Kacc	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, Kacc, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knat
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.926 ^a	.857	.854	1.42583	1.160

- a. Predictors: (Constant), OutdoorExposed, Kacc, OutdoorSheltered
b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2137.505	3	712.502	350.469	.000 ^b
	Residual	357.807	176	2.033		
	Total	2495.312	179			

- a. Dependent Variable: Knat
b. Predictors: (Constant), OutdoorExposed, Kacc, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.961	.242		8.118	.000
	Kacc	1.191	.040	.857	30.024	.000
	OutdoorSheltered	1.066	.260	.135	4.096	.000
	OutdoorExposed	-2.069	.260	-.262	-7.947	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	1.484	2.437			
	Kacc	1.113	1.270	.857	.915	.857
	OutdoorSheltered	.552	1.580	.266	.295	.117
	OutdoorExposed	-2.583	-1.555	-.329	-.514	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Kacc	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Kacc	OutdoorSheltered
1	1	2.548	1.000	.03	.04	.03
	2	1.000	1.596	.00	.00	.25
	3	.325	2.800	.00	.47	.40
	4	.127	4.475	.97	.49	.32

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1		
	2		
	3		
	4		

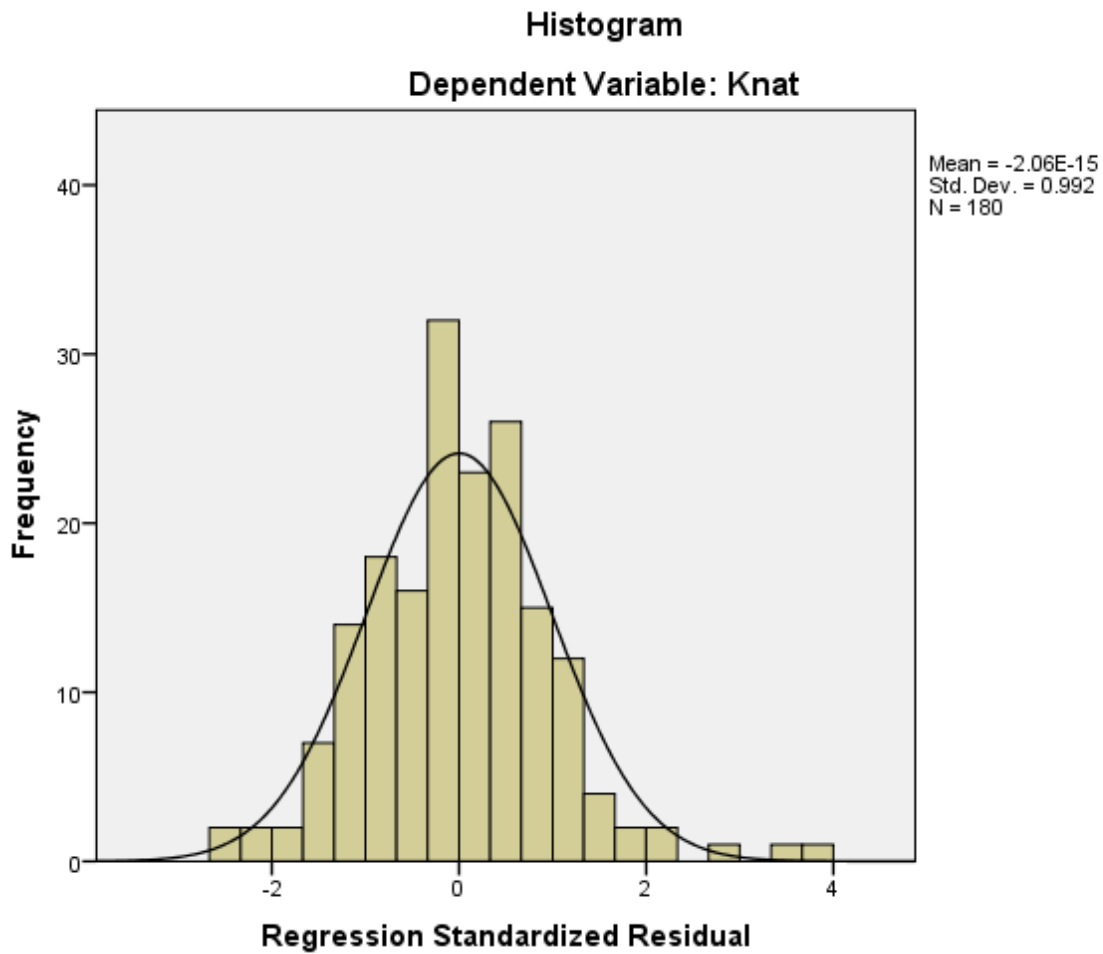
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.1081	16.8225	6.3209	3.45563	180
Residual	-3.54164	5.69612	.00000	1.41383	180
Std. Predicted Value	-1.860	3.039	.000	1.000	180
Std. Residual	-2.484	3.995	.000	.992	180

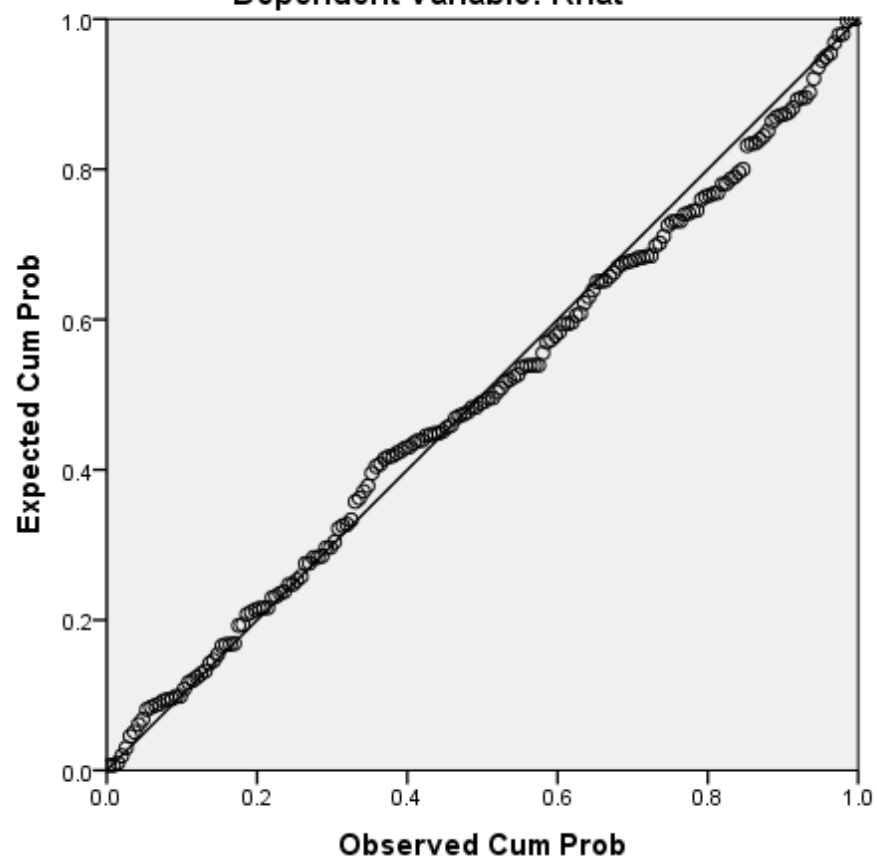
a. Dependent Variable: Knat

Charts



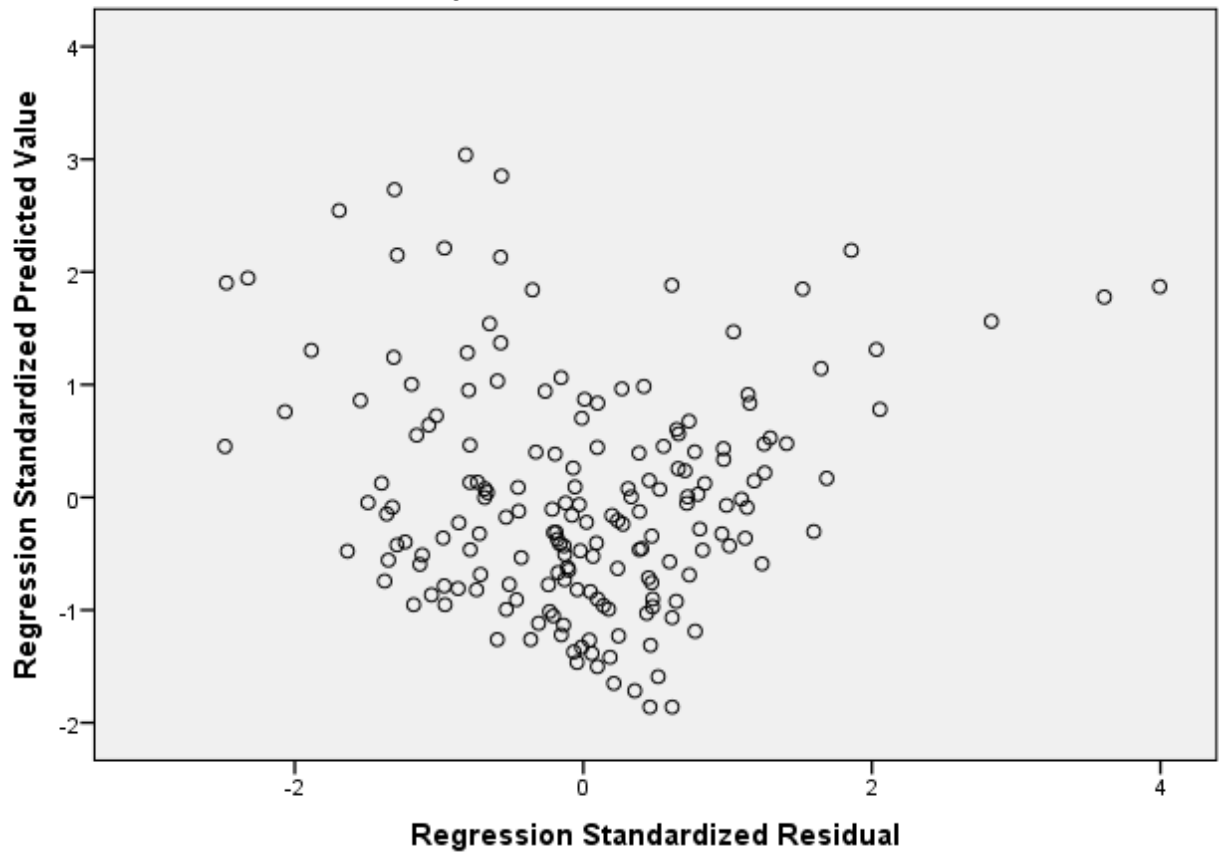
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

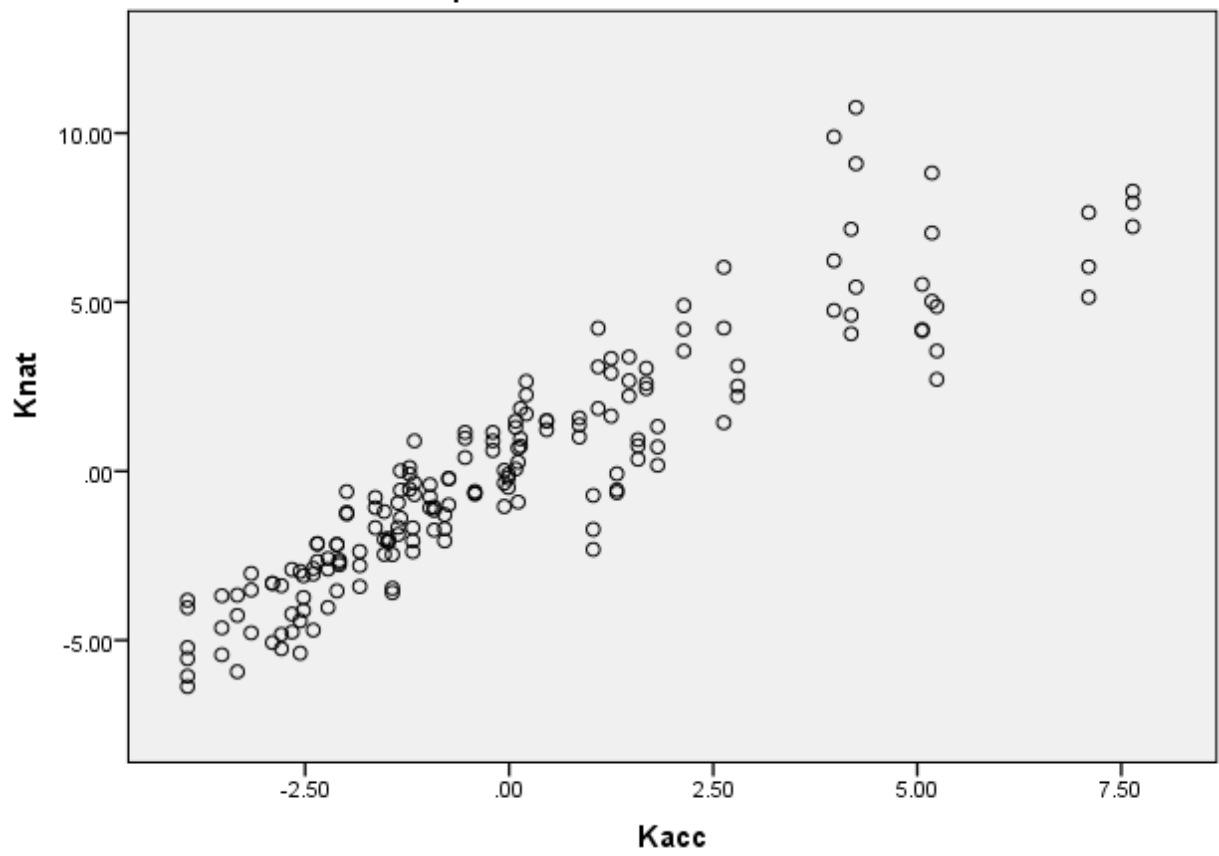


Scatterplot

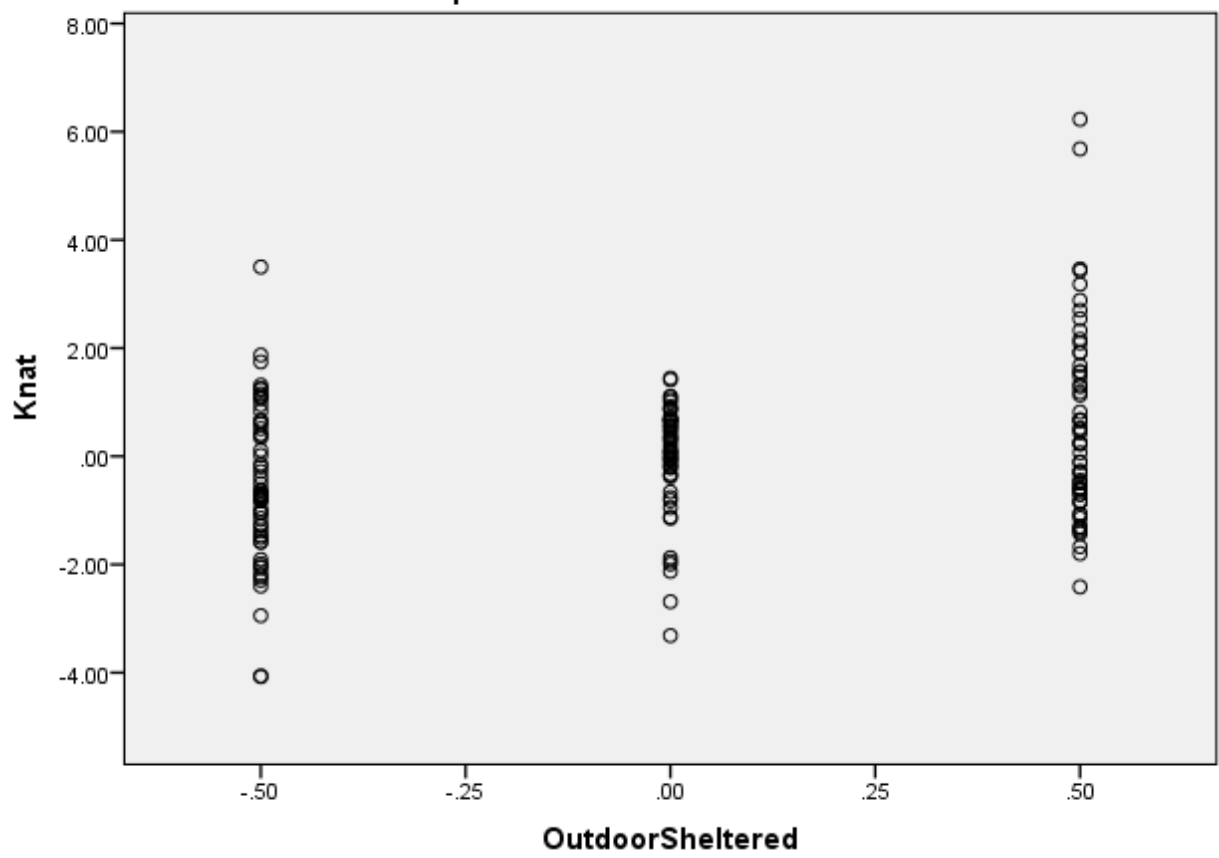
Dependent Variable: Knot

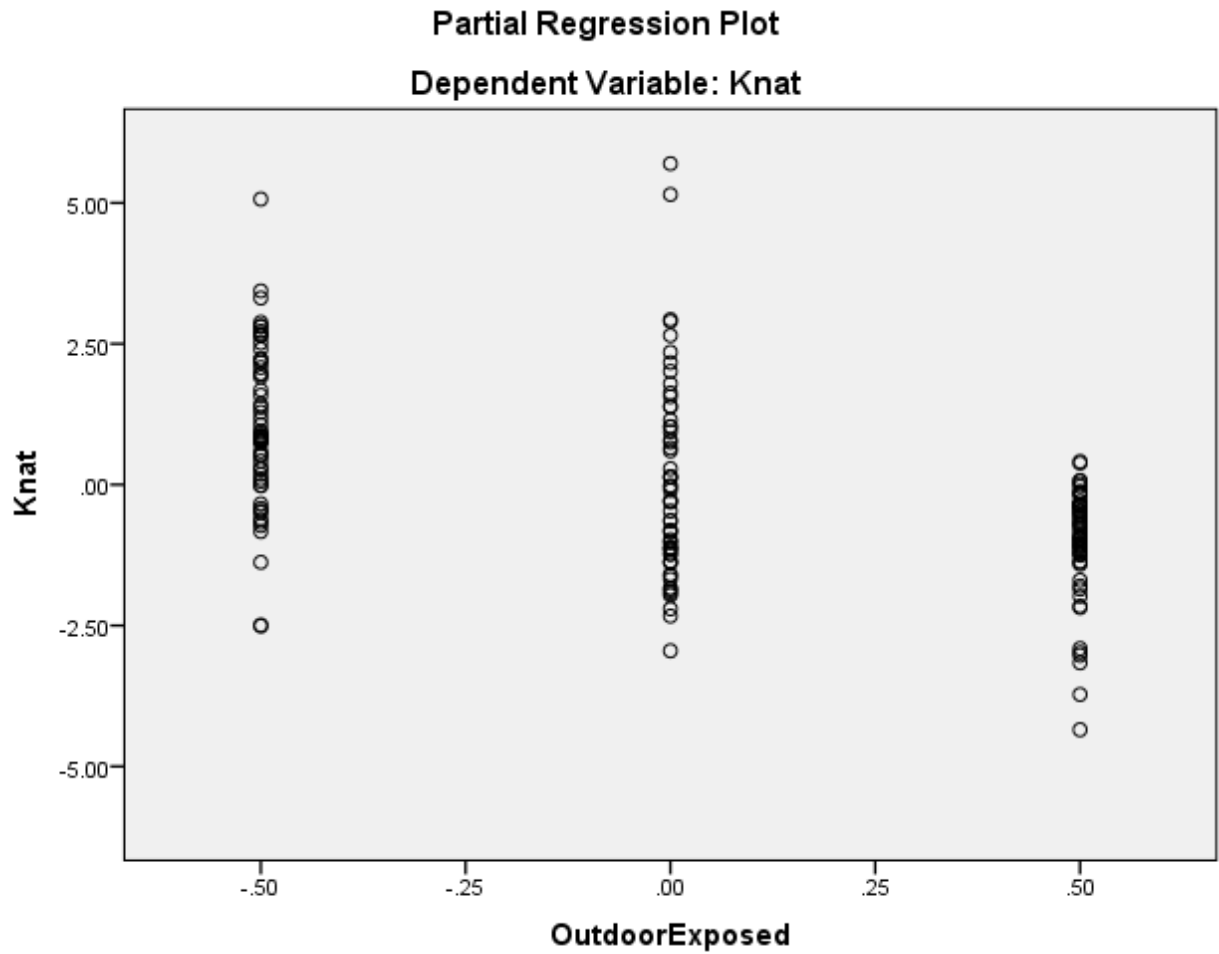


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER OPI CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
OPI	9.633	.4043	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	OPI	CH	OutdoorSheltered
Pearson Correlation	Knat	1.000	-.738	-.744	.266
	OPI	-.738	1.000	.660	.000
	CH	-.744	.660	1.000	.000
	OutdoorSheltered	.266	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000
	OPI	.000	.	.000	.500
	CH	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.
	OutdoorExposed	.000	.500	.500	.000
N	Knat	180	180	180	180
	OPI	180	180	180	180
	CH	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorExposed
Pearson Correlation	Knat	-.329
	OPI	.000

Sig. (1-tailed)	CH	.000
	OutdoorSheltered	-.500
	OutdoorExposed	1.000
	Knat	.000
	OPI	.500
	CH	.500
	OutdoorSheltered	.000
	OutdoorExposed	.
	Knat	.180
	OPI	.180
N	CH	180
	OutdoorSheltered	180
	OutdoorExposed	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, OPI ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.885 ^a	.784	.779	1.75669	1.402

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, OPI

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1955.269	4	488.817	158.400	.000 ^b
	Residual	540.043	175	3.086		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, OPI

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	56.890	3.516		16.180	.000
	OPI	-4.043	.432	-.438	-9.348	.000
	CH	-.840	.087	-.455	-9.710	.000
	OutdoorSheltered	1.066	.321	.135	3.324	.001
	OutdoorExposed	-2.069	.321	-.262	-6.450	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	49.951	63.830			
	OPI	-4.896	-3.189	-.738	-.577	-.329
	CH	-1.011	-.669	-.744	-.592	-.341
	OutdoorSheltered	.433	1.699	.266	.244	.117
	OutdoorExposed	-2.702	-1.436	-.329	-.438	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	OPI	.564	1.773
	CH	.564	1.773
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics ^a							
Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	OPI	CH	OutdoorSheltere d
1	1	3.717	1.000	.00	.00	.00	.01
	2	1.000	1.928	.00	.00	.00	.25
	3	.270	3.712	.00	.00	.00	.73
	4	.013	17.239	.03	.01	.64	.01
	5	.001	80.305	.97	.99	.36	.00

Collinearity Diagnostics ^a		
Model	Dimension	Variance Proportions
		OutdoorExposed
1	1	.01
	2	.25
	3	.73
	4	.01
	5	.00

a. Dependent Variable: Knat

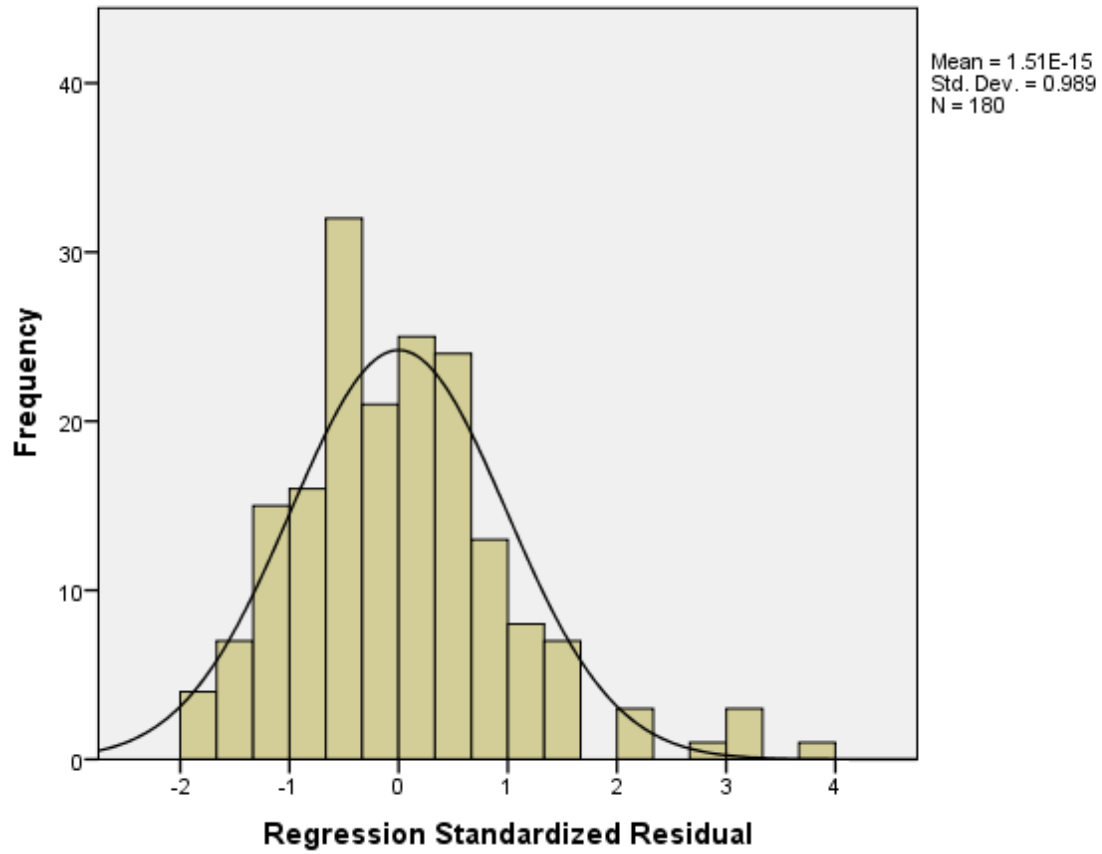
Residuals Statistics ^a					
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.3426	17.0088	6.3209	3.30504	180
Residual	-3.24431	6.50915	.00000	1.73695	180
Std. Predicted Value	-2.319	3.234	.000	1.000	180
Std. Residual	-1.847	3.705	.000	.989	180

a. Dependent Variable: Knat

Charts

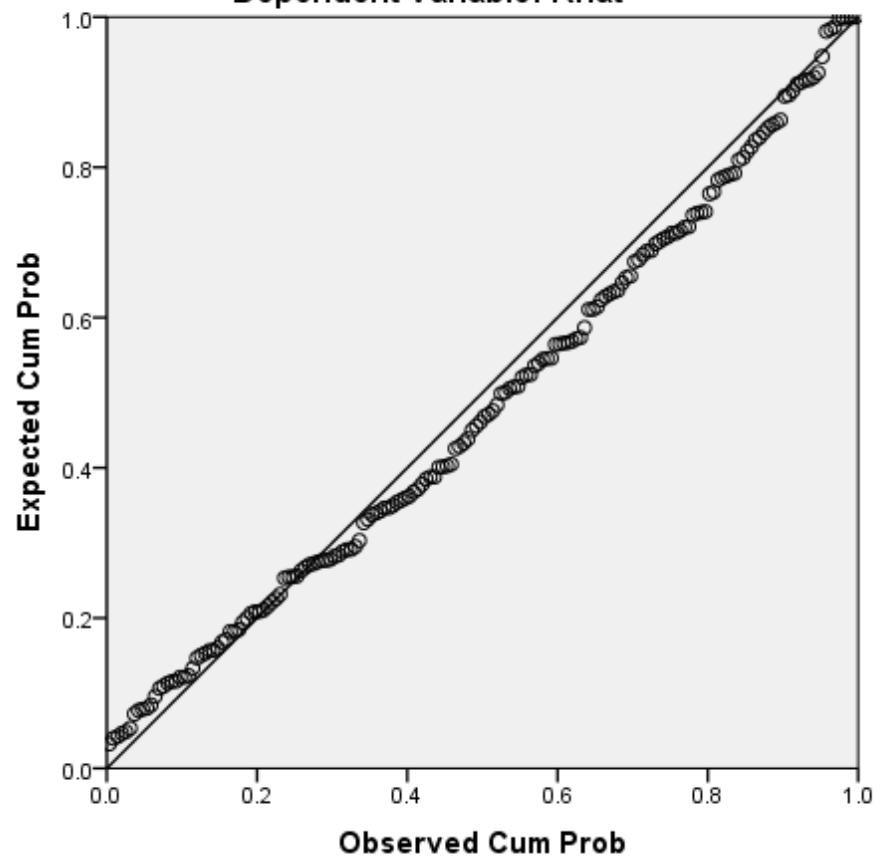
Histogram

Dependent Variable: Knat



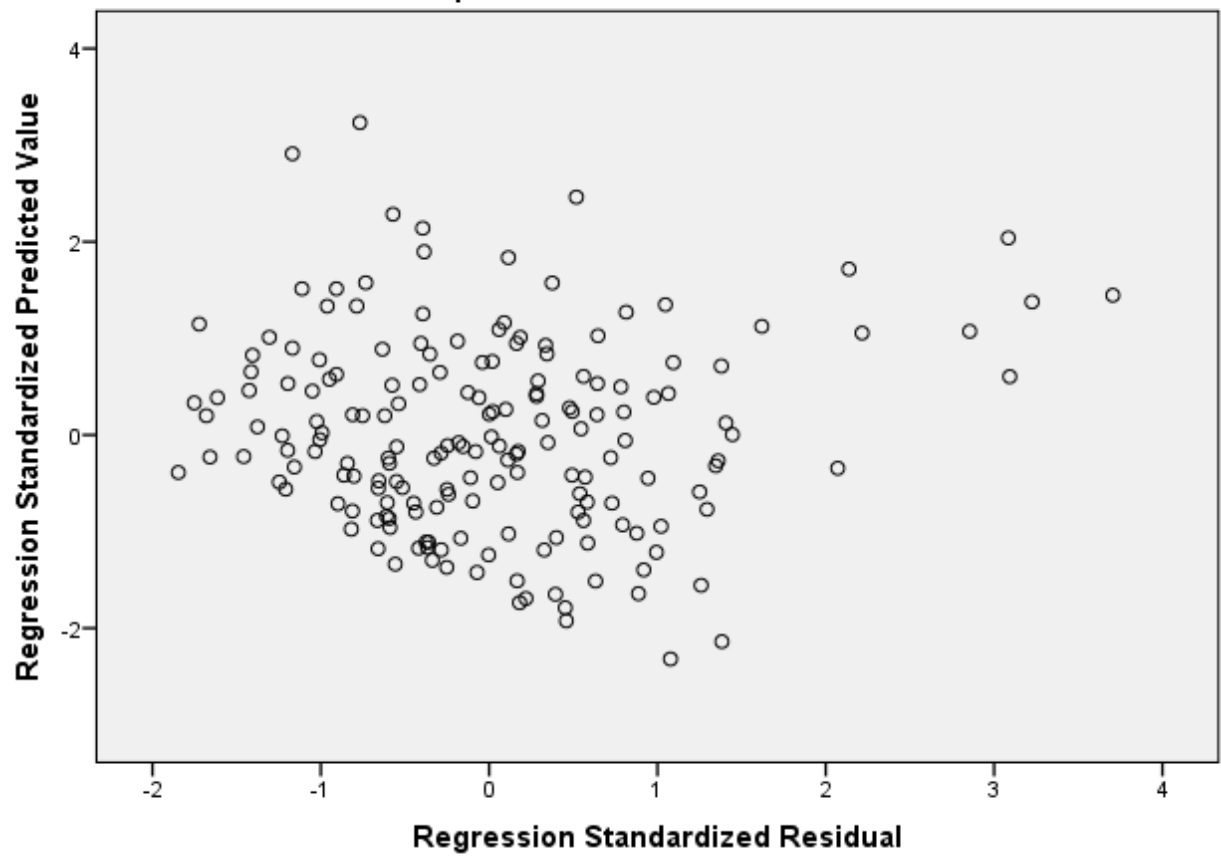
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

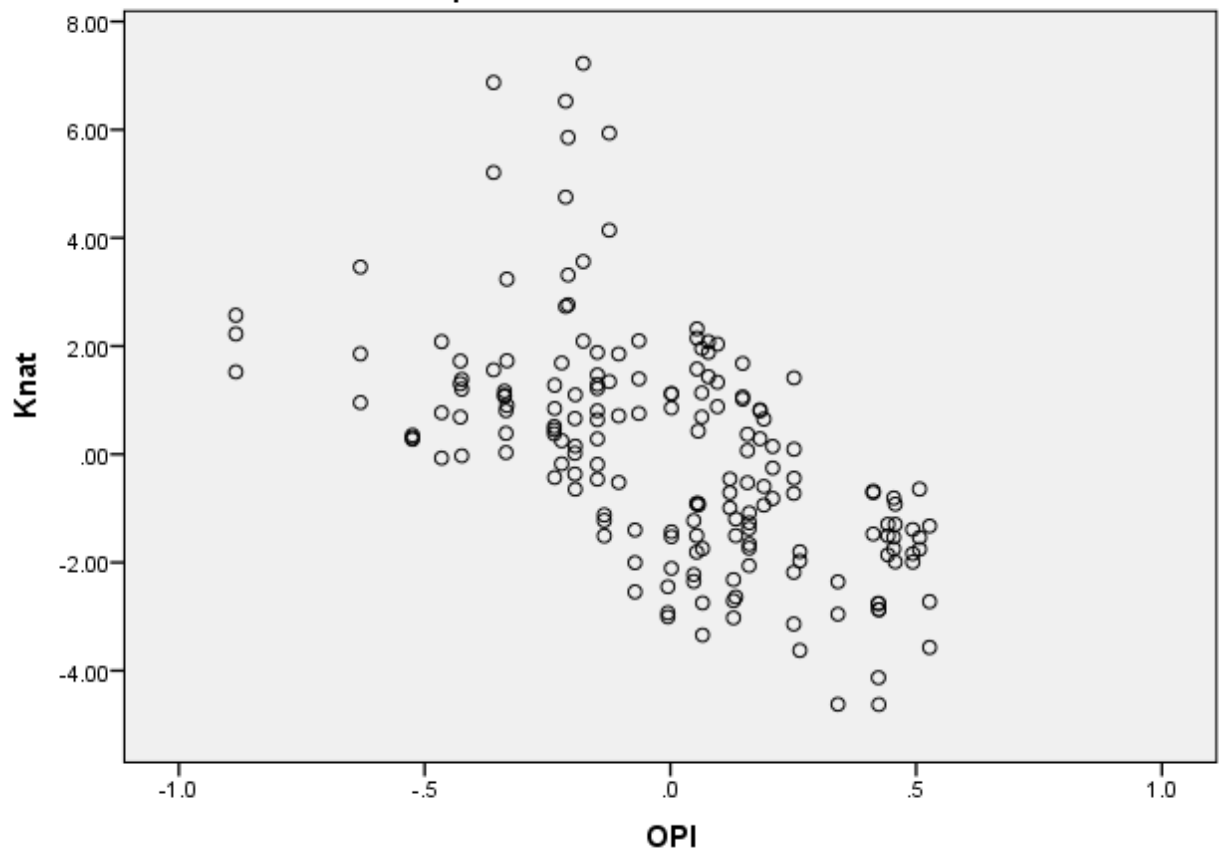


Scatterplot

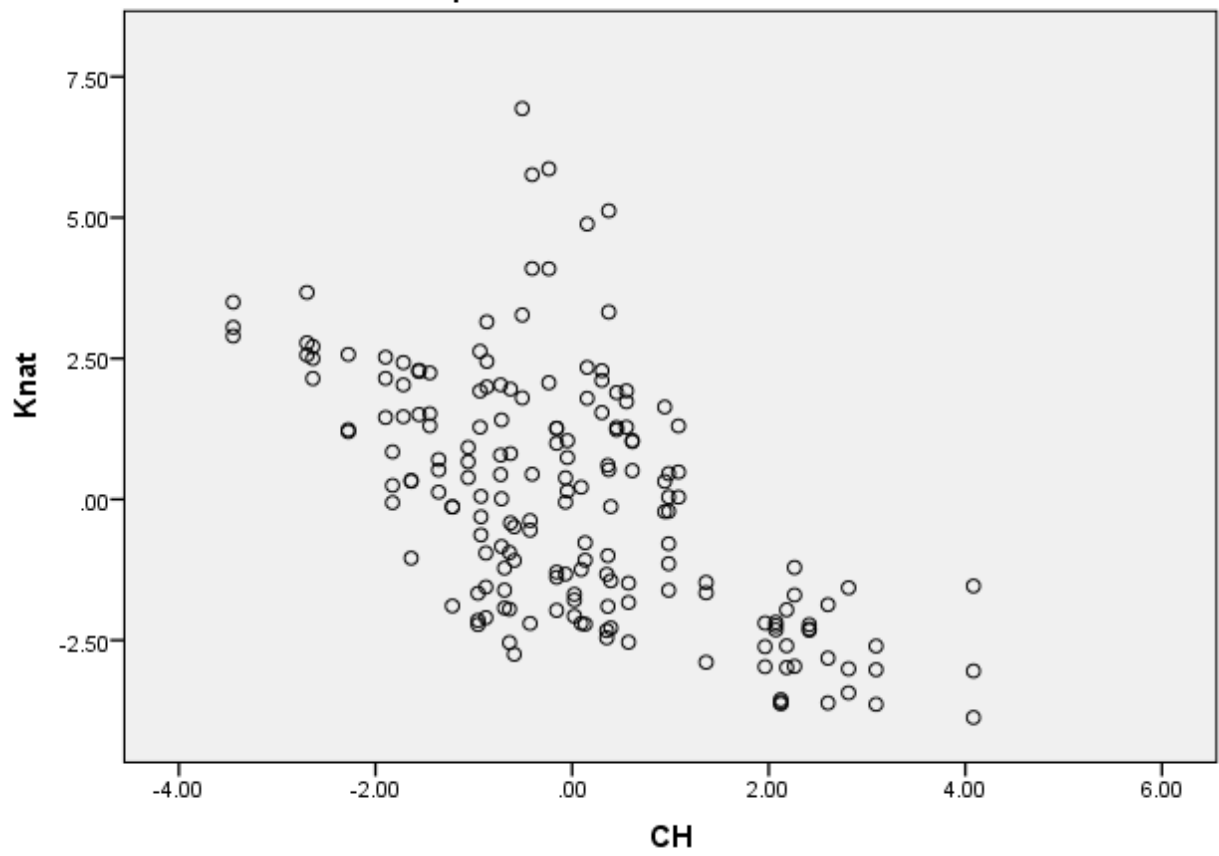
Dependent Variable: Knot



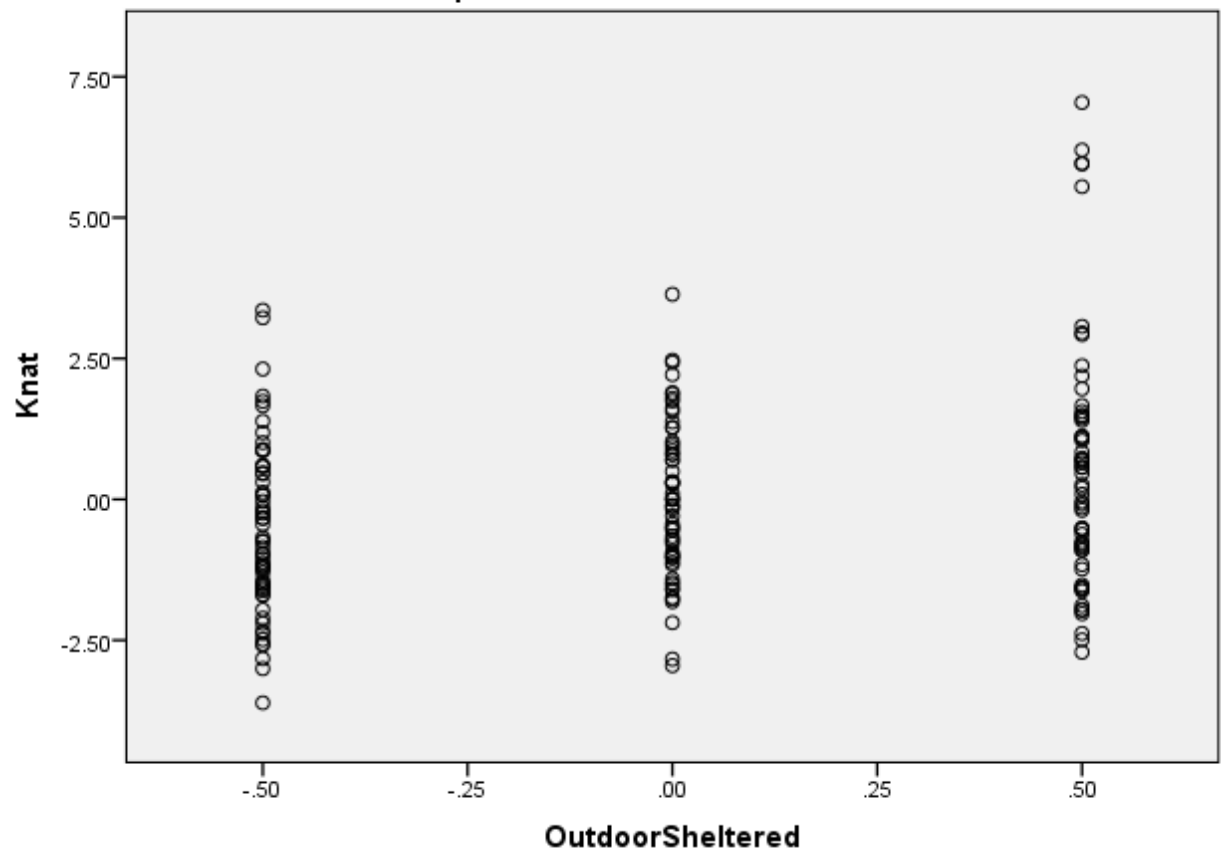
Partial Regression Plot
Dependent Variable: Knat

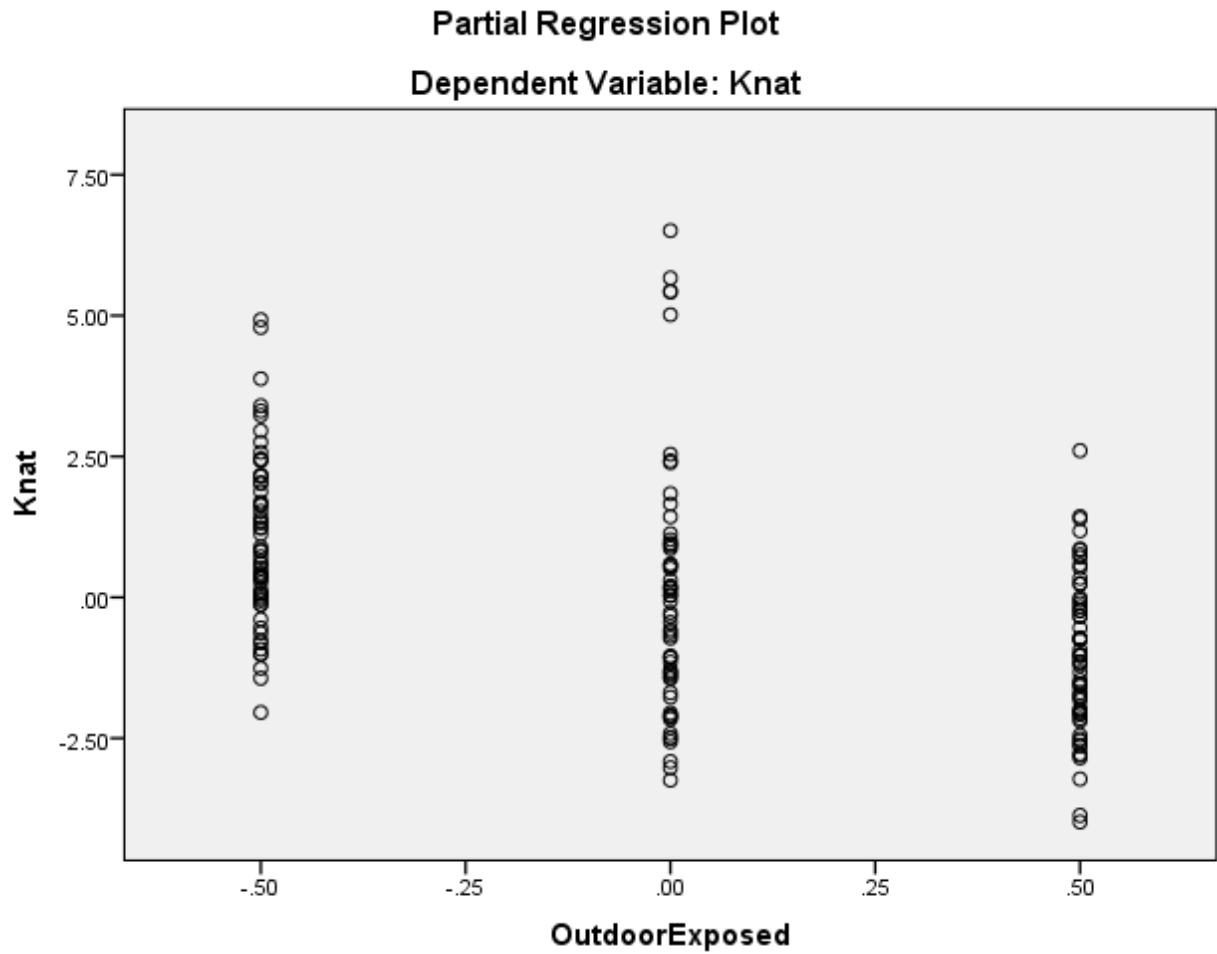


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER WS CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
WS	10.028	3.8857	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	WS	CH	OutdoorSheltered
Pearson Correlation	Knat	1.000	.747	-.744	.266
	WS	.747	1.000	-.572	.000
	CH	-.744	-.572	1.000	.000
	OutdoorSheltered	.266	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000
	WS	.000	.	.000	.500
	CH	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.
	OutdoorExposed	.000	.500	.500	.000
N	Knat	180	180	180	180
	WS	180	180	180	180
	CH	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorExposed
Pearson Correlation	Knat	-.329
	WS	.000

Sig. (1-tailed)	CH	.000
	OutdoorSheltered	-.500
	OutdoorExposed	1.000
	Knat	.000
	WS	.500
	CH	.500
	OutdoorSheltered	.000
	OutdoorExposed	.
	Knat	.180
	WS	.180
N	CH	180
	OutdoorSheltered	180
	OutdoorExposed	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, WS ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.911 ^a	.829	.825	1.56145	1.491

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, WS

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2068.641	4	517.160	212.114	.000 ^b
	Residual	426.671	175	2.438		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, WS

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	13.740	1.211		11.343	.000
	WS	.459	.037	.478	12.534	.000
	CH	-.870	.070	-.471	-12.355	.000
	OutdoorSheltered	1.066	.285	.135	3.740	.000
	OutdoorExposed	-2.069	.285	-.262	-7.257	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	11.349	16.131			
	WS	.387	.531	.747	.688	.392
	CH	-1.009	-.731	-.744	-.683	-.386
	OutdoorSheltered	.504	1.629	.266	.272	.117
	OutdoorExposed	-2.631	-1.506	-.329	-.481	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	WS	.673	1.486
	CH	.673	1.486
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics ^a							
Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	WS	CH	OutdoorSheltere d
1	1	3.605	1.000	.00	.01	.00	.02
	2	1.000	1.899	.00	.00	.00	.25
	3	.274	3.627	.00	.04	.00	.70
	4	.115	5.591	.01	.44	.04	.03
	5	.006	25.311	.99	.51	.95	.01

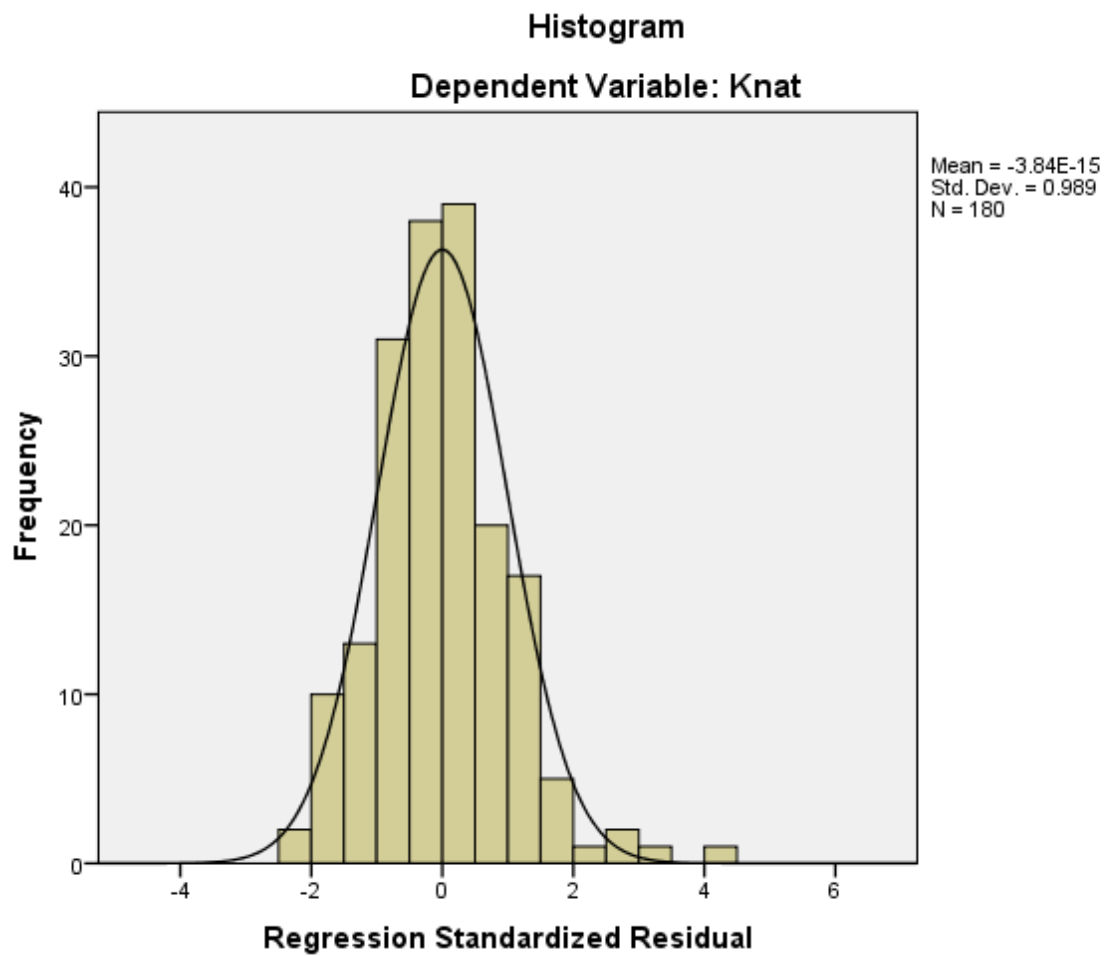
Collinearity Diagnostics ^a		
Model	Dimension	Variance Proportions
		OutdoorExposed
1	1	.02
	2	.25
	3	.70
	4	.03
	5	.01

a. Dependent Variable: Knat

Residuals Statistics ^a					
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.4983	15.9130	6.3209	3.39951	180
Residual	-3.60074	6.70237	.00000	1.54390	180
Std. Predicted Value	-2.300	2.822	.000	1.000	180
Std. Residual	-2.306	4.292	.000	.989	180

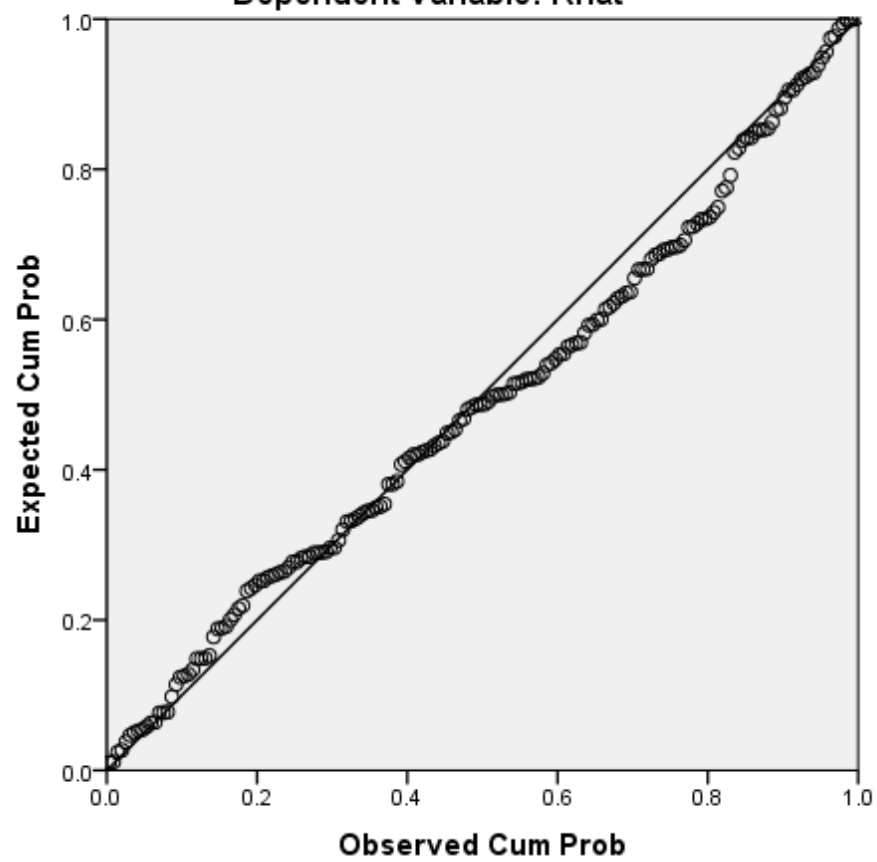
a. Dependent Variable: Knat

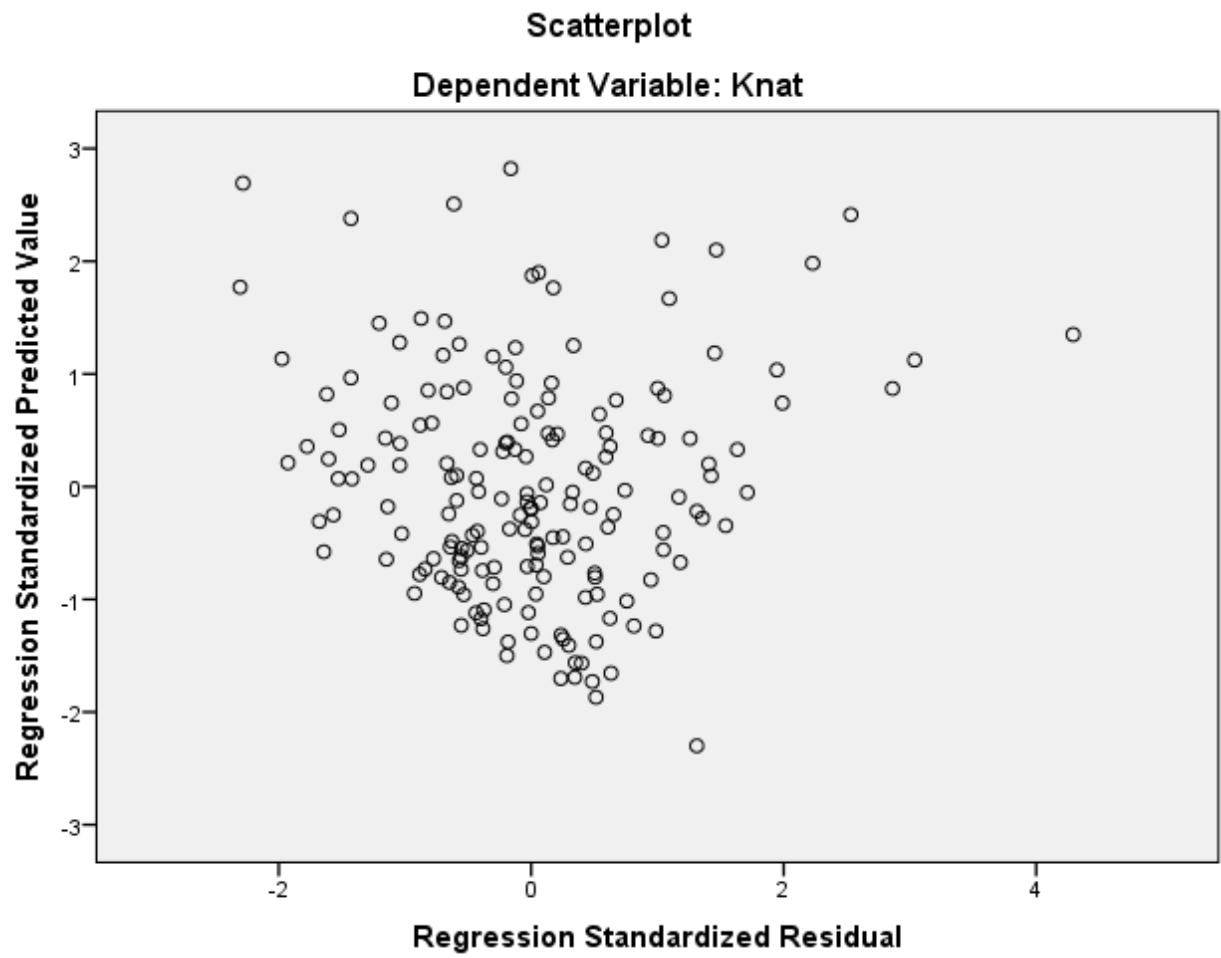
Charts



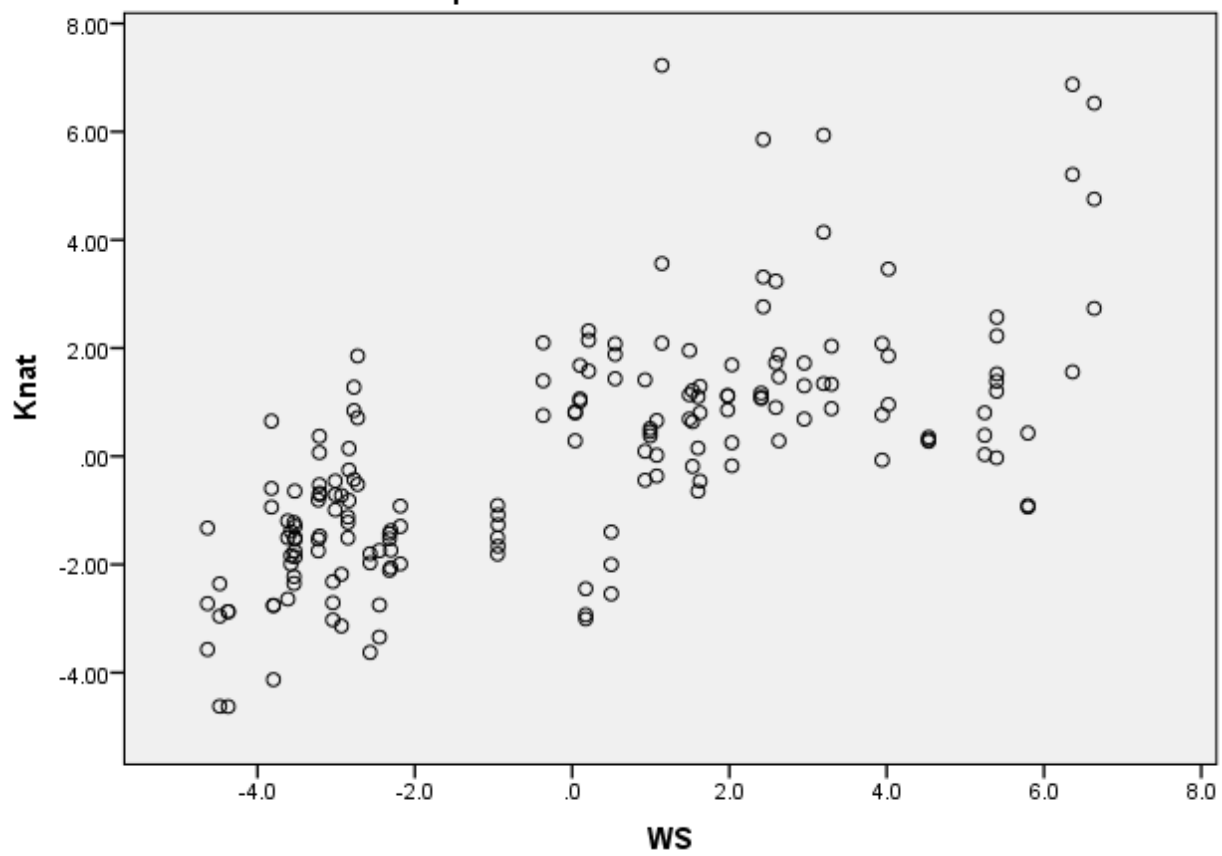
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

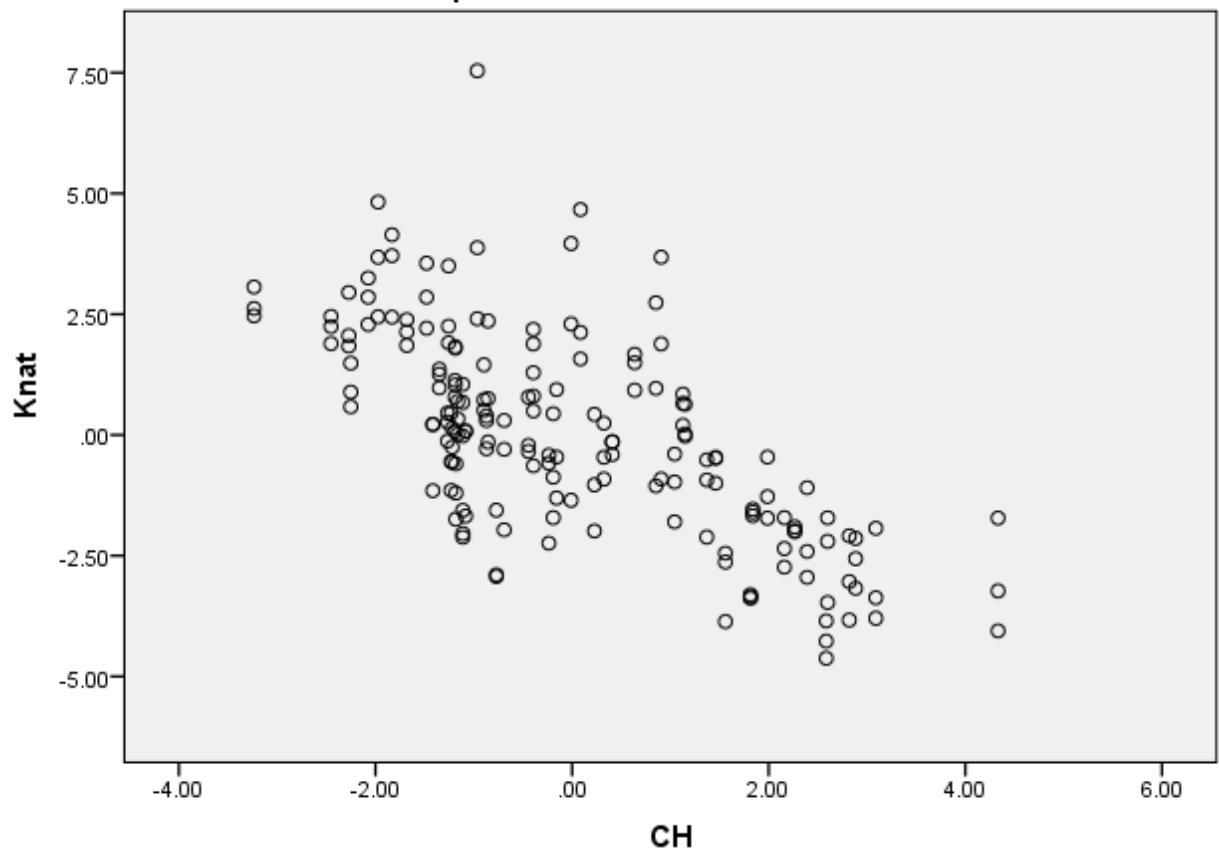




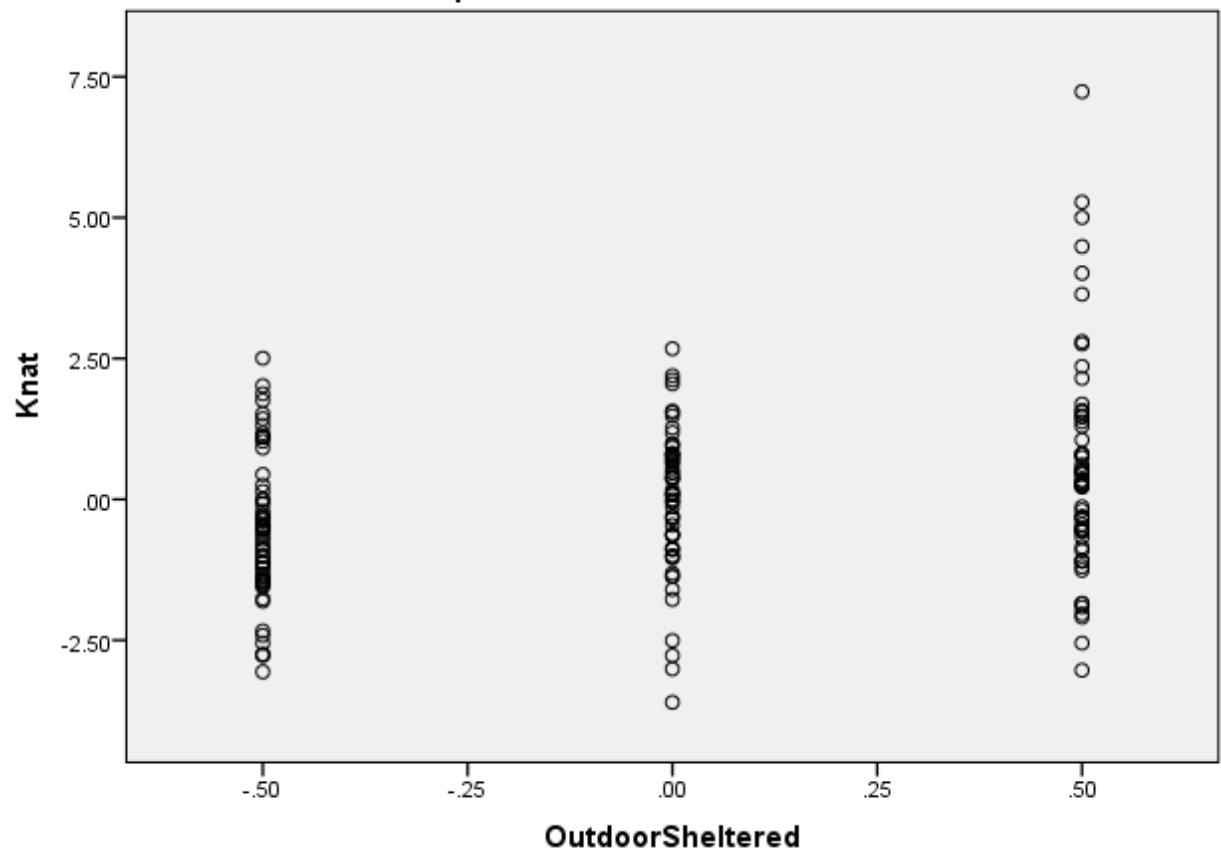
Partial Regression Plot
Dependent Variable: Knat

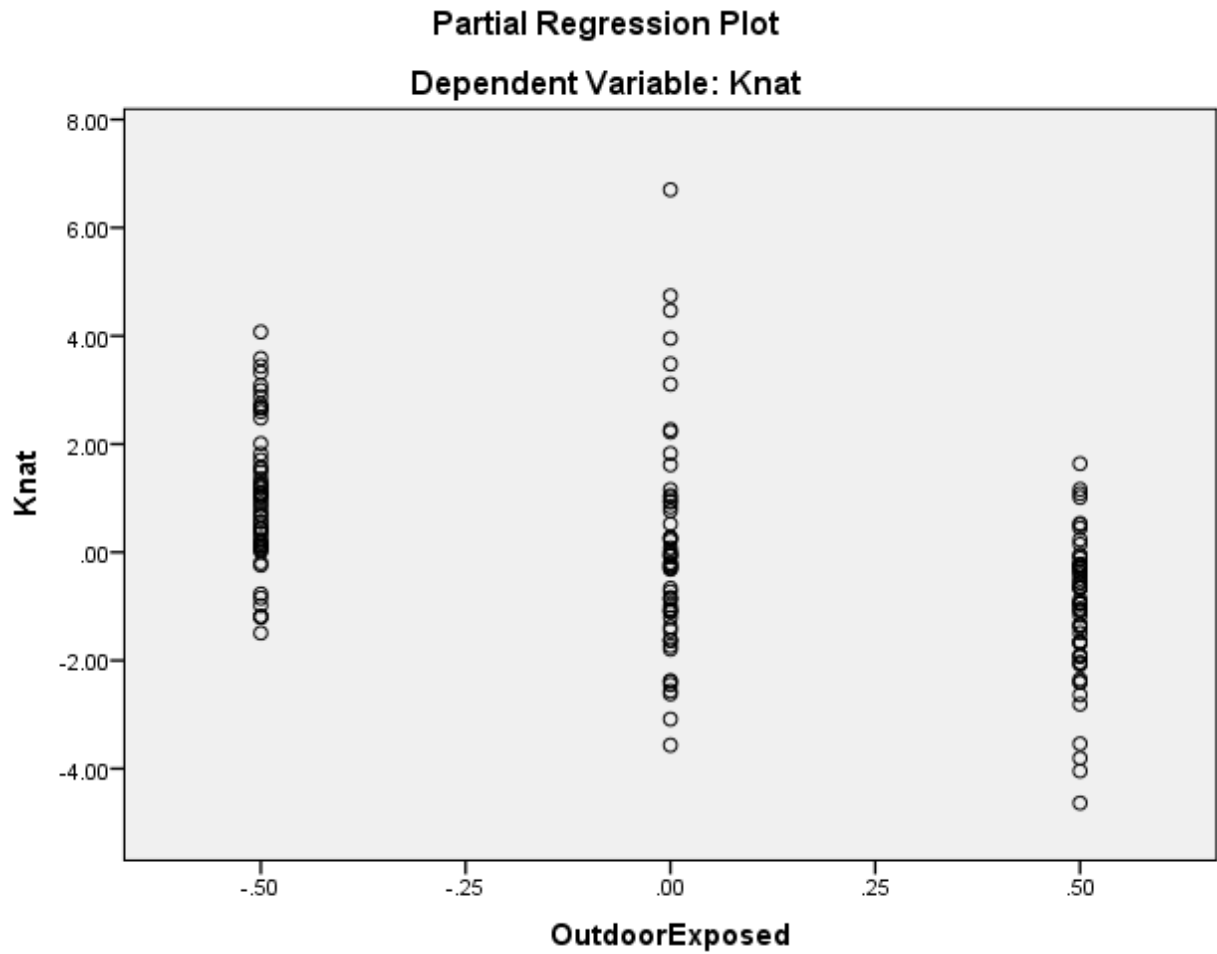


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knot





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER fc OPI CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
OPI	9.633	.4043	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	OPI	CH	OutdoorSheltered
Pearson Correlation	Knat	1.000	-.777	-.738	-.744	.266
	fc	-.777	1.000	.742	.723	.000
	OPI	-.738	.742	1.000	.660	.000
	CH	-.744	.723	.660	1.000	.000
	OutdoorSheltered	.266	.000	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	fc	.000	.	.000	.000	.500
	OPI	.000	.000	.	.000	.500
	CH	.000	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.500	.
	OutdoorExposed	.000	.500	.500	.500	.000
N	Knat	180	180	180	180	180
	fc	180	180	180	180	180
	OPI	180	180	180	180	180
	CH	180	180	180	180	180
	OutdoorSheltered	180	180	180	180	180
	OutdoorExposed	180	180	180	180	180

Correlations			
		OutdoorExposed	
Pearson Correlation	Knat		-.329
	fc		.000
	OPI		.000
	CH		.000
	OutdoorSheltered		-.500
	OutdoorExposed		1.000
Sig. (1-tailed)	Knat		.000
	fc		.500
	OPI		.500
	CH		.500
	OutdoorSheltered		.000
	OutdoorExposed		.
N	Knat		180
	fc		180
	OPI		180
	CH		180
	OutdoorSheltered		180
	OutdoorExposed		180

Variables Entered/Removed ^a			
Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, OPI, fc ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.909 ^a	.827	.822	1.57635	1.507

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, OPI, fc

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2062.942	5	412.588	166.039	.000 ^b
	Residual	432.370	174	2.485		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, OPI, fc

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	41.239	3.951		10.438	.000
	fc	-.070	.011	-.350	-6.583	.000
	OPI	-2.529	.451	-.274	-5.607	.000
	CH	-.573	.088	-.310	-6.535	.000
	OutdoorSheltered	1.066	.288	.135	3.705	.000
	OutdoorExposed	-2.069	.288	-.262	-7.188	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	33.441	49.036			
	fc	-.091	-.049	-.777	-.447	-.208
	OPI	-3.420	-1.639	-.738	-.391	-.177
	CH	-.746	-.400	-.744	-.444	-.206
	OutdoorSheltered	.498	1.634	.266	.270	.117
	OutdoorExposed	-2.637	-1.501	-.329	-.479	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	.353	2.835
	OPI	.417	2.396
	CH	.443	2.259
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	fc	OPI	CH
1	1	4.557	1.000	.00	.00	.00	.00
	2	1.000	2.135	.00	.00	.00	.00
	3	.305	3.865	.00	.04	.00	.00
	4	.131	5.905	.00	.35	.00	.00
	5	.007	24.990	.02	.30	.01	.97
	6	.000	106.128	.98	.31	.99	.03

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.01	.01
	2	.25	.25
	3	.64	.64
	4	.10	.10
	5	.00	.00
	6	.00	.00

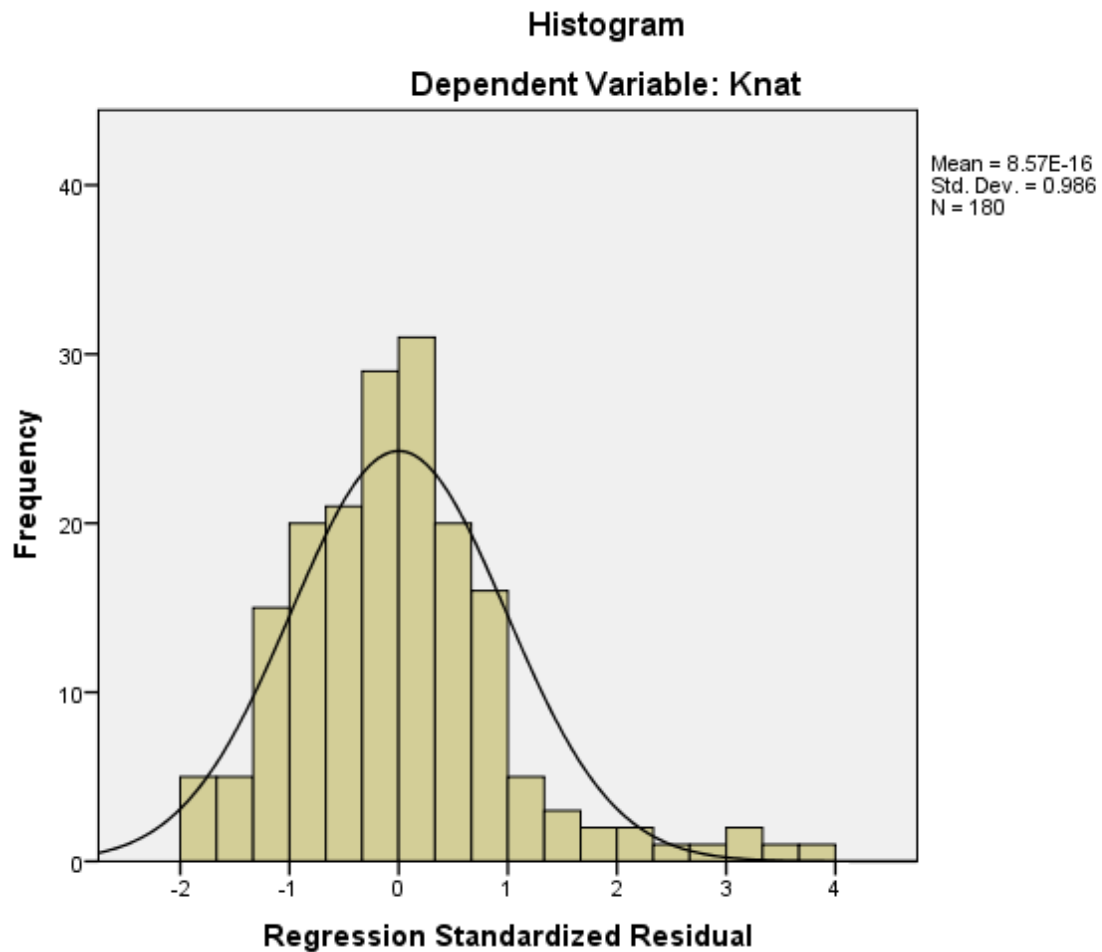
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.2954	15.5902	6.3209	3.39482	180
Residual	-2.76935	6.04743	.00000	1.55418	180
Std. Predicted Value	-2.538	2.730	.000	1.000	180
Std. Residual	-1.757	3.836	.000	.986	180

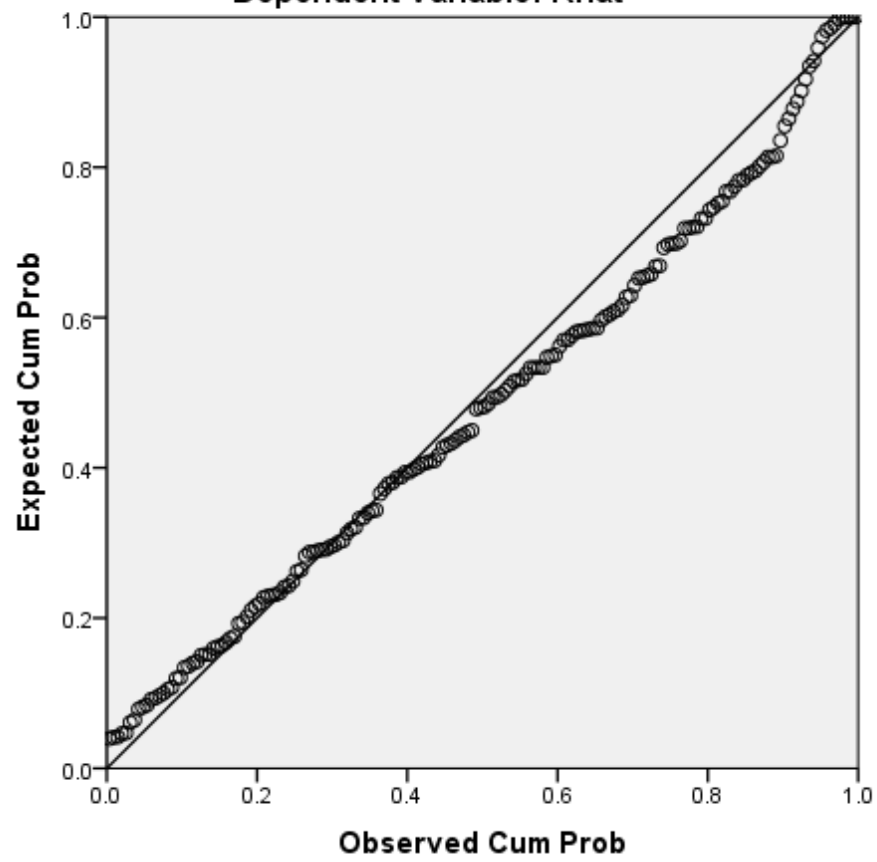
a. Dependent Variable: Knat

Charts



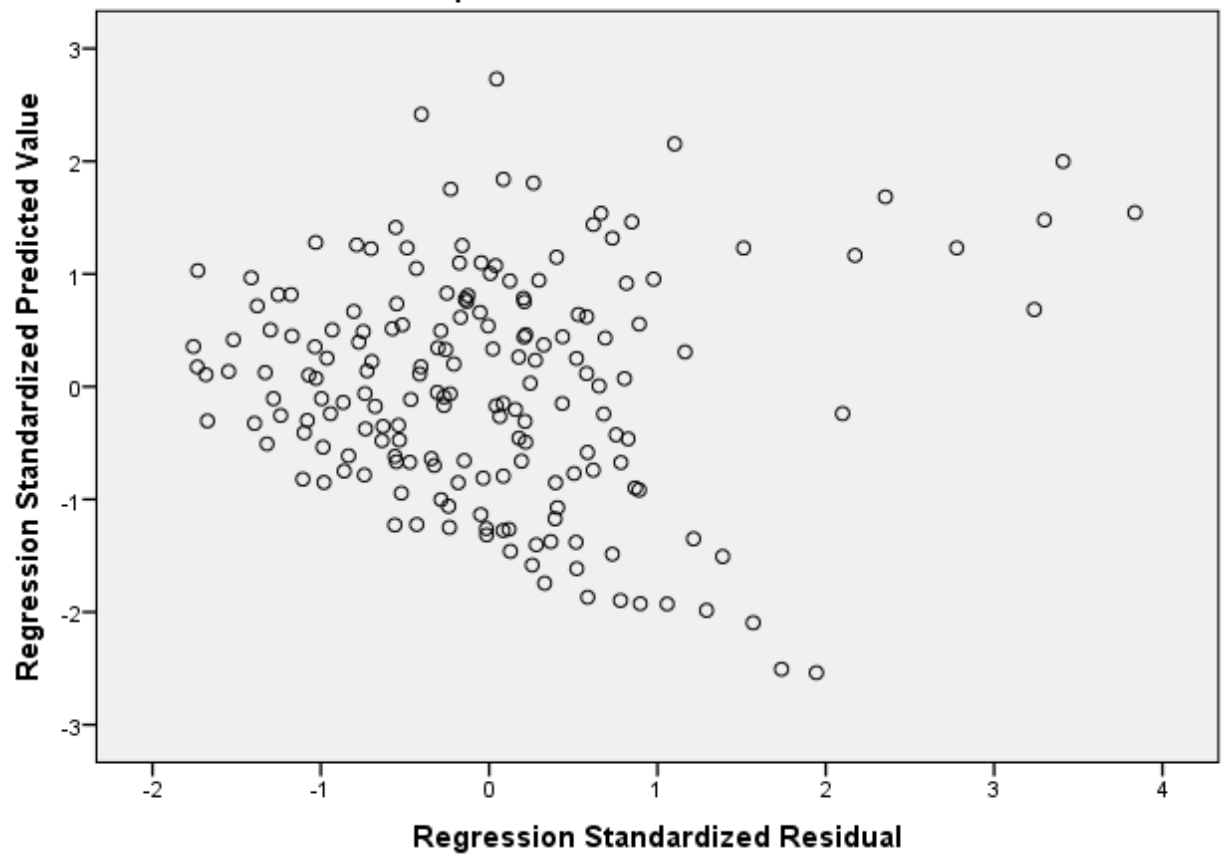
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

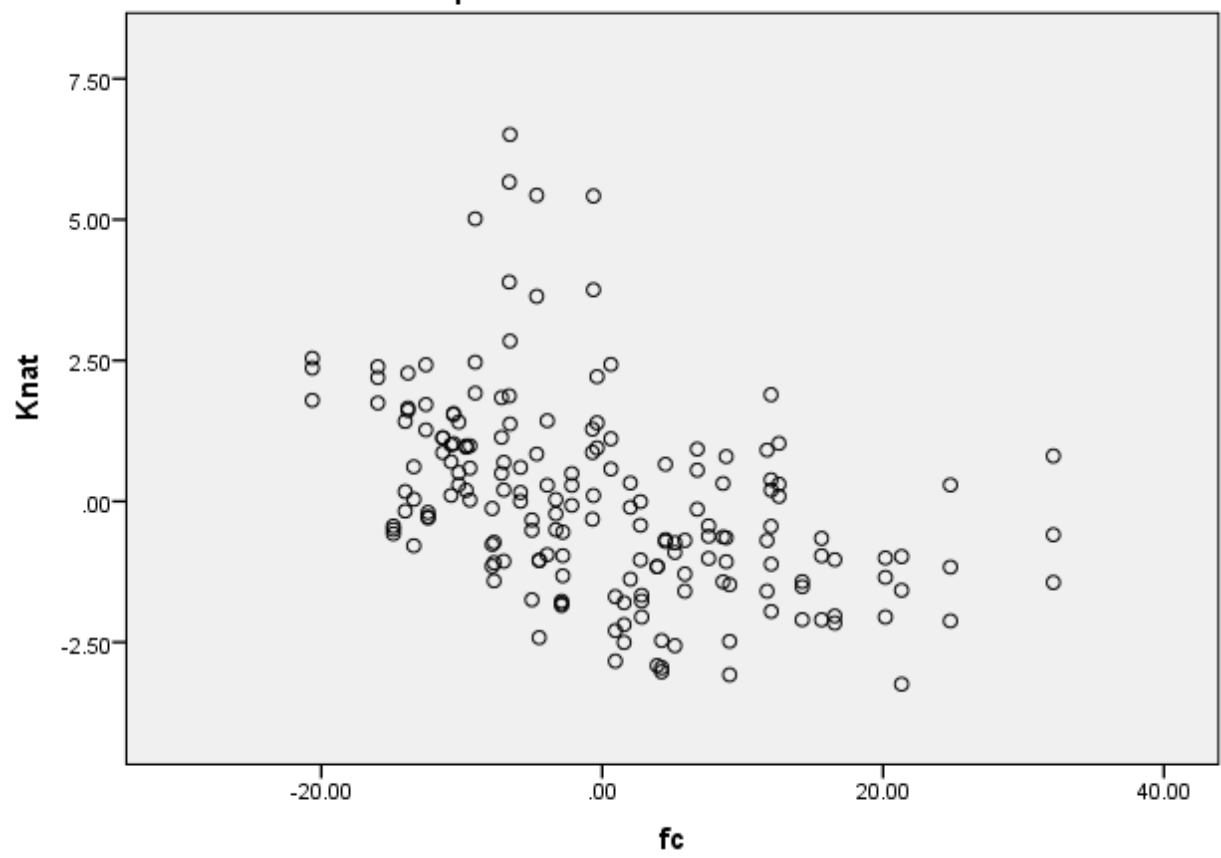


Scatterplot

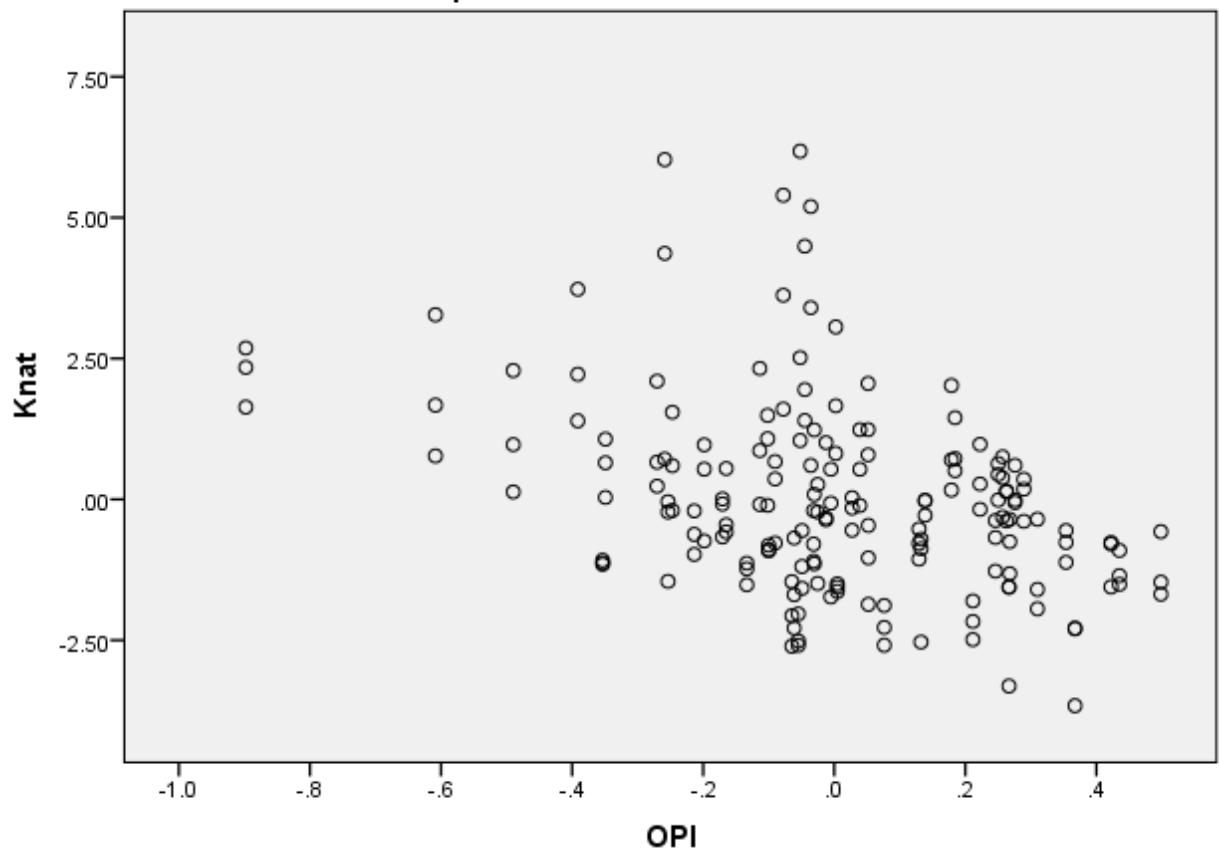
Dependent Variable: Knat



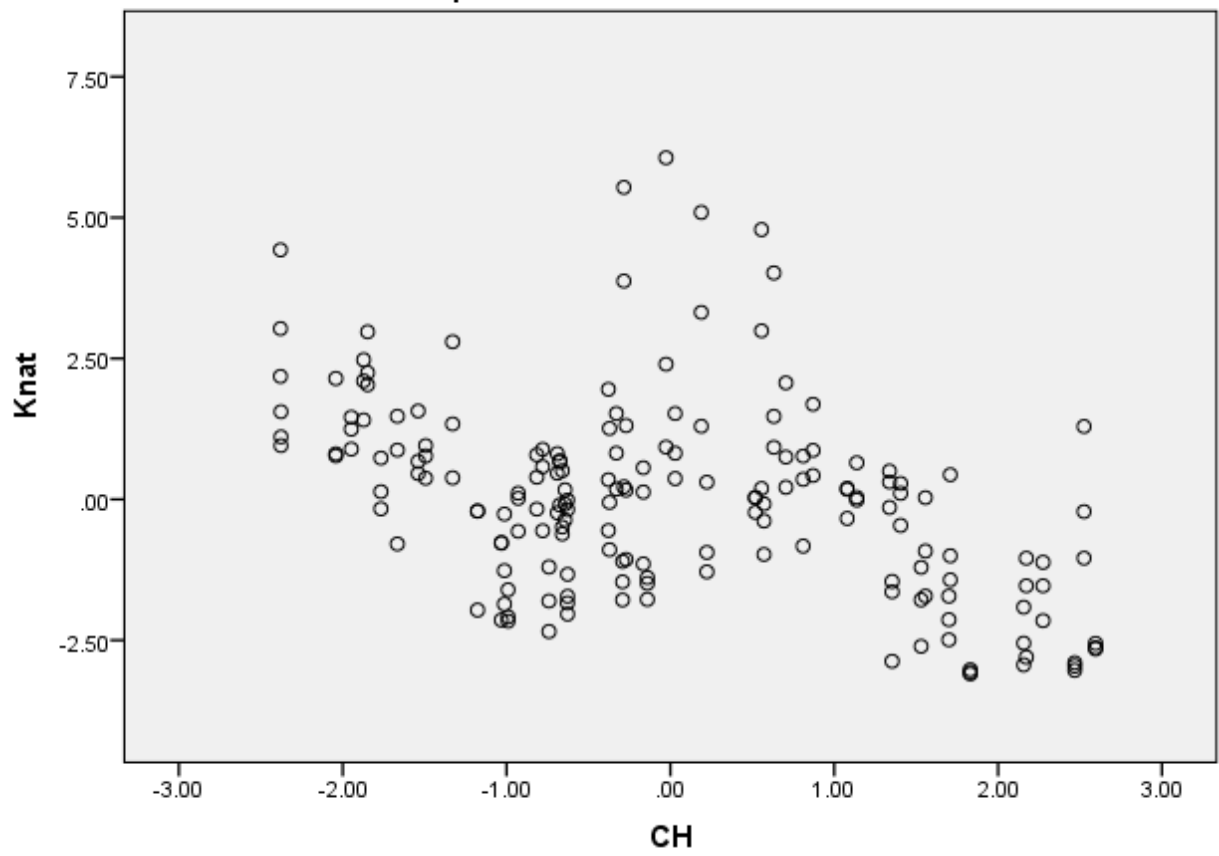
Partial Regression Plot
Dependent Variable: Knat



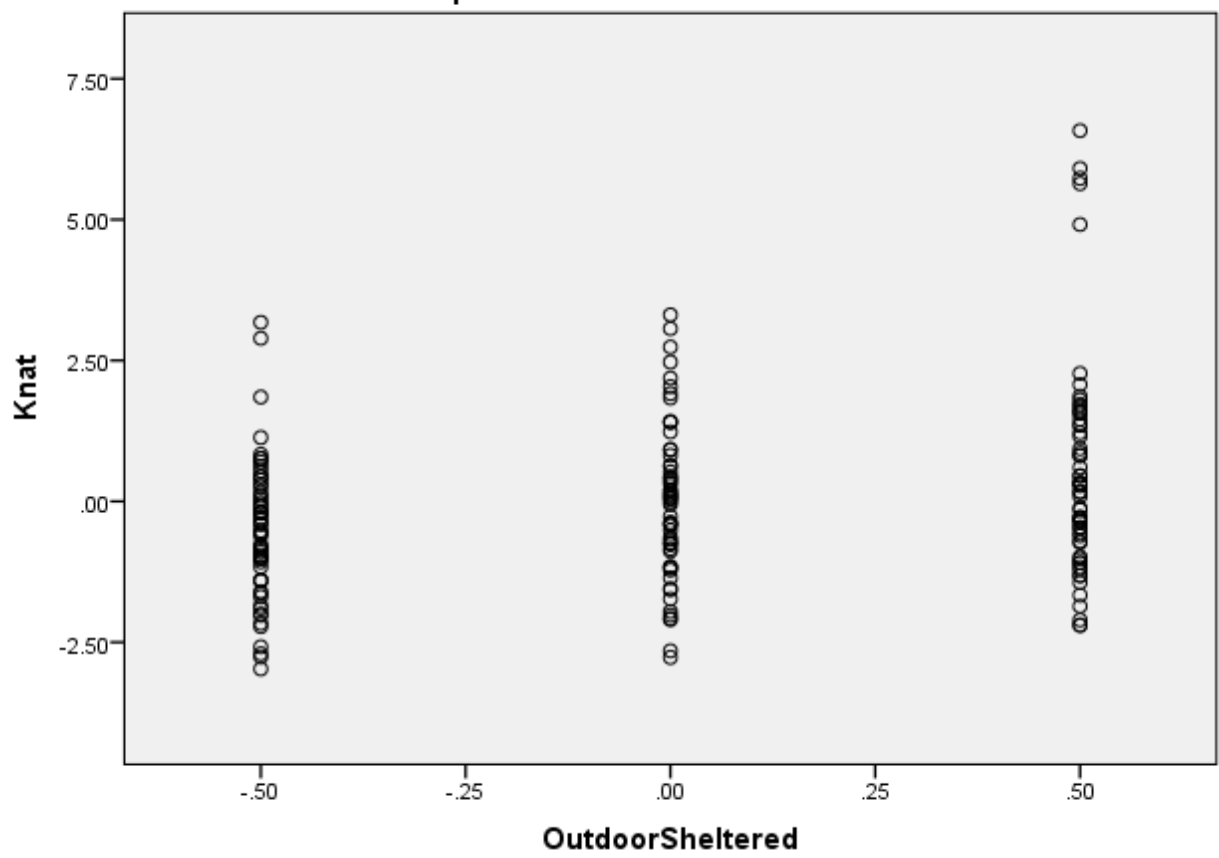
Partial Regression Plot
Dependent Variable: Knat

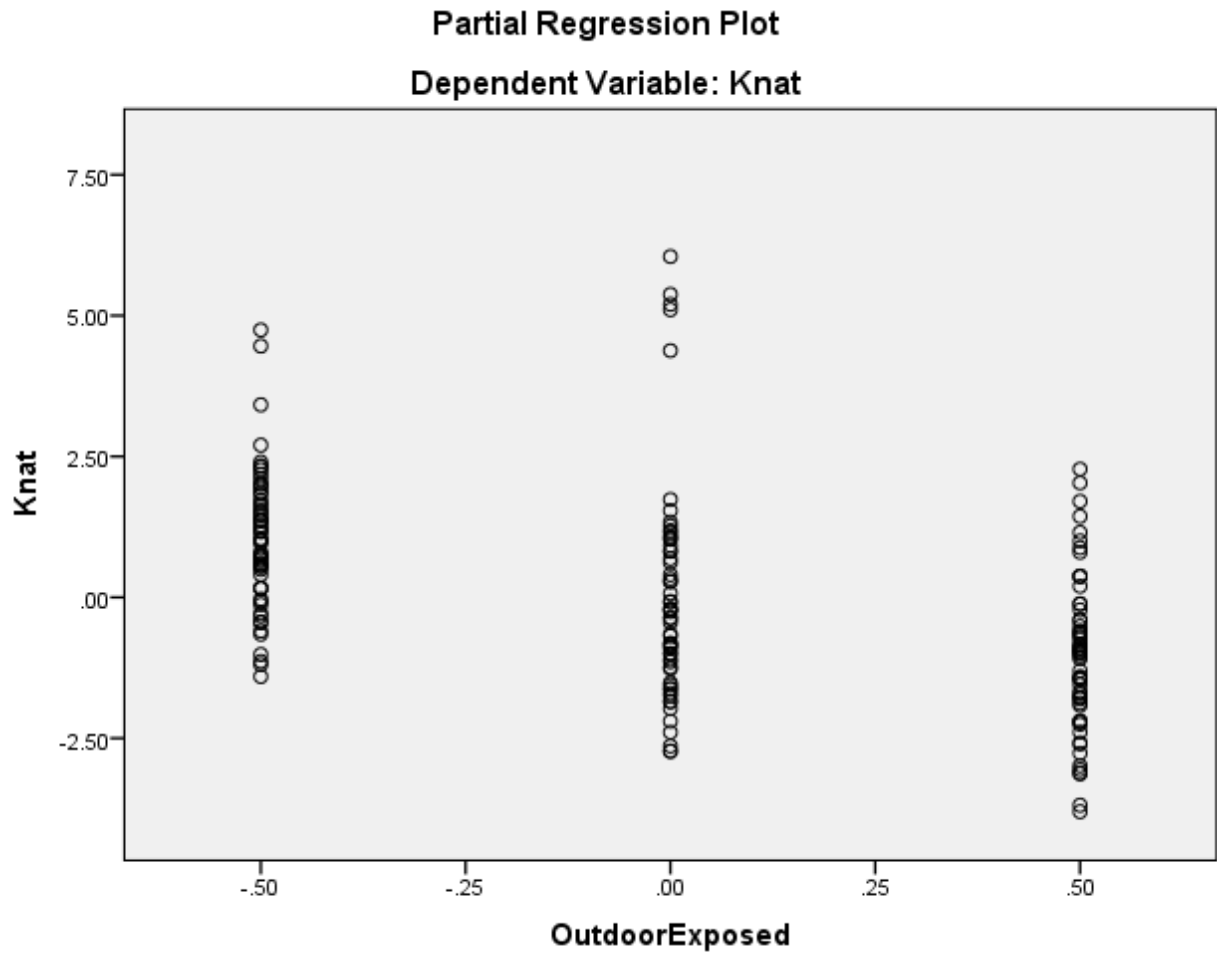


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knot





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER fc WS CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
WS	10.028	3.8857	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	WS	CH	OutdoorSheltered
Pearson Correlation	Knat	1.000	-.777	.747	-.744	.266
	fc	-.777	1.000	-.718	.723	.000
	WS	.747	-.718	1.000	-.572	.000
	CH	-.744	.723	-.572	1.000	.000
	OutdoorSheltered	.266	.000	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	fc	.000	.	.000	.000	.500
	WS	.000	.000	.	.000	.500
	CH	.000	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.500	.
	OutdoorExposed	.000	.500	.500	.500	.000
N	Knat	180	180	180	180	180
	fc	180	180	180	180	180
	WS	180	180	180	180	180
	CH	180	180	180	180	180
	OutdoorSheltered	180	180	180	180	180
	OutdoorExposed	180	180	180	180	180

Correlations			
		OutdoorExposed	
Pearson Correlation	Knat		-.329
	fc		.000
	WS		.000
	CH		.000
	OutdoorSheltered		-.500
	OutdoorExposed		1.000
Sig. (1-tailed)	Knat		.000
	fc		.500
	WS		.500
	CH		.500
	OutdoorSheltered		.000
	OutdoorExposed		.
N	Knat		180
	fc		180
	WS		180
	CH		180
	OutdoorSheltered		180
	OutdoorExposed		180

Variables Entered/Removed ^a			
Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, WS, fc ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.925 ^a	.855	.851	1.44216	1.452

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, WS, fc

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2133.420	5	426.684	205.153	.000 ^b
	Residual	361.892	174	2.080		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, WS, fc

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	13.747	1.119		12.287	.000
	fc	-.056	.010	-.277	-5.581	.000
	WS	.339	.040	.353	8.453	.000
	CH	-.632	.078	-.342	-8.131	.000
	OutdoorSheltered	1.066	.263	.135	4.049	.000
	OutdoorExposed	-2.069	.263	-.262	-7.857	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	11.539	15.955			
	fc	-.075	-.036	-.777	-.390	-.161
	WS	.260	.418	.747	.540	.244
	CH	-.785	-.479	-.744	-.525	-.235
	OutdoorSheltered	.546	1.586	.266	.293	.117
	OutdoorExposed	-2.589	-1.549	-.329	-.512	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	.339	2.948
	WS	.479	2.088
	CH	.471	2.124
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	fc	WS	CH
1	1	4.391	1.000	.00	.00	.00	.00
	2	1.000	2.095	.00	.00	.00	.00
	3	.313	3.743	.00	.11	.03	.00
	4	.267	4.054	.00	.02	.09	.00
	5	.023	13.703	.08	.80	.70	.12
	6	.005	28.733	.92	.07	.18	.88

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.01	.01
	2	.25	.25
	3	.26	.26
	4	.47	.47
	5	.01	.01
	6	.00	.00

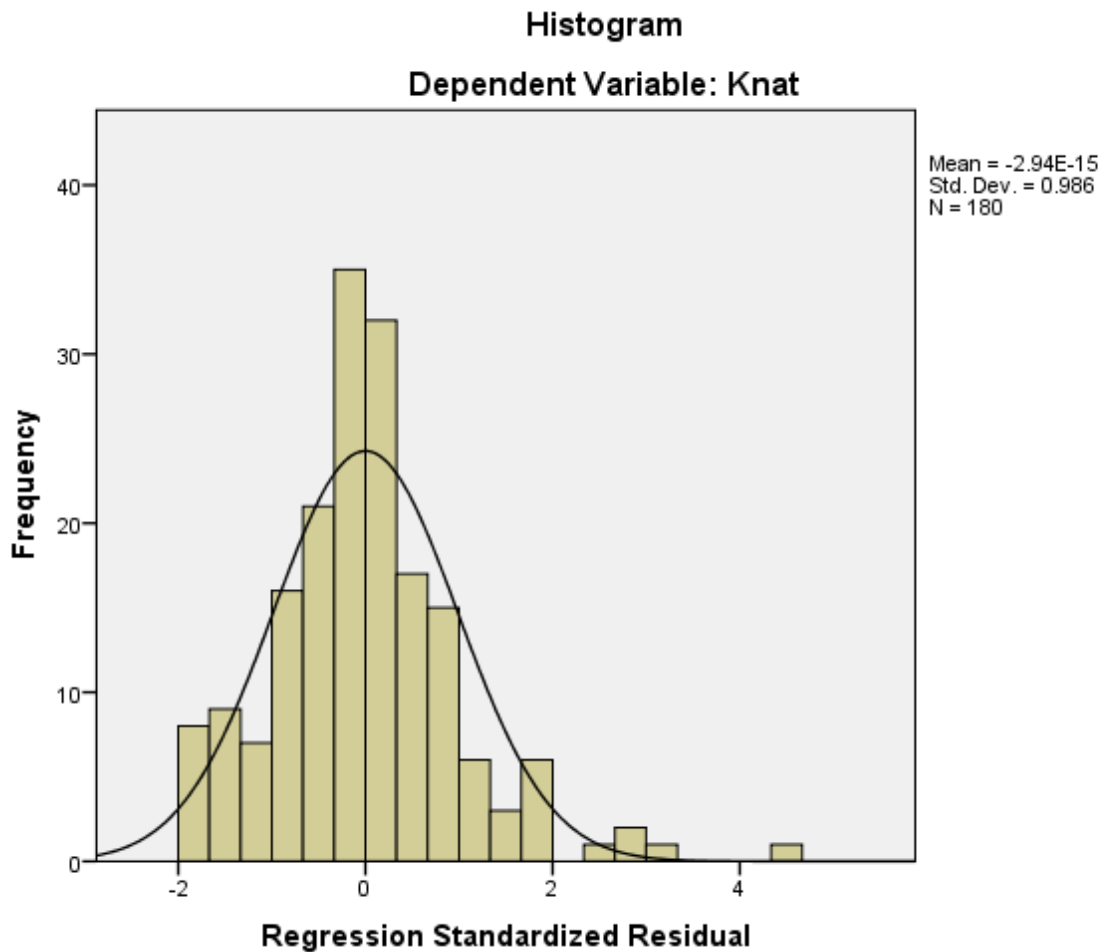
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.0802	15.2008	6.3209	3.45233	180
Residual	-2.83421	6.26190	.00000	1.42188	180
Std. Predicted Value	-2.433	2.572	.000	1.000	180
Std. Residual	-1.965	4.342	.000	.986	180

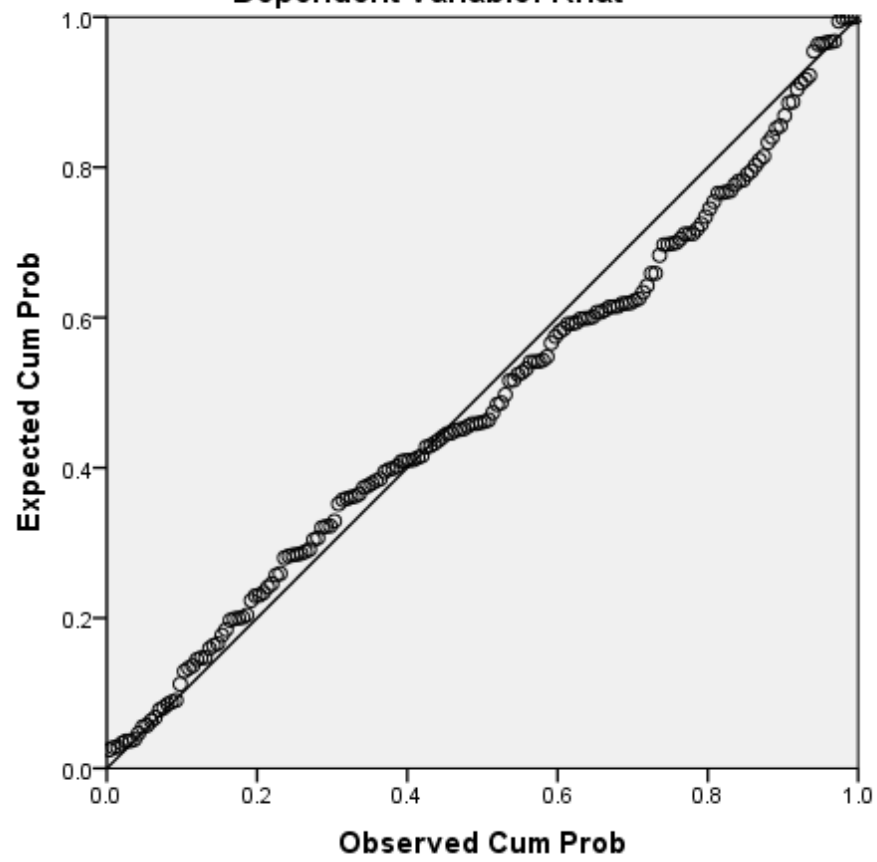
a. Dependent Variable: Knat

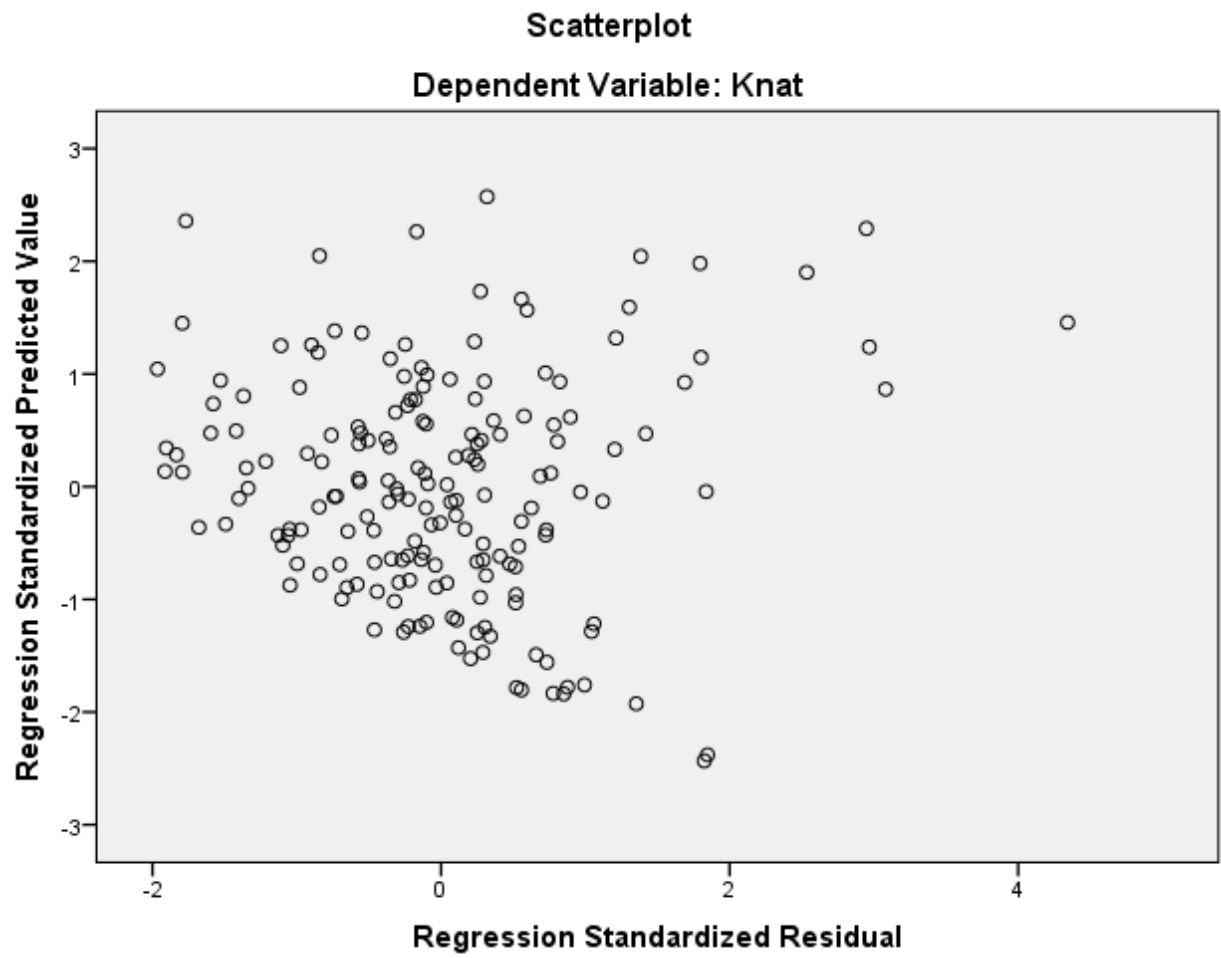
Charts



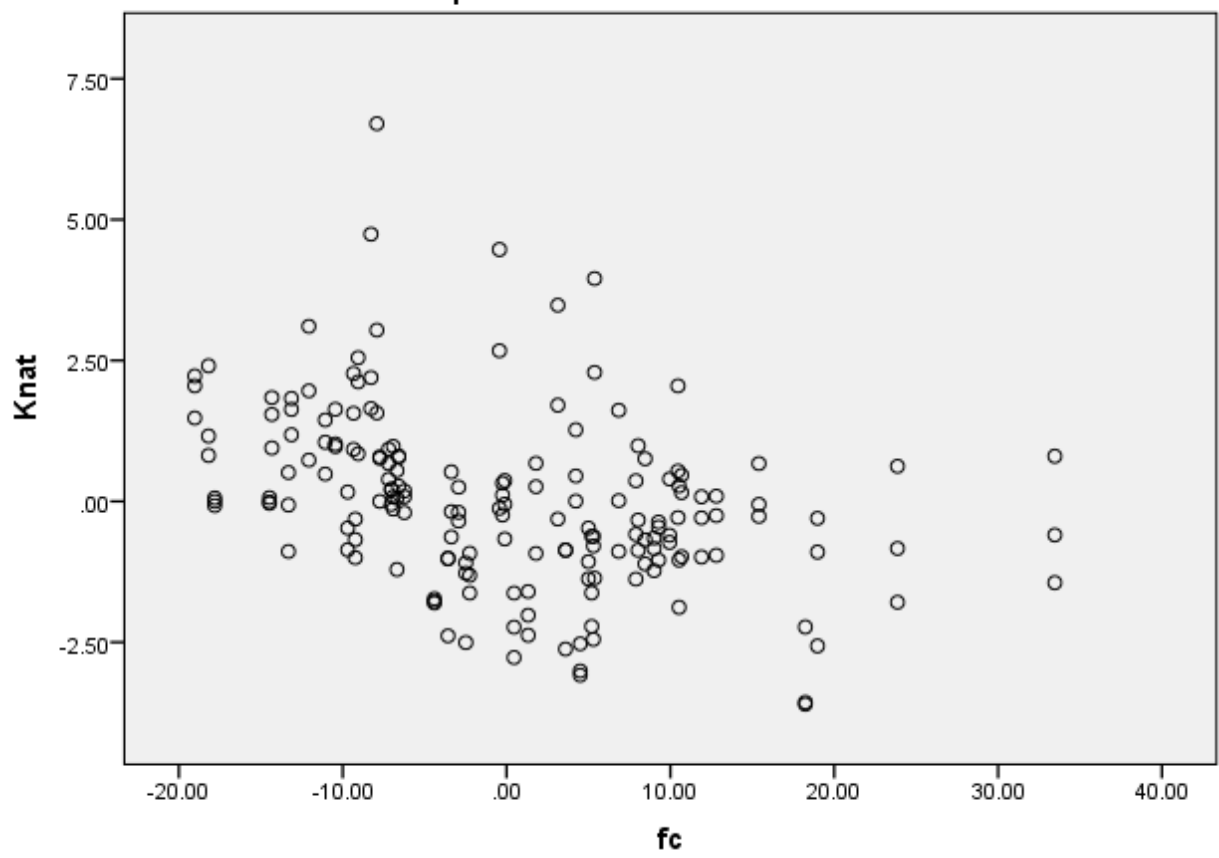
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

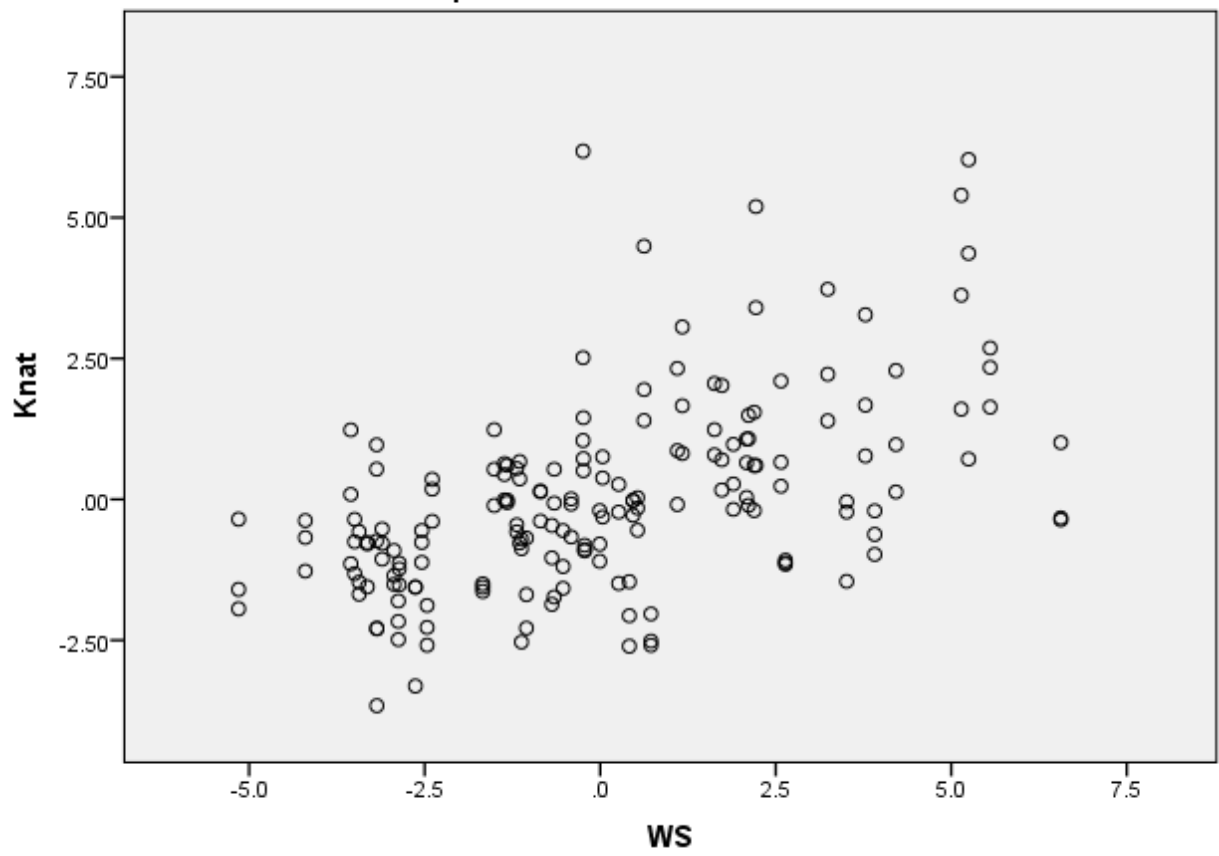




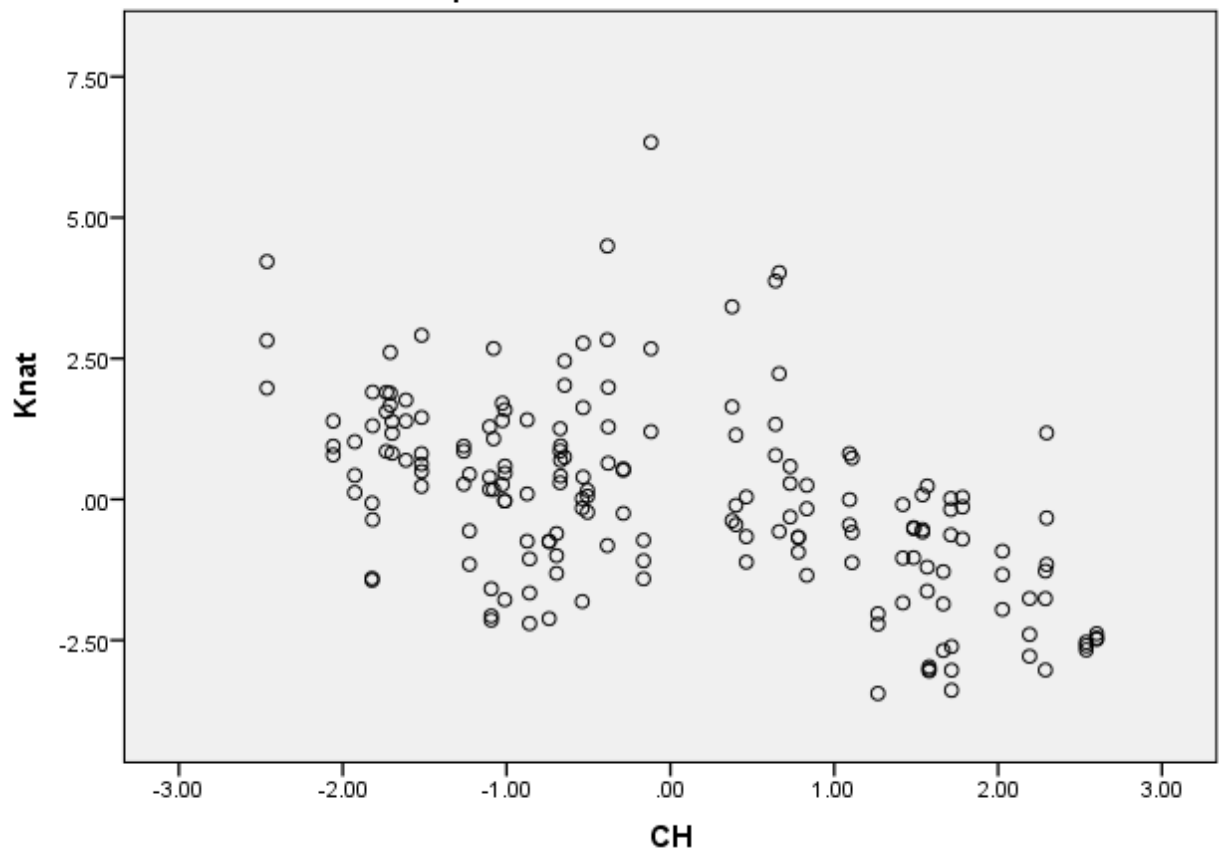
Partial Regression Plot
Dependent Variable: Knat



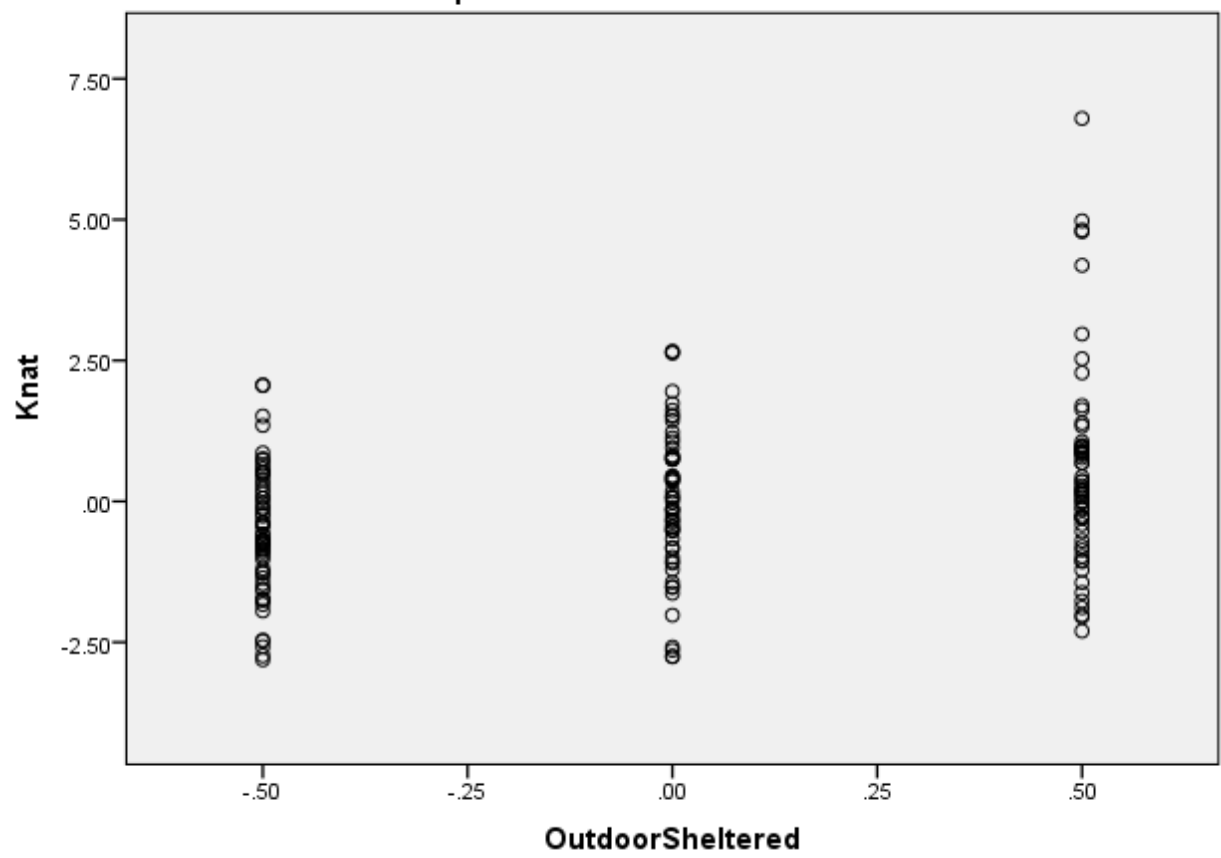
Partial Regression Plot
Dependent Variable: Knat

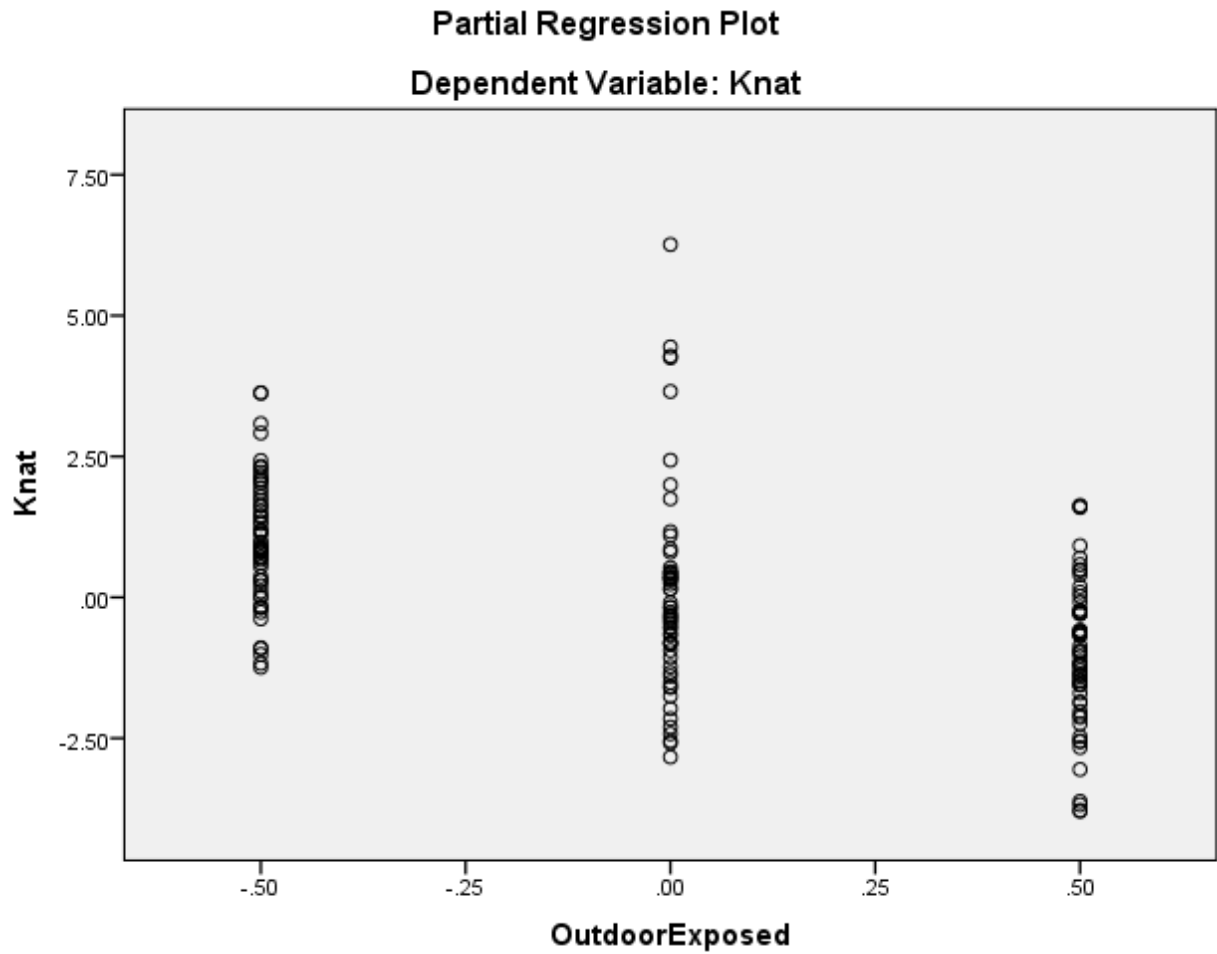


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C fc CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
fc	35.8872	18.56530	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w b	C	fc	CH
Pearson Correlation	Knat	1.000	.591	-.735	-.777	-.744
	w_b	.591	1.000	-.410	-.600	-.511
	C	-.735	-.410	1.000	.647	.834
	fc	-.777	-.600	.647	1.000	.723
	CH	-.744	-.511	.834	.723	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	w_b	.000	.	.000	.000	.000
	C	.000	.000	.	.000	.000
	fc	.000	.000	.000	.	.000
	CH	.000	.000	.000	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	w_b	180	180	180	180	180
	C	180	180	180	180	180
	fc	180	180	180	180	180
	CH	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	w_b	.000	.000
	C	.000	.000
	fc	.000	.000
	CH	.000	.000
	OutdoorSheltered	1.000	-.500
Sig. (1-tailed)	OutdoorExposed	-.500	1.000
	Knat	.000	.000
	w_b	.500	.500
	C	.500	.500
	fc	.500	.500
	CH	.500	.500
N	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
	Knat	180	180
	w_b	180	180
	C	180	180
	fc	180	180
	CH	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, w_b, fc, C ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.918 ^a	.842	.837	1.50879	1.441

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, fc, C

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2101.489	6	350.248	153.858	.000 ^b
	Residual	393.823	173	2.276		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, fc, C

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	12.589	1.412		8.918	.000
	w_b	4.926	1.102	.171	4.472	.000
	C	-.013	.002	-.329	-5.952	.000
	fc	-.078	.010	-.388	-8.102	.000
	CH	-.187	.114	-.101	-1.645	.102
	OutdoorSheltered	1.066	.275	.135	3.870	.000
	OutdoorExposed	-2.069	.275	-.262	-7.510	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	9.803	15.375			

w_b	2.752	7.100	.591	.322	.135
C	-.017	-.009	-.735	-.412	-.180
fc	-.097	-.059	-.777	-.524	-.245
CH	-.412	.037	-.744	-.124	-.050
OutdoorSheltered	.522	1.610	.266	.282	.117
OutdoorExposed	-2.613	-1.525	-.329	-.496	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.623	1.604
	C	.299	3.348
	fc	.397	2.519
	CH	.241	4.155
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	C	fc
1	1	5.405	1.000	.00	.00	.00	.00
	2	1.000	2.325	.00	.00	.00	.00
	3	.326	4.073	.00	.00	.01	.05
	4	.203	5.161	.00	.06	.00	.13
	5	.048	10.587	.00	.03	.45	.52
	6	.015	18.852	.12	.72	.14	.27
	7	.003	42.082	.88	.19	.40	.03

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		CH	OutdoorSheltered	OutdoorExposed
1	1	.00	.01	.01
	2	.00	.25	.25

3	.00	.55	.55
4	.00	.19	.19
5	.00	.00	.00
6	.09	.01	.01
7	.91	.00	.00

a. Dependent Variable: Knat

Residuals Statistics^a

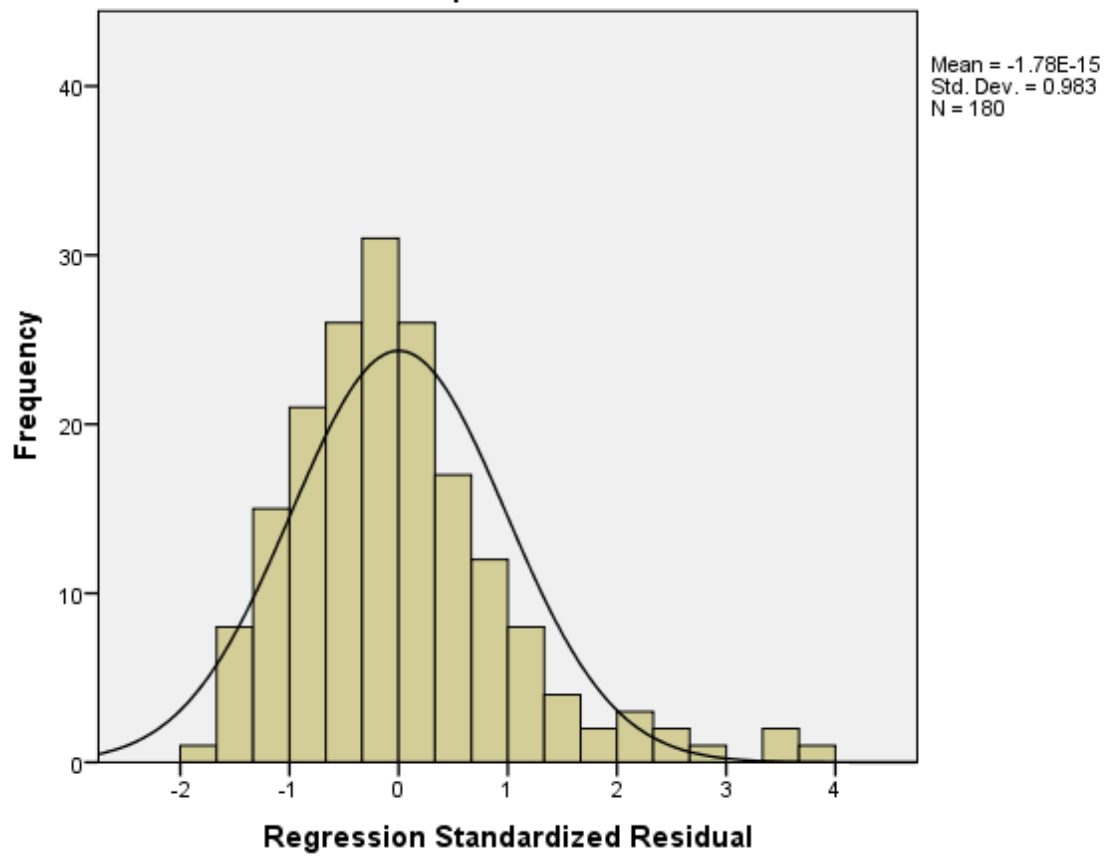
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.7518	13.3307	6.3209	3.42639	180
Residual	-2.85121	5.73298	.00000	1.48328	180
Std. Predicted Value	-2.648	2.046	.000	1.000	180
Std. Residual	-1.890	3.800	.000	.983	180

a. Dependent Variable: Knat

Charts

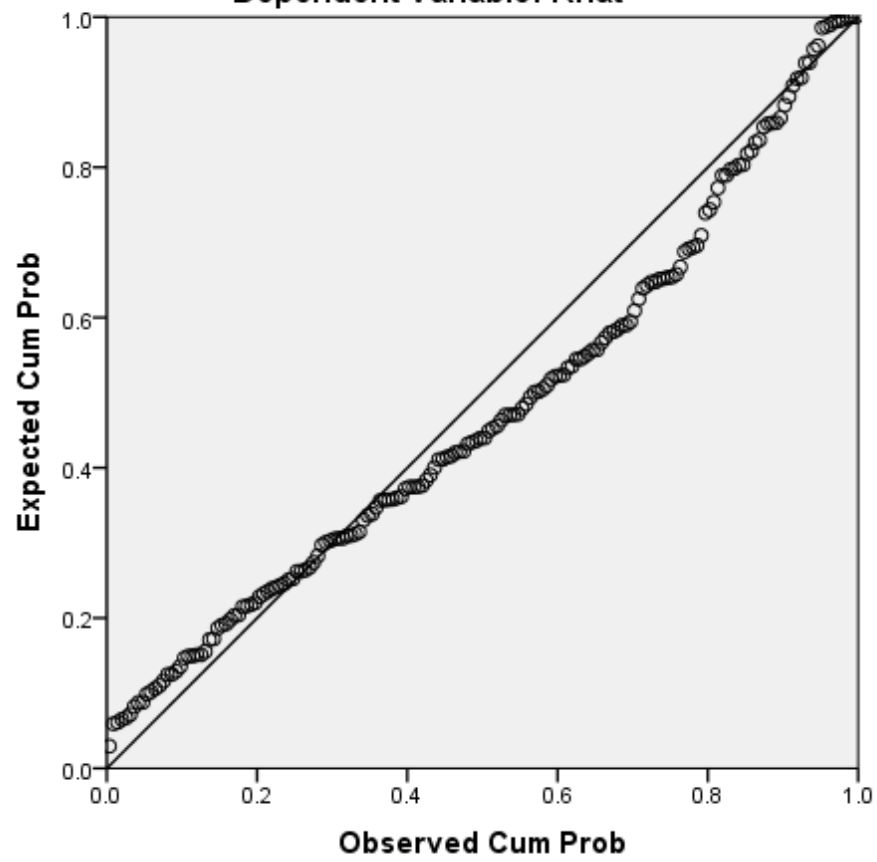
Histogram

Dependent Variable: Knot



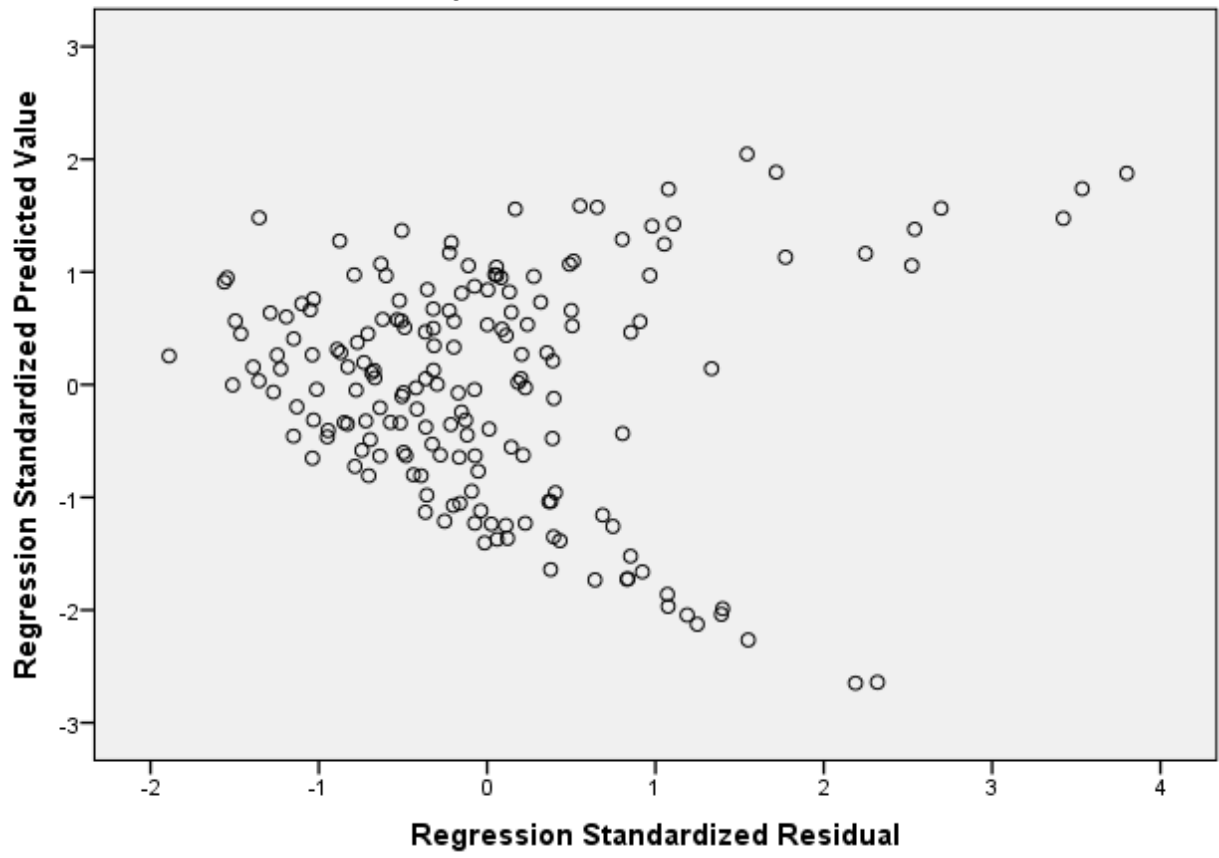
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

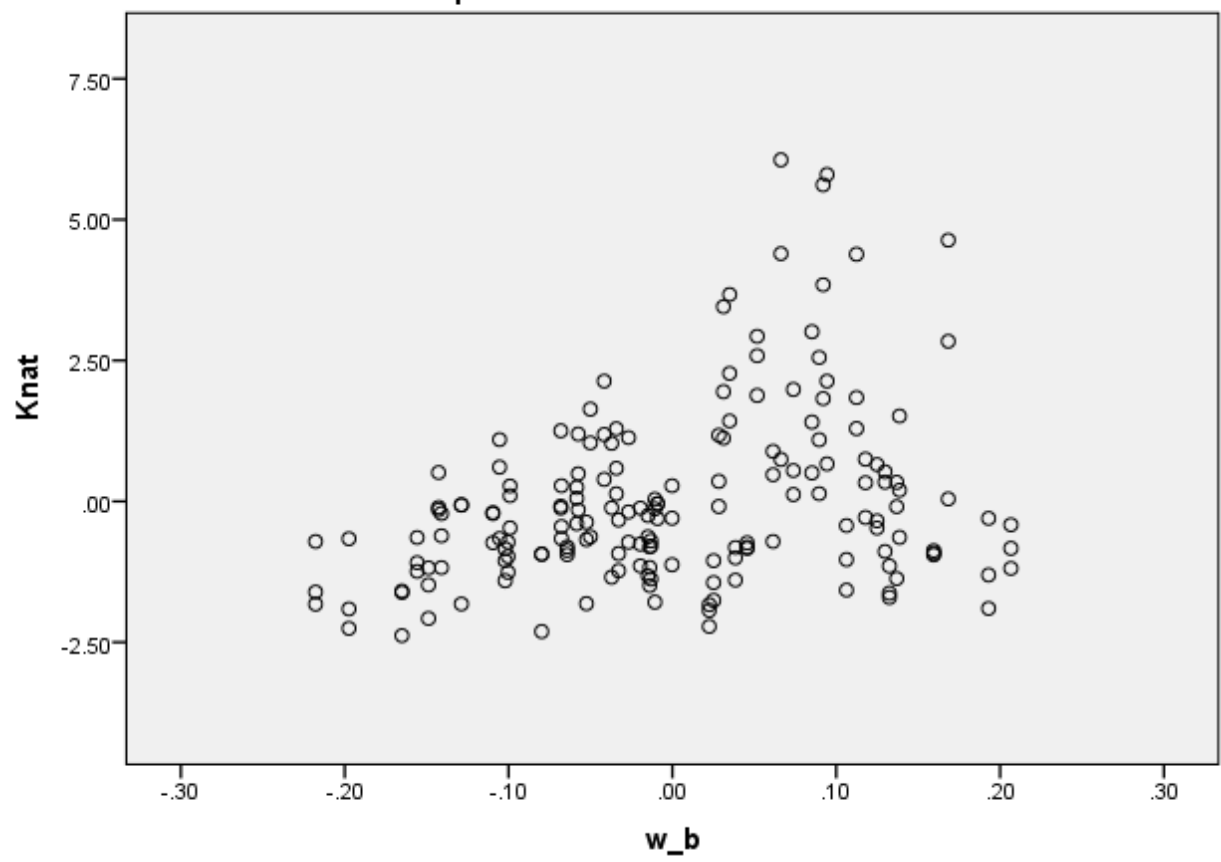


Scatterplot

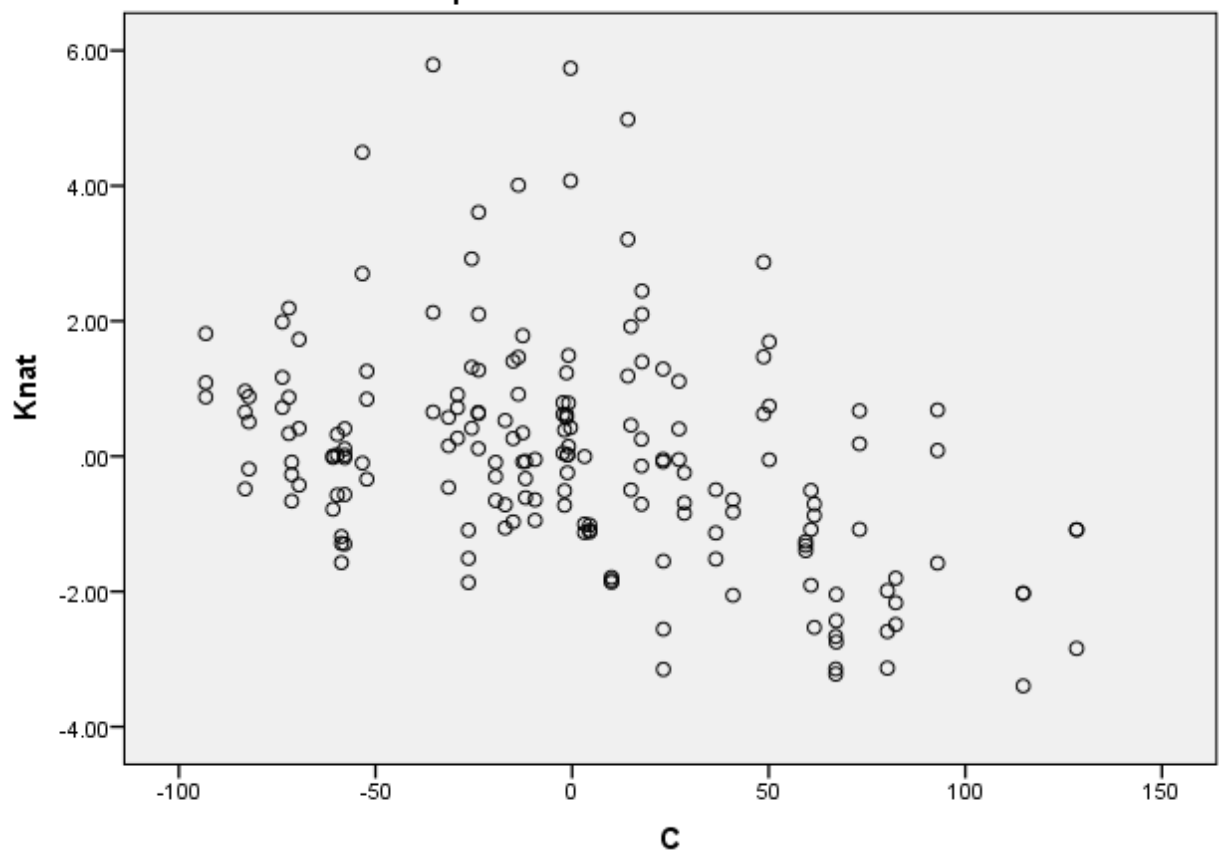
Dependent Variable: Knot



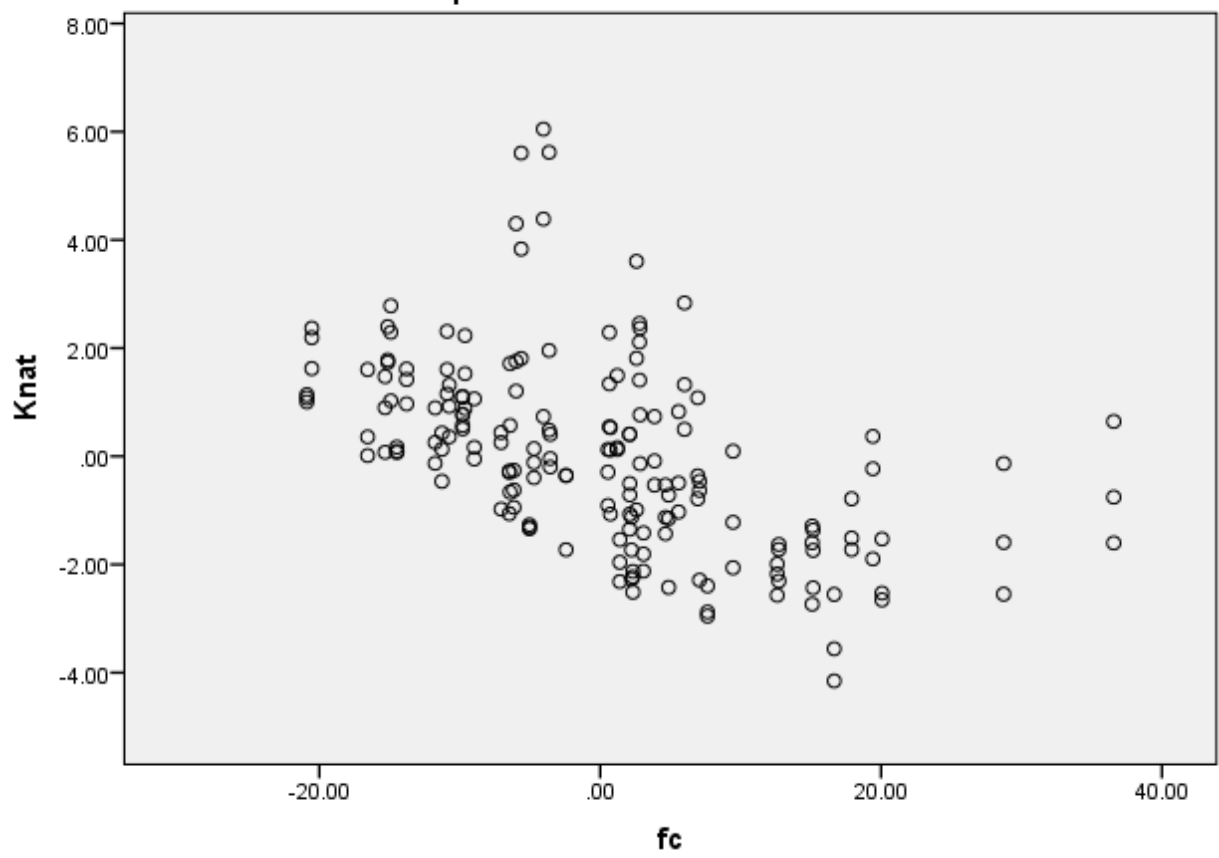
Partial Regression Plot
Dependent Variable: Knat



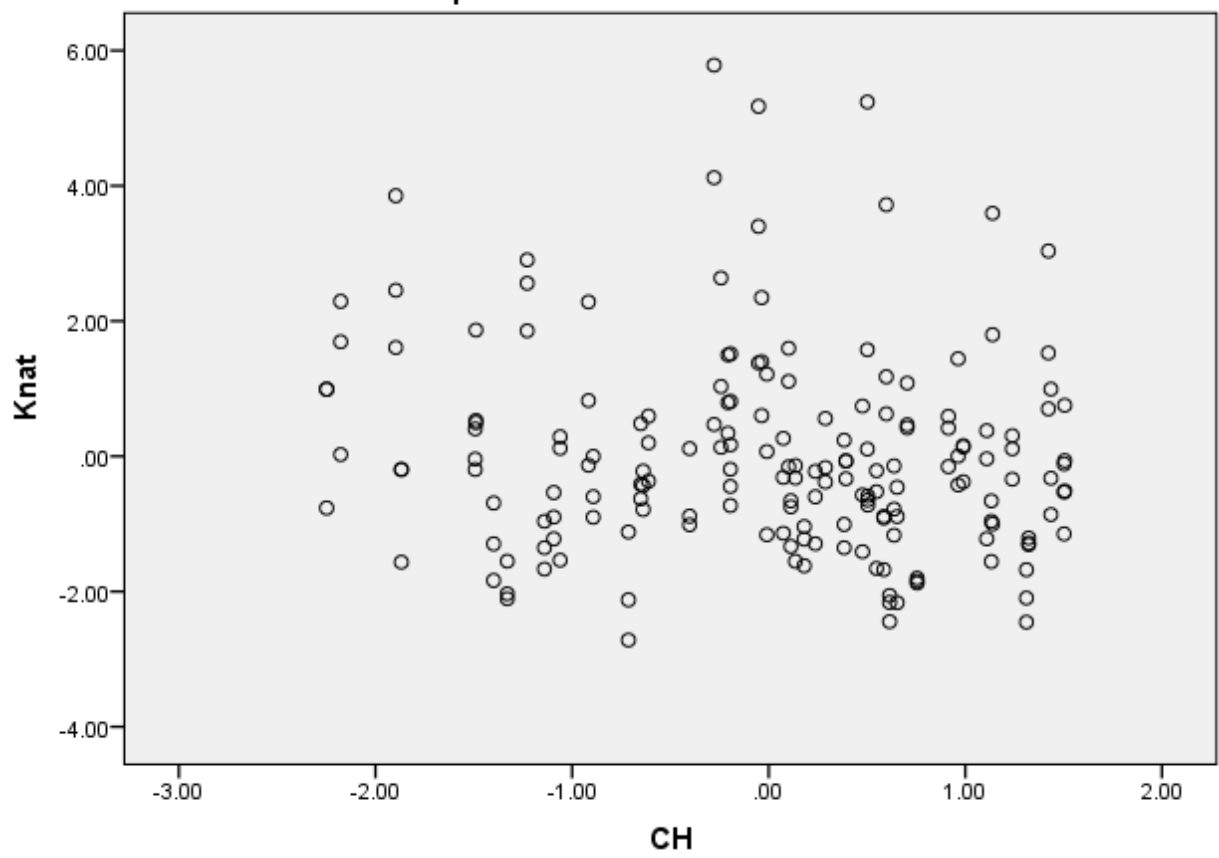
Partial Regression Plot
Dependent Variable: Knat



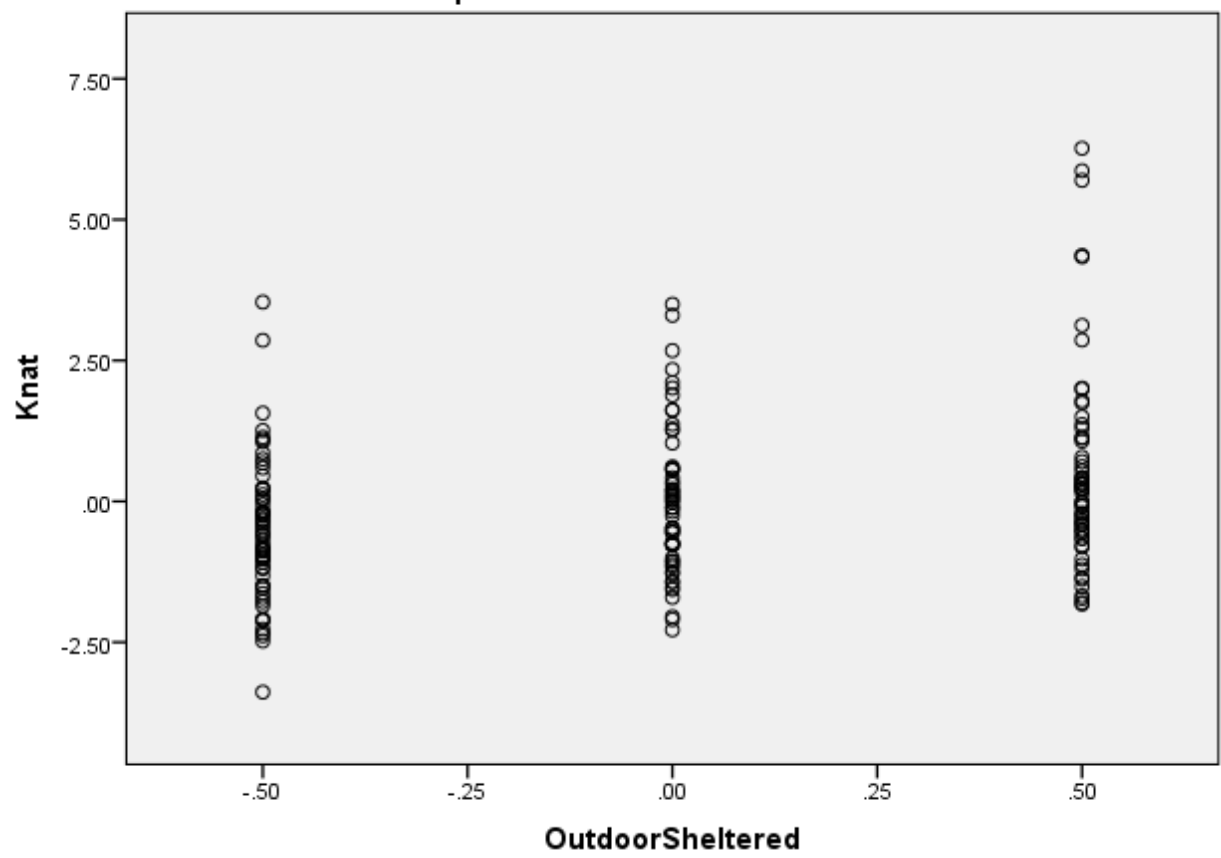
Partial Regression Plot
Dependent Variable: Knat

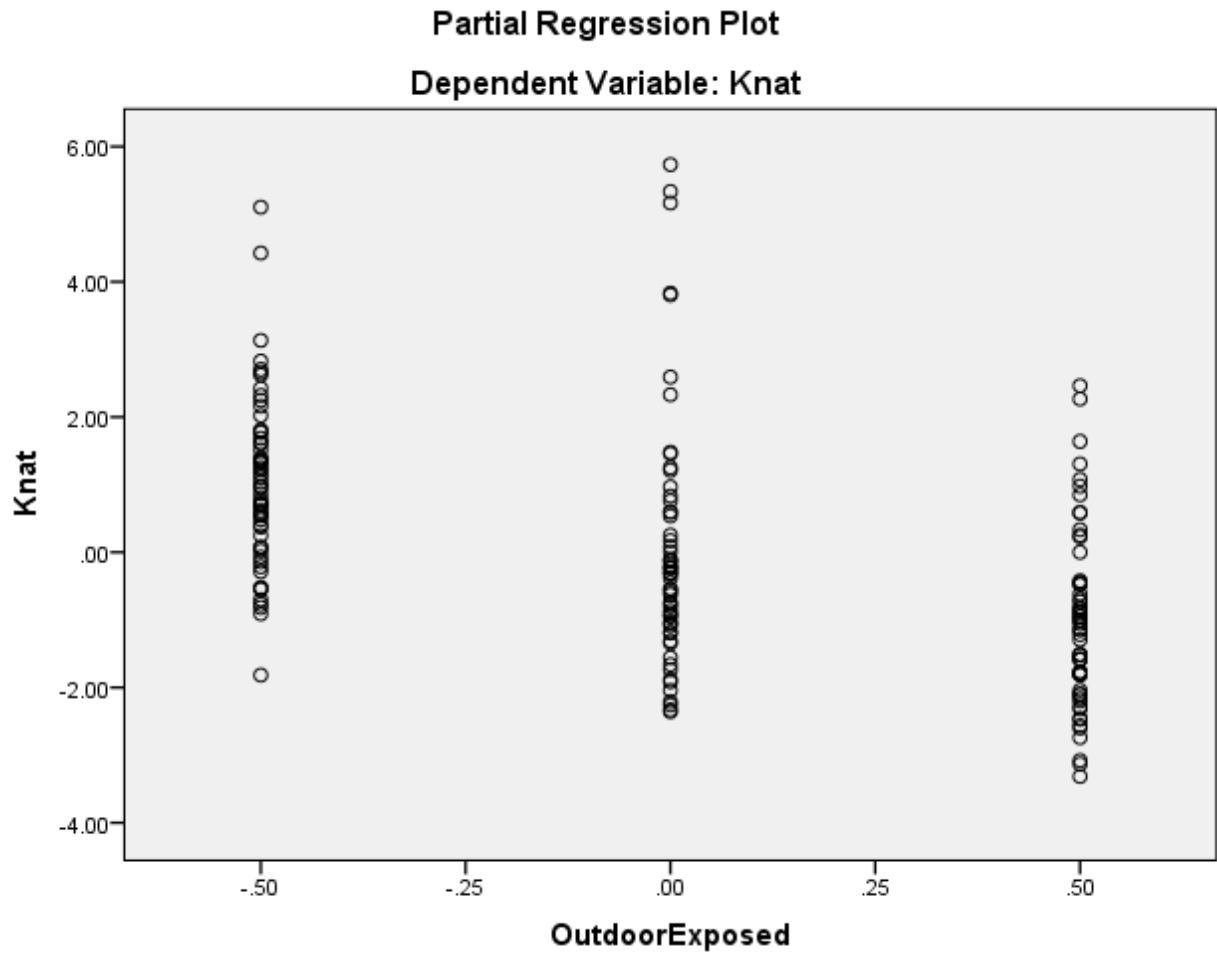


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C OPI CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
OPI	9.633	.4043	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w b	C	OPI	CH
Pearson Correlation	Knat	1.000	.591	-.735	-.738	-.744
	w_b	.591	1.000	-.410	-.823	-.511
	C	-.735	-.410	1.000	.585	.834
	OPI	-.738	-.823	.585	1.000	.660
	CH	-.744	-.511	.834	.660	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	w_b	.000	.	.000	.000	.000
	C	.000	.000	.	.000	.000
	OPI	.000	.000	.000	.	.000
	CH	.000	.000	.000	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	w_b	180	180	180	180	180
	C	180	180	180	180	180
	OPI	180	180	180	180	180
	CH	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	w_b	.000	.000
	C	.000	.000
	OPI	.000	.000
	CH	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	w_b	.500	.500
	C	.500	.500
	OPI	.500	.500
	CH	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	w_b	180	180
	C	180	180
	OPI	180	180
	CH	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, w_b, C, OPI ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.904 ^a	.817	.811	1.62526	1.299

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, C, OPI

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2038.338	6	339.723	128.611	.000 ^b
	Residual	456.974	173	2.641		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, C, OPI

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	48.123	6.402		7.517	.000
	w_b	1.190	1.673	.041	.711	.478
	C	-.013	.002	-.335	-5.607	.000
	OPI	-3.522	.616	-.381	-5.715	.000
	CH	-.354	.118	-.191	-2.995	.003
	OutdoorSheltered	1.066	.297	.135	3.593	.000
	OutdoorExposed	-2.069	.297	-.262	-6.972	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	35.486	60.759			

w_b	-2.113	4.493	.591	.054	.023
C	-.018	-.009	-.735	-.392	-.182
OPI	-4.739	-2.306	-.738	-.399	-.186
CH	-.587	-.121	-.744	-.222	-.097
OutdoorSheltered	.480	1.652	.266	.264	.117
OutdoorExposed	-2.655	-1.483	-.329	-.468	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.313	3.191
	C	.296	3.375
	OPI	.238	4.207
	CH	.259	3.861
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	C	OPI
1	1	5.551	1.000	.00	.00	.00	.00
	2	1.000	2.356	.00	.00	.00	.00
	3	.297	4.322	.00	.00	.01	.00
	4	.122	6.741	.00	.05	.14	.00
	5	.025	14.781	.00	.23	.30	.00
	6	.004	37.157	.01	.05	.50	.01
	7	.000	169.416	.99	.67	.05	.98

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		CH	OutdoorSheltered	OutdoorExposed
1	1	.00	.01	.01
	2	.00	.25	.25

3	.00	.72	.72
4	.00	.02	.02
5	.02	.01	.01
6	.97	.00	.00
7	.01	.00	.00

a. Dependent Variable: Knat

Residuals Statistics^a

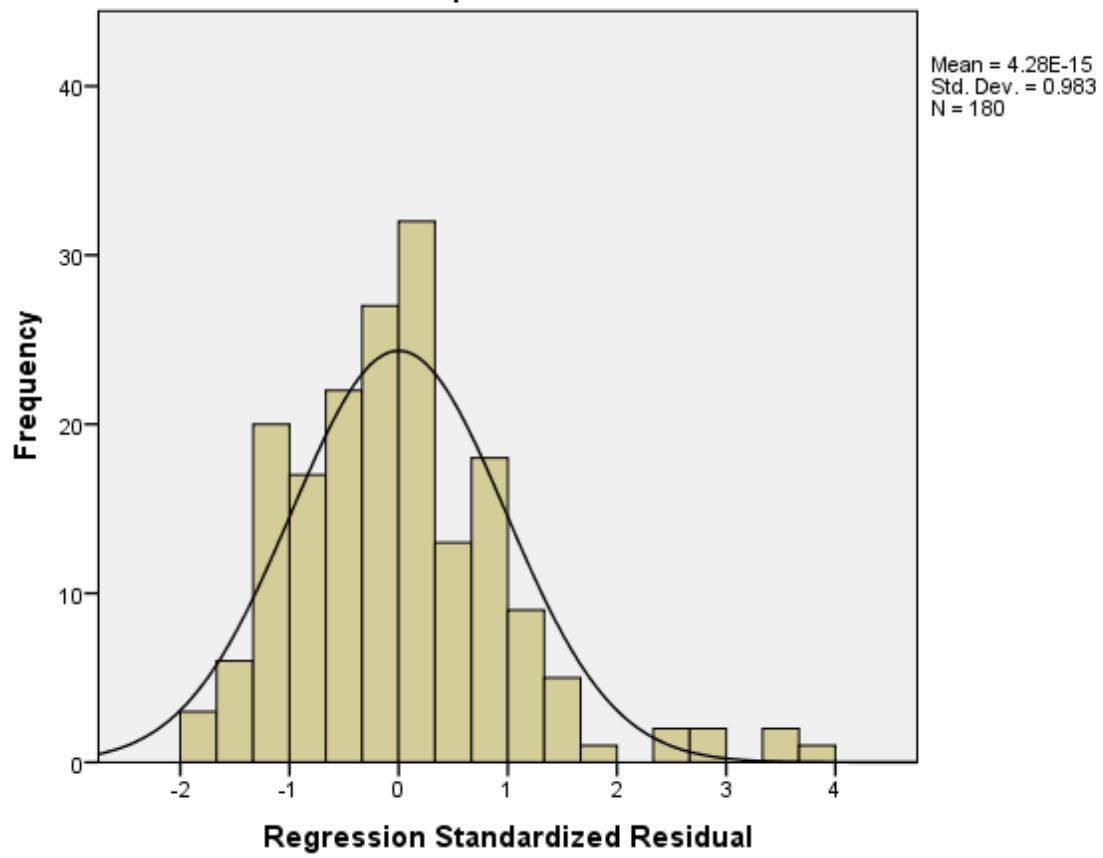
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.2362	16.3375	6.3209	3.37452	180
Residual	-3.03342	5.97467	.00000	1.59779	180
Std. Predicted Value	-2.239	2.968	.000	1.000	180
Std. Residual	-1.866	3.676	.000	.983	180

a. Dependent Variable: Knat

Charts

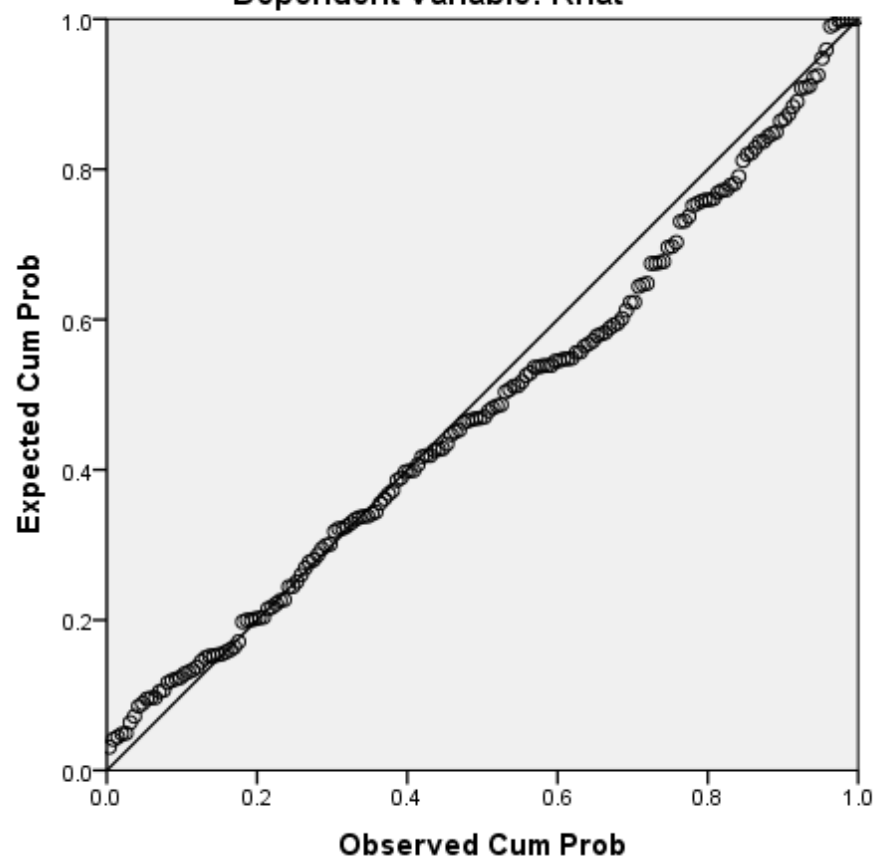
Histogram

Dependent Variable: Knot



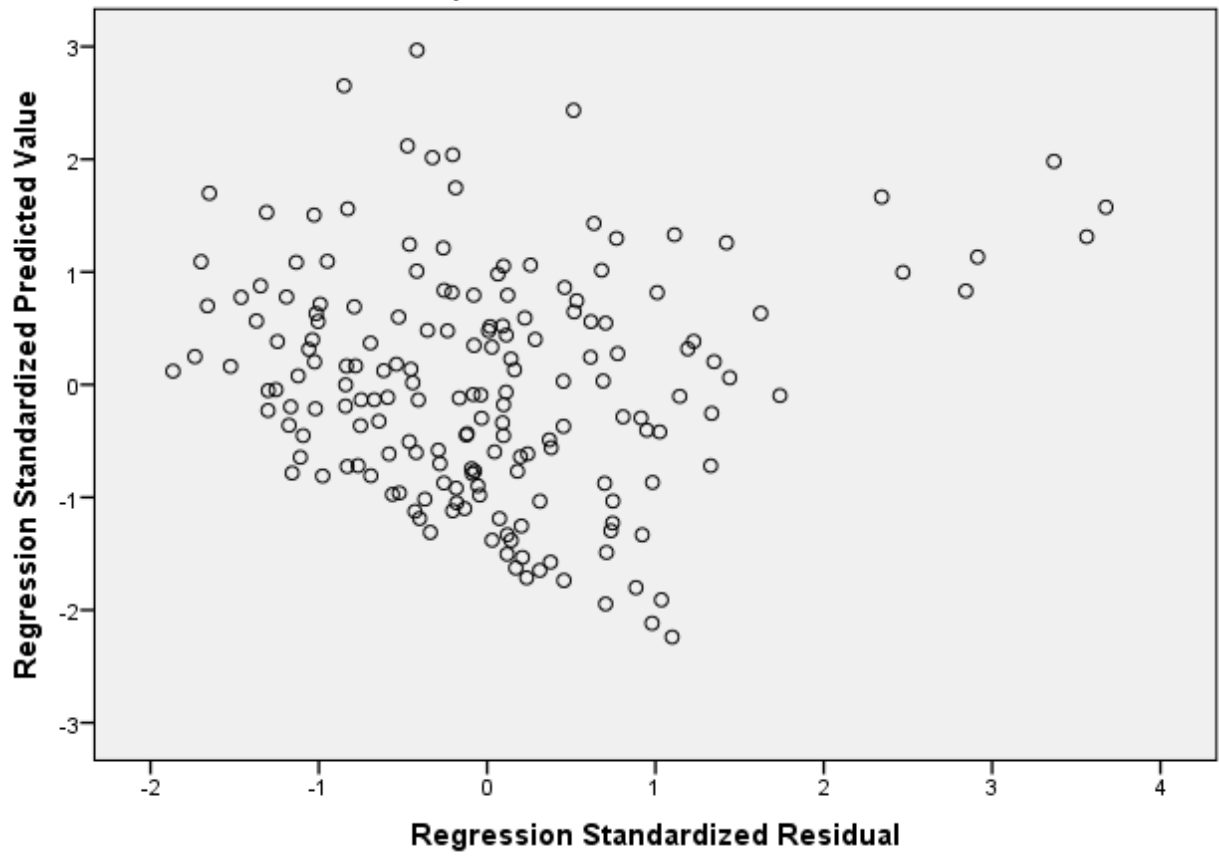
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

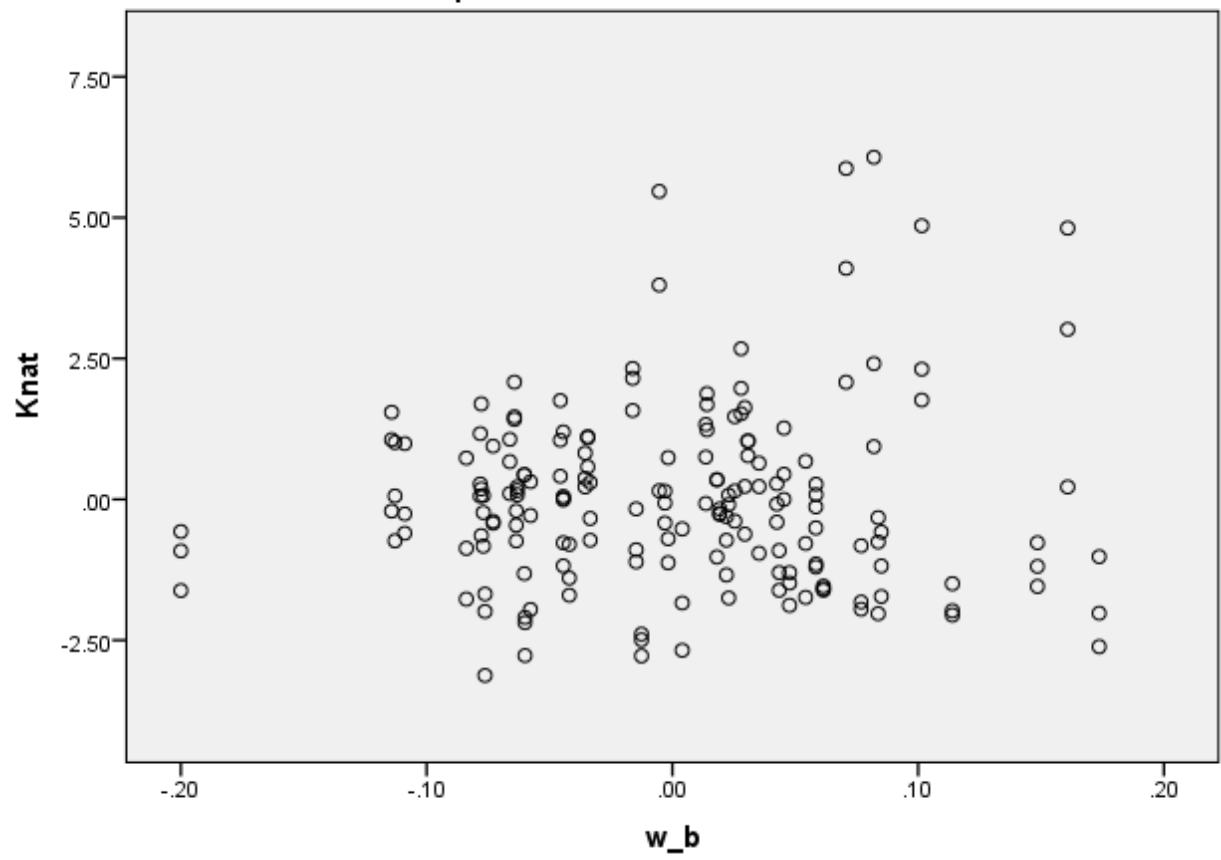


Scatterplot

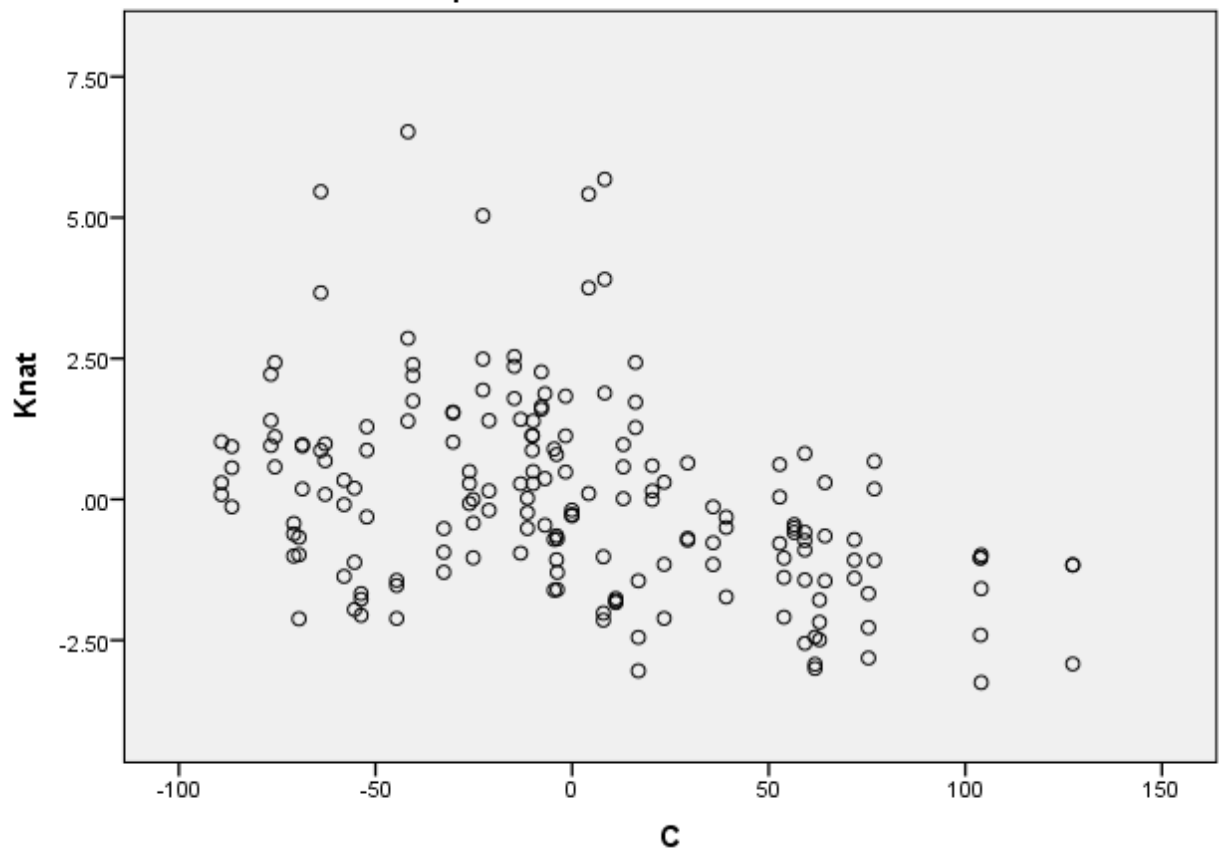
Dependent Variable: Knat



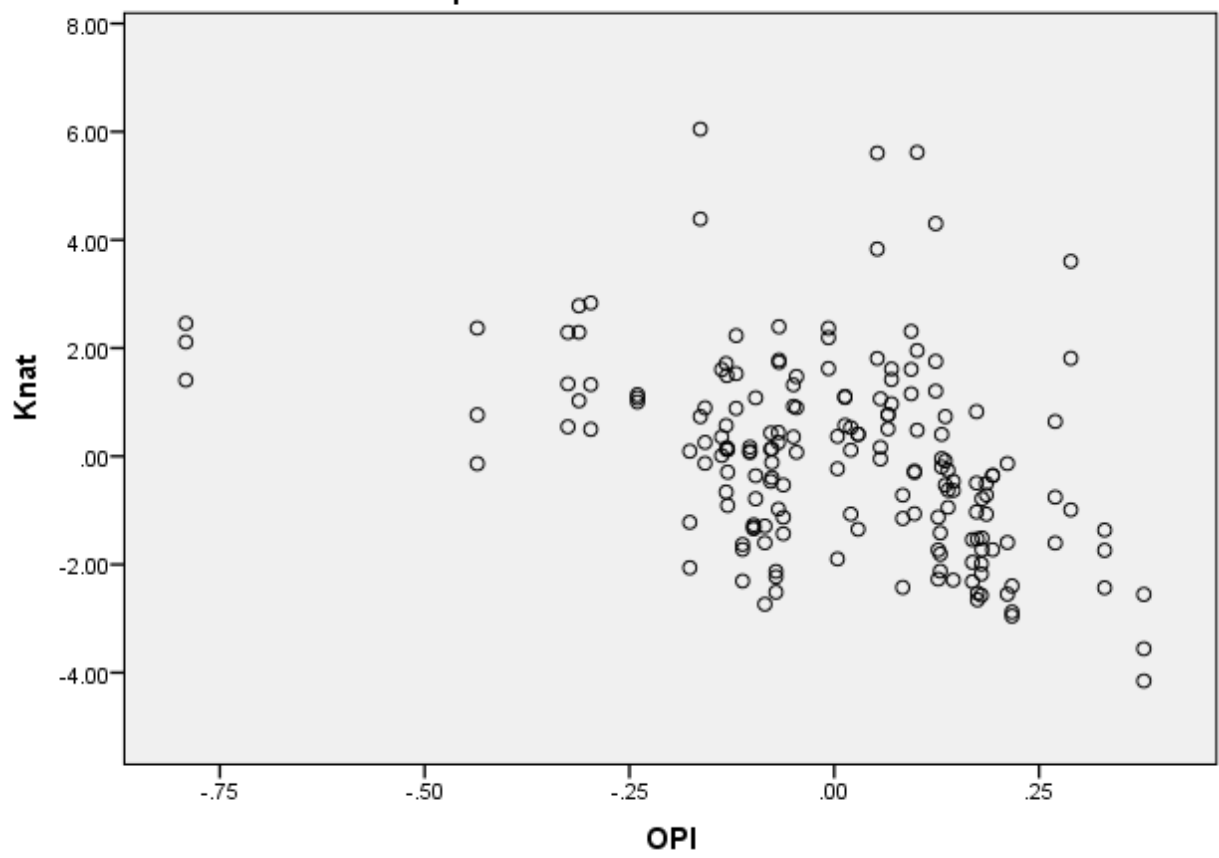
Partial Regression Plot
Dependent Variable: Knat



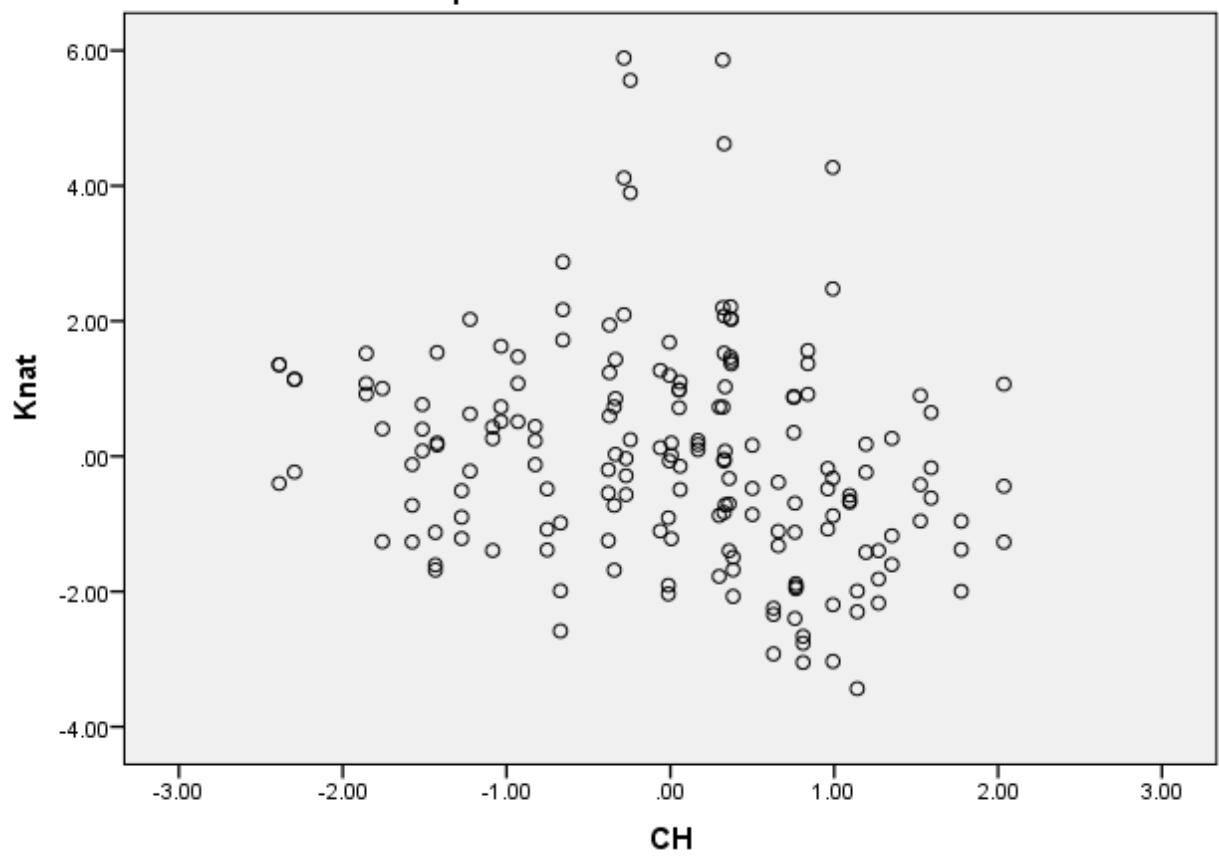
Partial Regression Plot
Dependent Variable: Knat



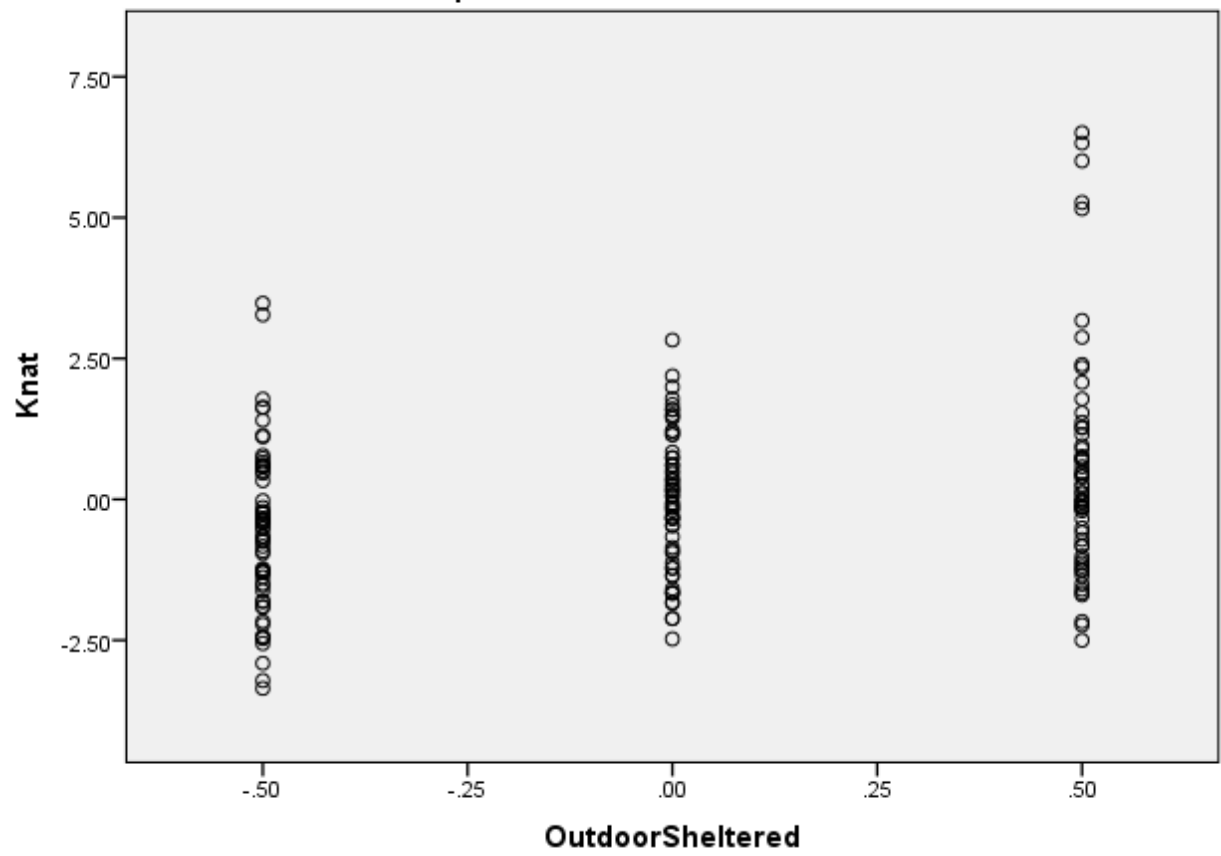
Partial Regression Plot
Dependent Variable: Knat

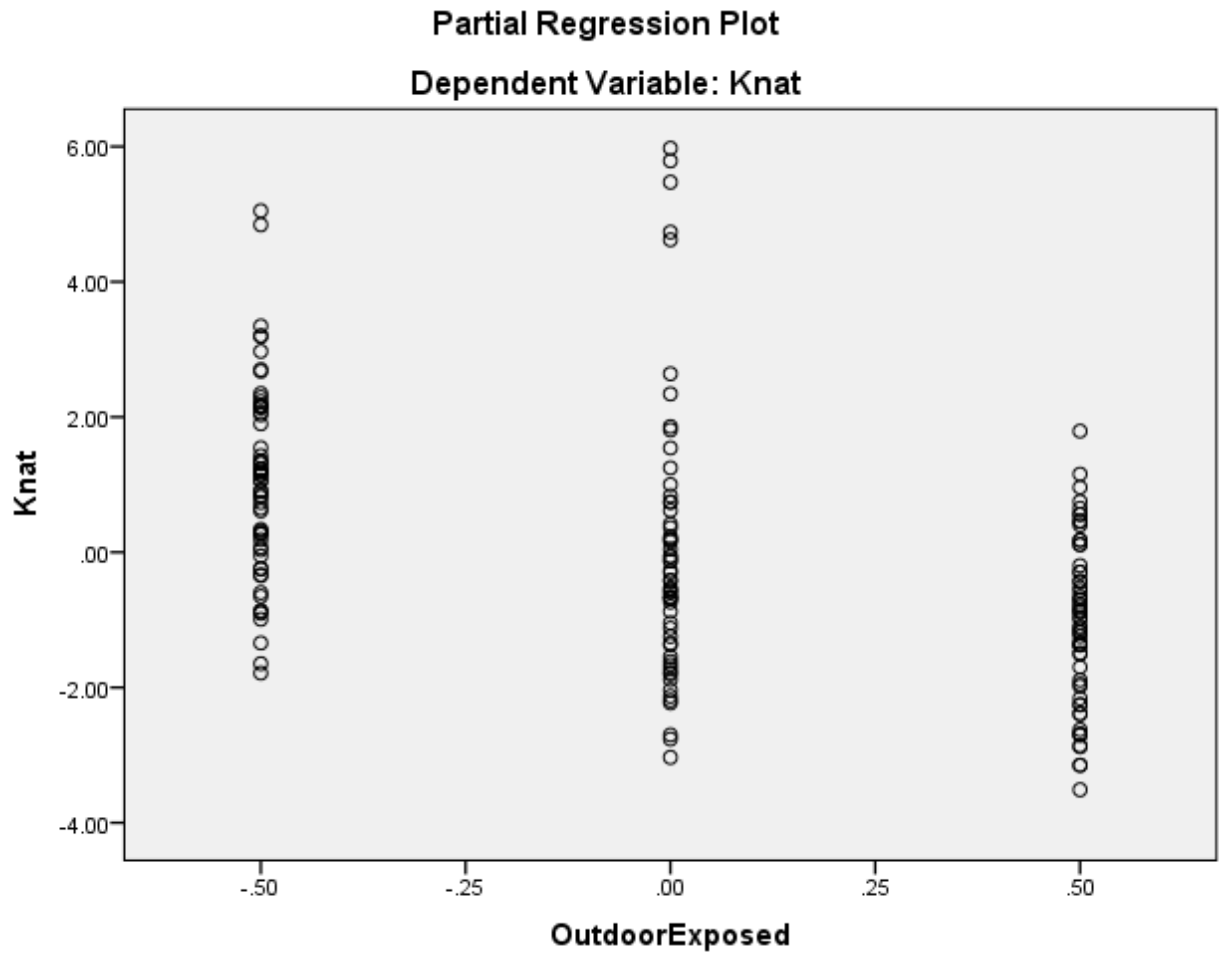


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knot





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C WS CH OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
WS	10.028	3.8857	180
CH	13.4373	2.02095	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w b	C	WS	CH
Pearson Correlation	Knat	1.000	.591	-.735	.747	-.744
	w_b	.591	1.000	-.410	.759	-.511
	C	-.735	-.410	1.000	-.517	.834
	WS	.747	.759	-.517	1.000	-.572
	CH	-.744	-.511	.834	-.572	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	w_b	.000	.	.000	.000	.000
	C	.000	.000	.	.000	.000
	WS	.000	.000	.000	.	.000
	CH	.000	.000	.000	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	w_b	180	180	180	180	180
	C	180	180	180	180	180
	WS	180	180	180	180	180
	CH	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	w_b	.000	.000
	C	.000	.000
	WS	.000	.000
	CH	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	w_b	.500	.500
	C	.500	.500
	WS	.500	.500
	CH	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	w_b	180	180
	C	180	180
	WS	180	180
	CH	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, CH, OutdoorSheltered, w_b, WS, C ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.927 ^a	.859	.854	1.42435	1.368

a. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, WS, C

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2144.335	6	357.389	176.161	.000 ^b
	Residual	350.977	173	2.029		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, CH, OutdoorSheltered, w_b, WS, C

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	10.857	1.344		8.076	.000
	w_b	.084	1.285	.003	.065	.948
	C	-.012	.002	-.317	-6.070	.000
	WS	.439	.045	.457	9.735	.000
	CH	-.401	.102	-.217	-3.941	.000
	OutdoorSheltered	1.066	.260	.135	4.100	.000
	OutdoorExposed	-2.069	.260	-.262	-7.956	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	8.203	13.510			

w_b	-2.452	2.620	.591	.005	.002
C	-.016	-.008	-.735	-.419	-.173
WS	.350	.528	.747	.595	.278
CH	-.602	-.200	-.744	-.287	-.112
OutdoorSheltered	.553	1.579	.266	.298	.117
OutdoorExposed	-2.582	-1.556	-.329	-.518	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.408	2.449
	C	.298	3.355
	WS	.369	2.707
	CH	.268	3.727
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	C	WS
1	1	5.433	1.000	.00	.00	.00	.00
	2	1.000	2.331	.00	.00	.00	.00
	3	.297	4.278	.00	.00	.00	.01
	4	.226	4.908	.00	.01	.06	.08
	5	.026	14.494	.07	.04	.43	.47
	6	.016	18.608	.03	.81	.09	.43
	7	.003	41.762	.90	.14	.42	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		CH	OutdoorSheltered	OutdoorExposed
1	1	.00	.01	.01
	2	.00	.25	.25

3	.00	.72	.72
4	.00	.01	.01
5	.02	.01	.01
6	.05	.00	.00
7	.93	.00	.00

a. Dependent Variable: Knat

Residuals Statistics^a

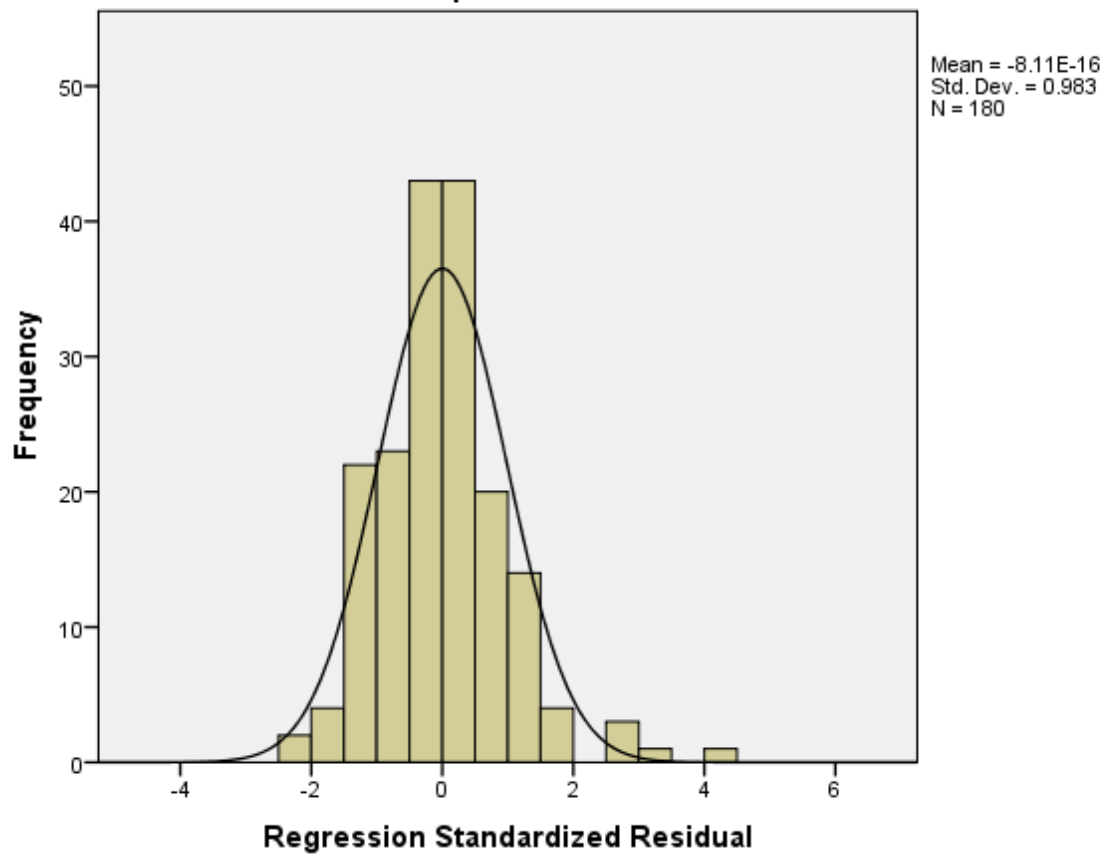
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.2972	15.5518	6.3209	3.46115	180
Residual	-3.19118	6.26153	.00000	1.40027	180
Std. Predicted Value	-2.201	2.667	.000	1.000	180
Std. Residual	-2.240	4.396	.000	.983	180

a. Dependent Variable: Knat

Charts

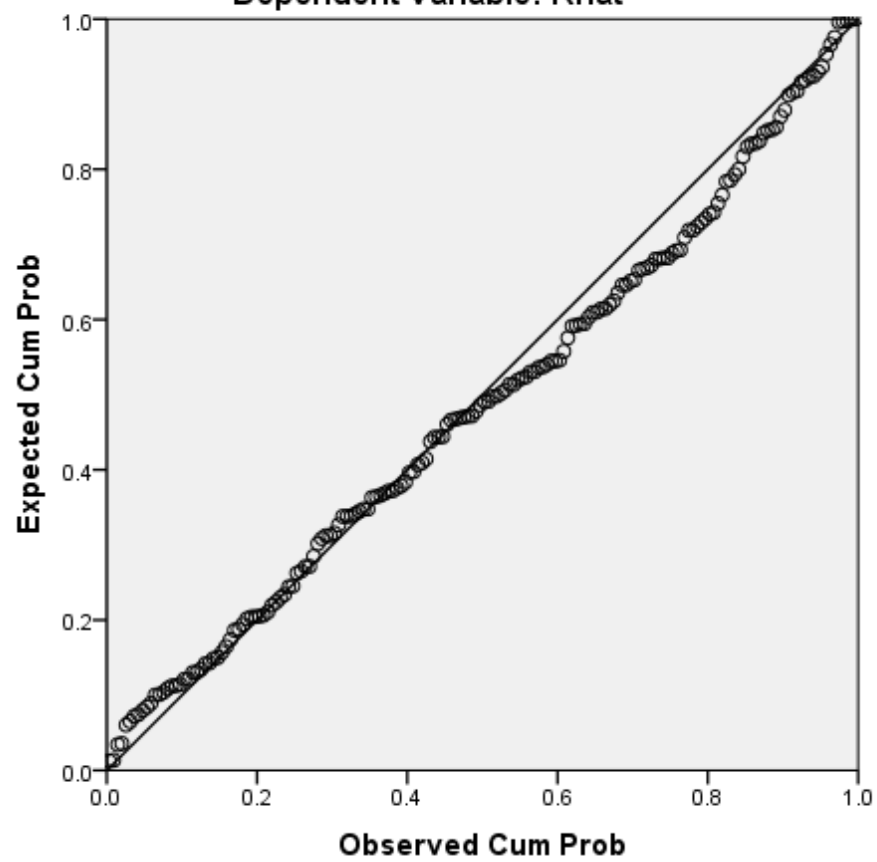
Histogram

Dependent Variable: Knat



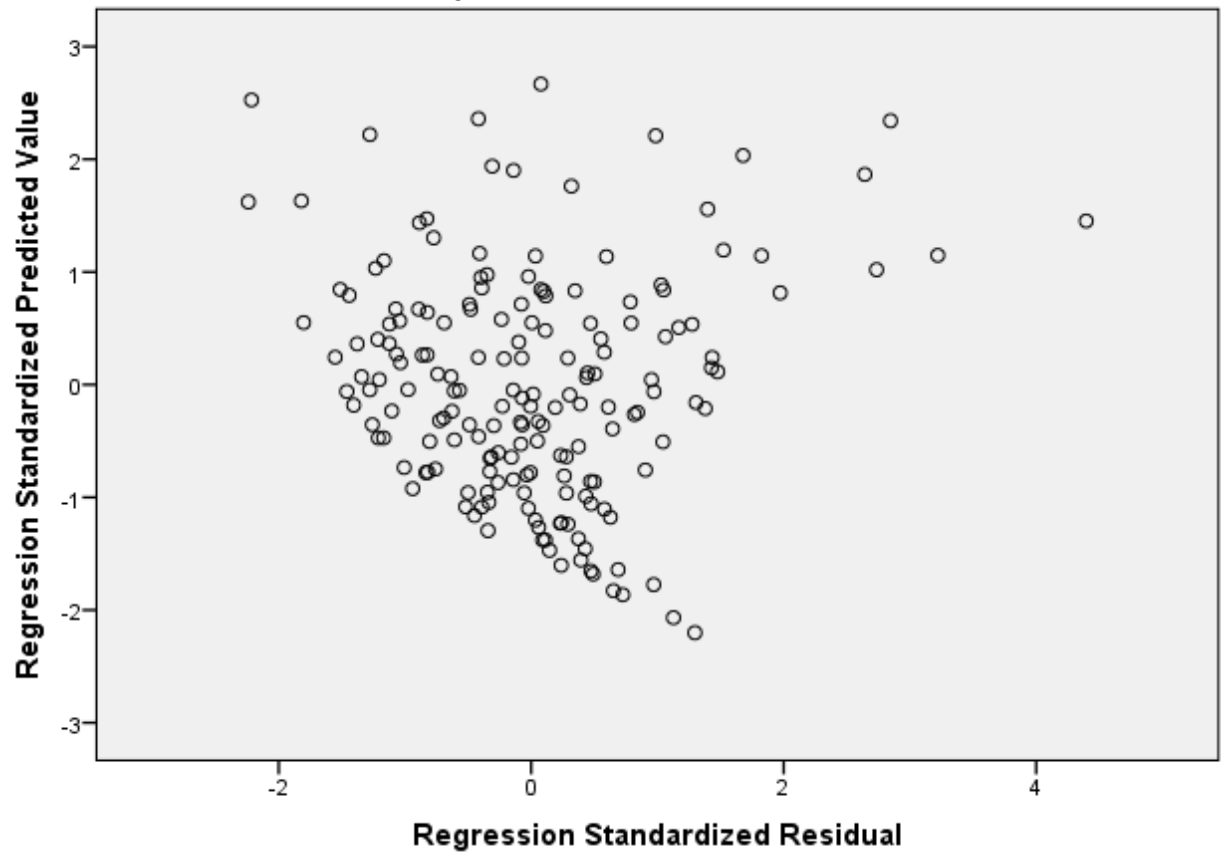
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

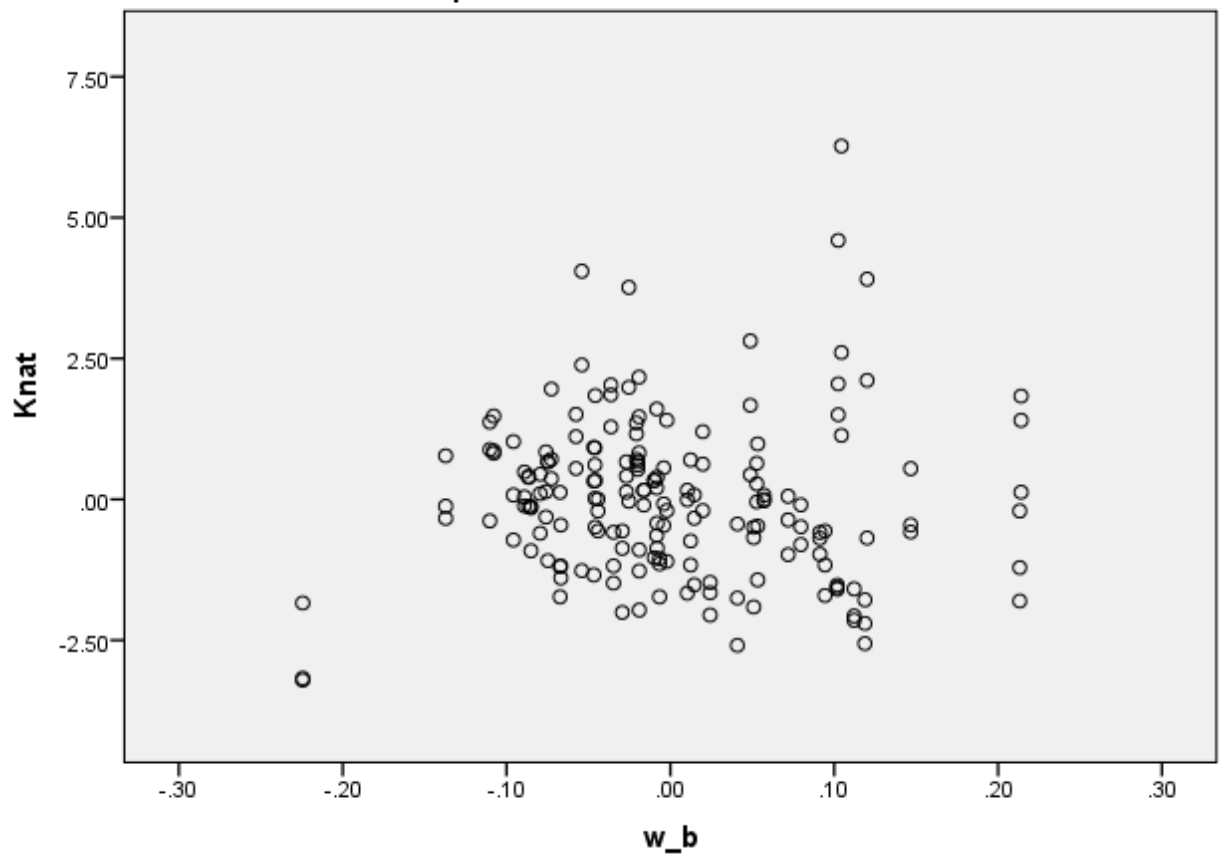


Scatterplot

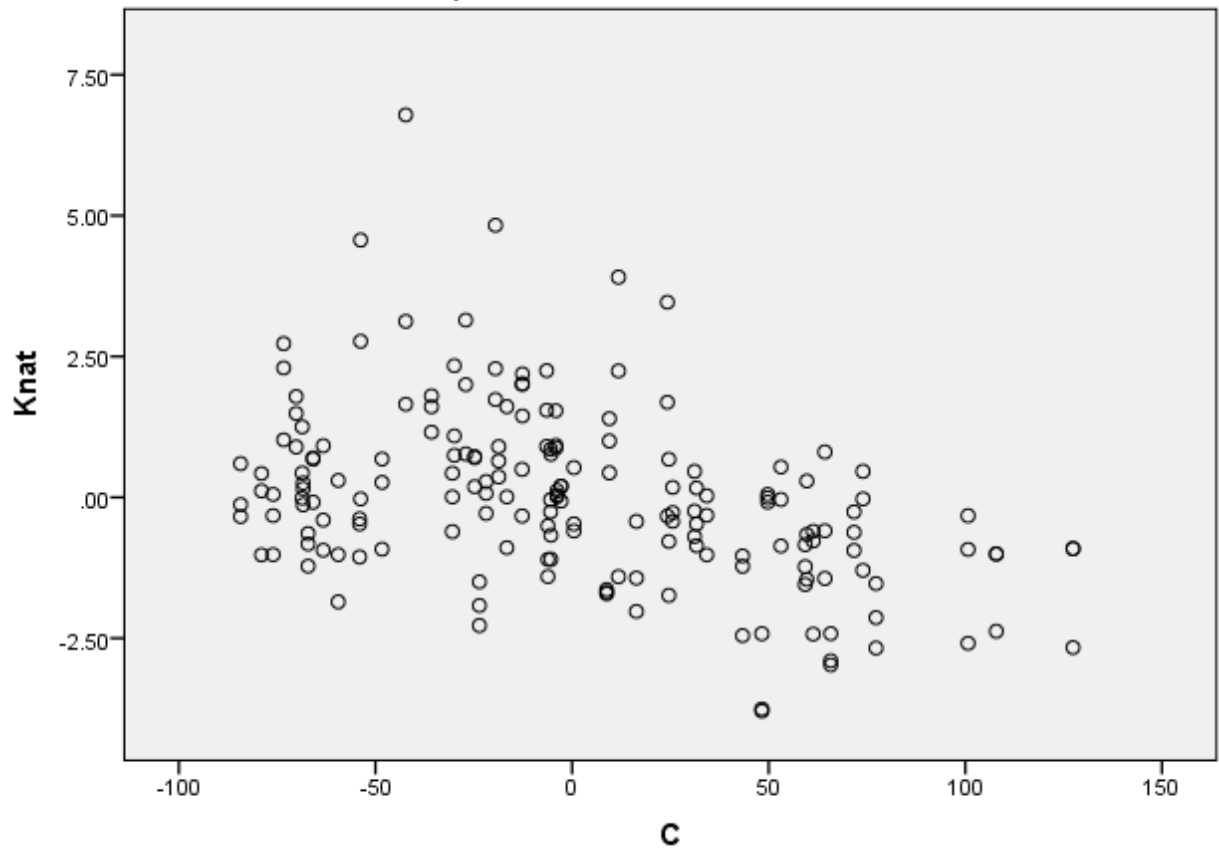
Dependent Variable: Knot



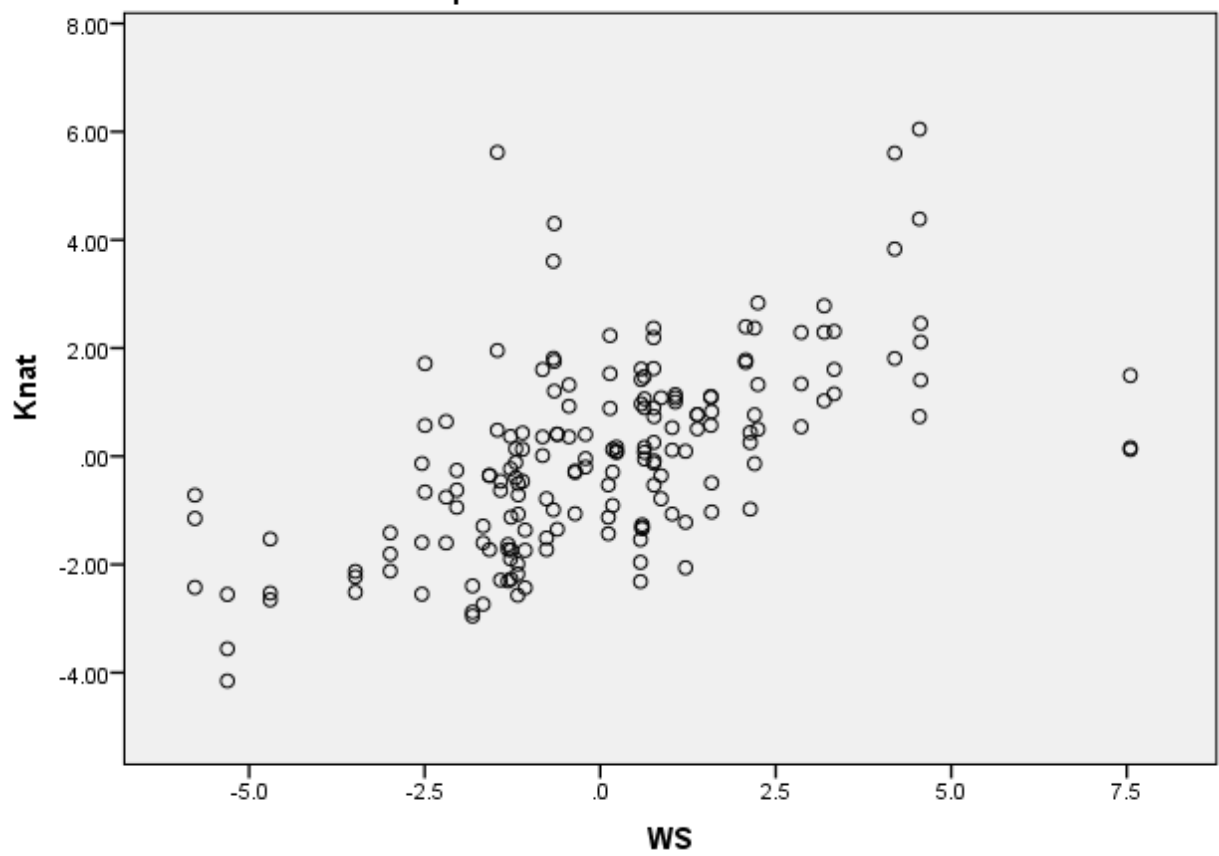
Partial Regression Plot
Dependent Variable: Knat



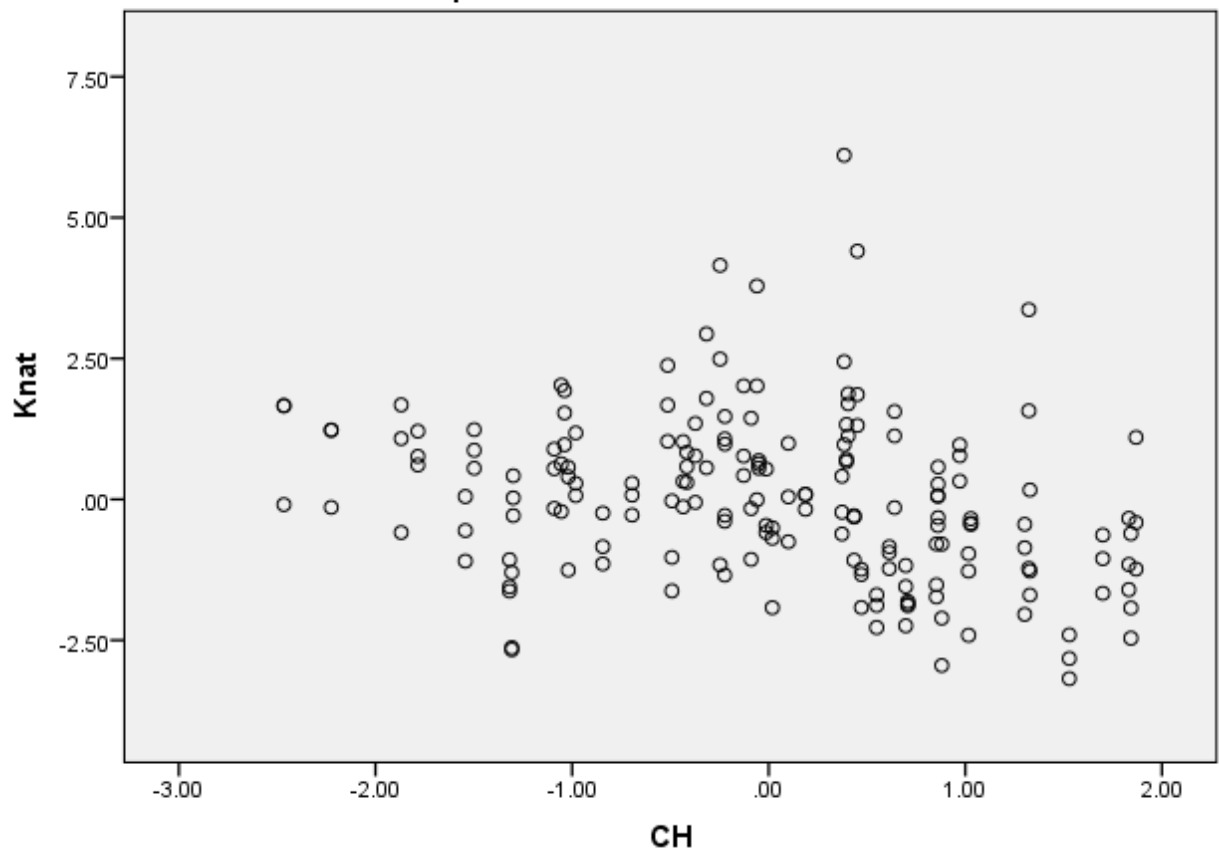
Partial Regression Plot
Dependent Variable: Knat



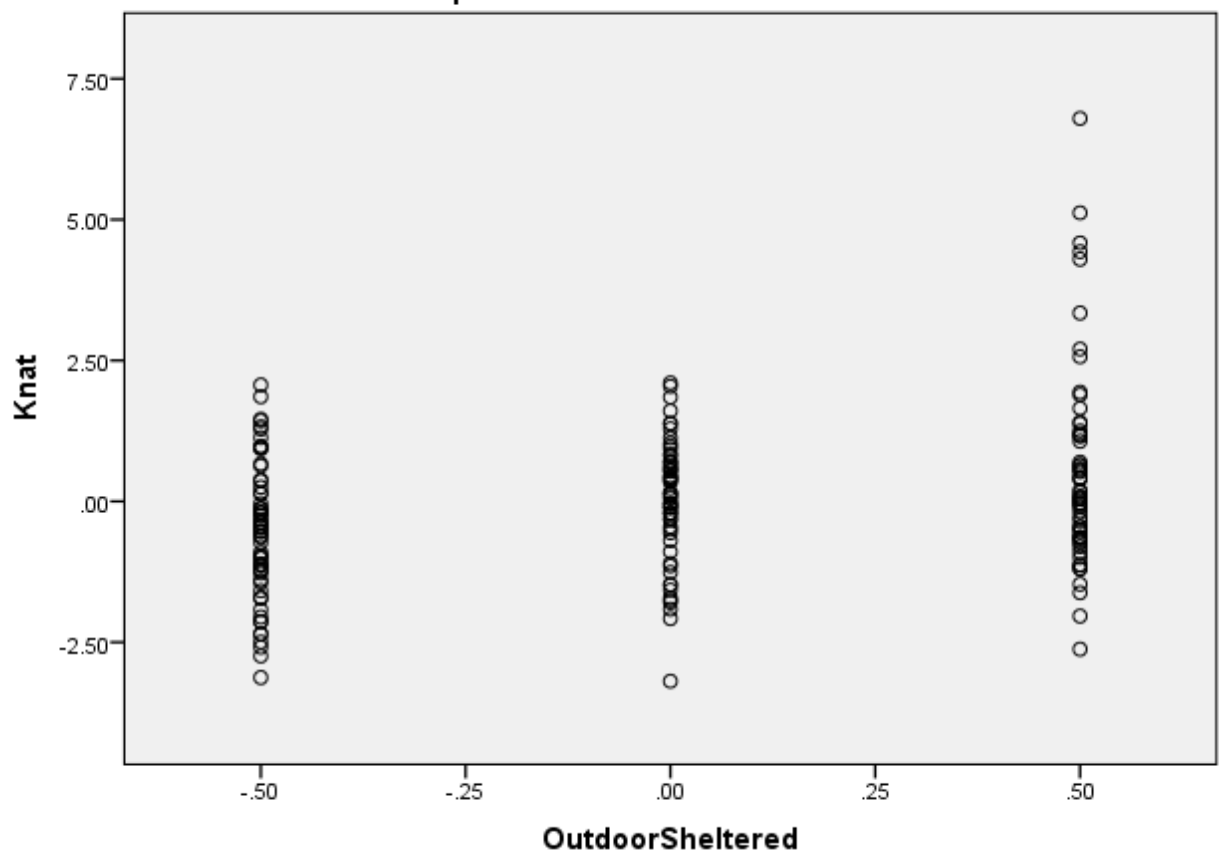
Partial Regression Plot
Dependent Variable: Knat

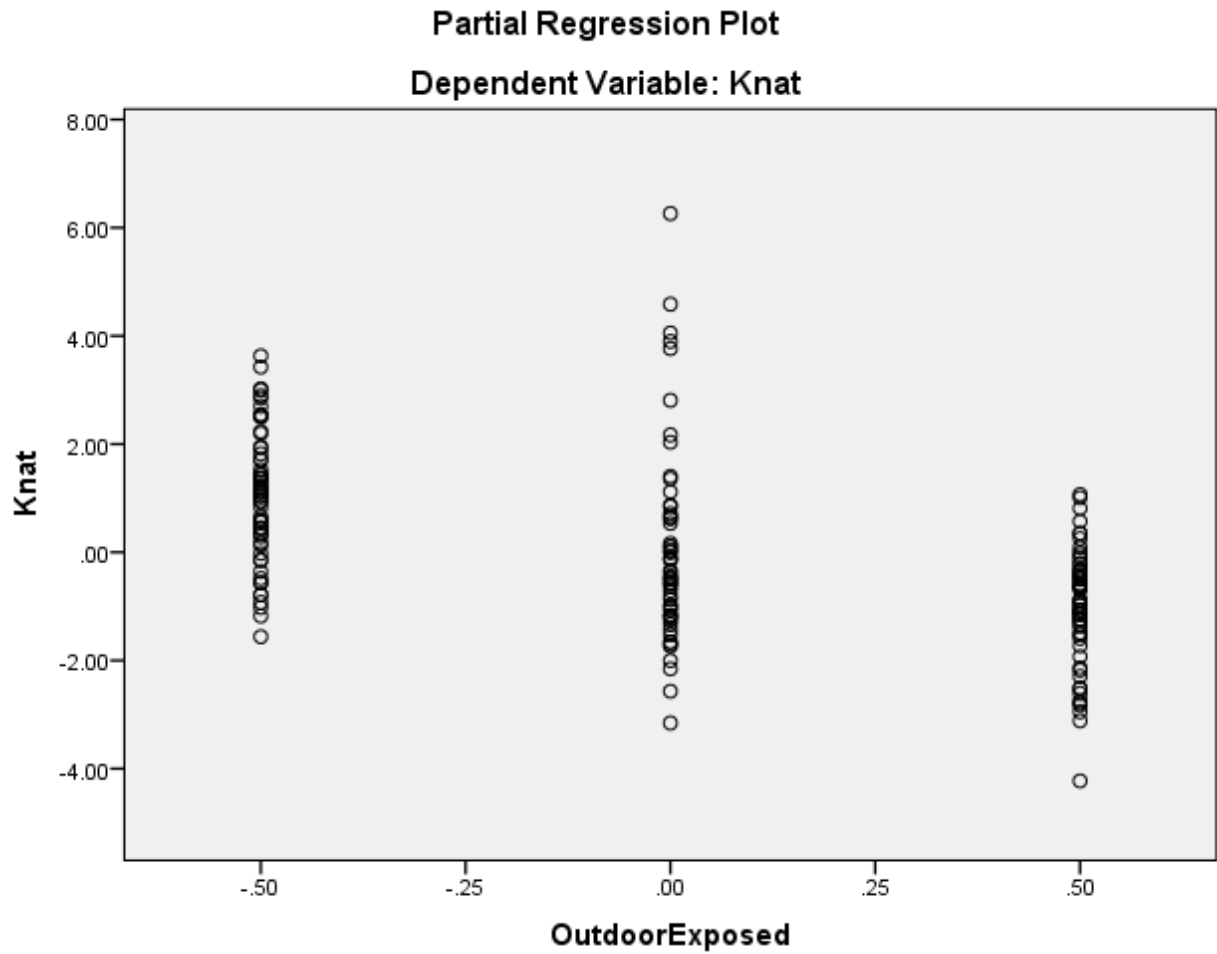


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b C Kacc OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
C	262.50	95.166	180
Kacc	3.9405	2.68582	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w_b	C	Kacc	OutdoorSheltered
Pearson Correlation	Knat	1.000	.591	-.735	.857	.266
	w_b	.591	1.000	-.410	.734	.000
	C	-.735	-.410	1.000	-.790	.000
	Kacc	.857	.734	-.790	1.000	.000
	OutdoorSheltered	.266	.000	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000	.000
	w_b	.000	.	.000	.000	.500
	C	.000	.000	.	.000	.500
	Kacc	.000	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.500	.
	OutdoorExposed	.000	.500	.500	.500	.000
N	Knat	180	180	180	180	180
	w_b	180	180	180	180	180
	C	180	180	180	180	180
	Kacc	180	180	180	180	180
	OutdoorSheltered	180	180	180	180	180
	OutdoorExposed	180	180	180	180	180

Correlations			
			OutdoorExposed
Pearson Correlation	Knat		-.329
	w_b		.000
	C		.000
	Kacc		.000
	OutdoorSheltered		-.500
	OutdoorExposed		1.000
Sig. (1-tailed)	Knat		.000
	w_b		.500
	C		.500
	Kacc		.500
	OutdoorSheltered		.000
	OutdoorExposed		.
N	Knat		180
	w_b		180
	C		180
	Kacc		180
	OutdoorSheltered		180
	OutdoorExposed		180

Variables Entered/Removed ^a			
Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, Kacc, OutdoorSheltered, w_b, C ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.931 ^a	.866	.862	1.38606	1.095

a. Predictors: (Constant), OutdoorExposed, Kacc, OutdoorSheltered, w_b, C

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2161.029	5	432.206	224.970	.000 ^b
	Residual	334.284	174	1.921		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, Kacc, OutdoorSheltered, w_b, C

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.403	.745		5.910	.000
	w_b	-.903	1.287	-.031	-.702	.484
	C	-.006	.002	-.141	-2.847	.005
	Kacc	1.069	.092	.769	11.572	.000
	OutdoorSheltered	1.066	.253	.135	4.213	.000
	OutdoorExposed	-2.069	.253	-.262	-8.175	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	2.933	5.873			
	w_b	-3.444	1.637	.591	-.053	-.019
	C	-.009	-.002	-.735	-.211	-.079
	Kacc	.886	1.251	.857	.659	.321
	OutdoorSheltered	.567	1.566	.266	.304	.117
	OutdoorExposed	-2.568	-1.569	-.329	-.527	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	.385	2.595
	C	.314	3.180
	Kacc	.174	5.732
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	C	Kacc
1	1	4.296	1.000	.00	.00	.00	.00
	2	1.000	2.073	.00	.00	.00	.00
	3	.405	3.256	.00	.00	.02	.08
	4	.271	3.980	.00	.00	.03	.00
	5	.014	17.502	.60	.73	.01	.11
	6	.013	17.910	.40	.26	.94	.81

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.01	.01
	2	.25	.25
	3	.07	.07
	4	.66	.66
	5	.01	.01
	6	.01	.01

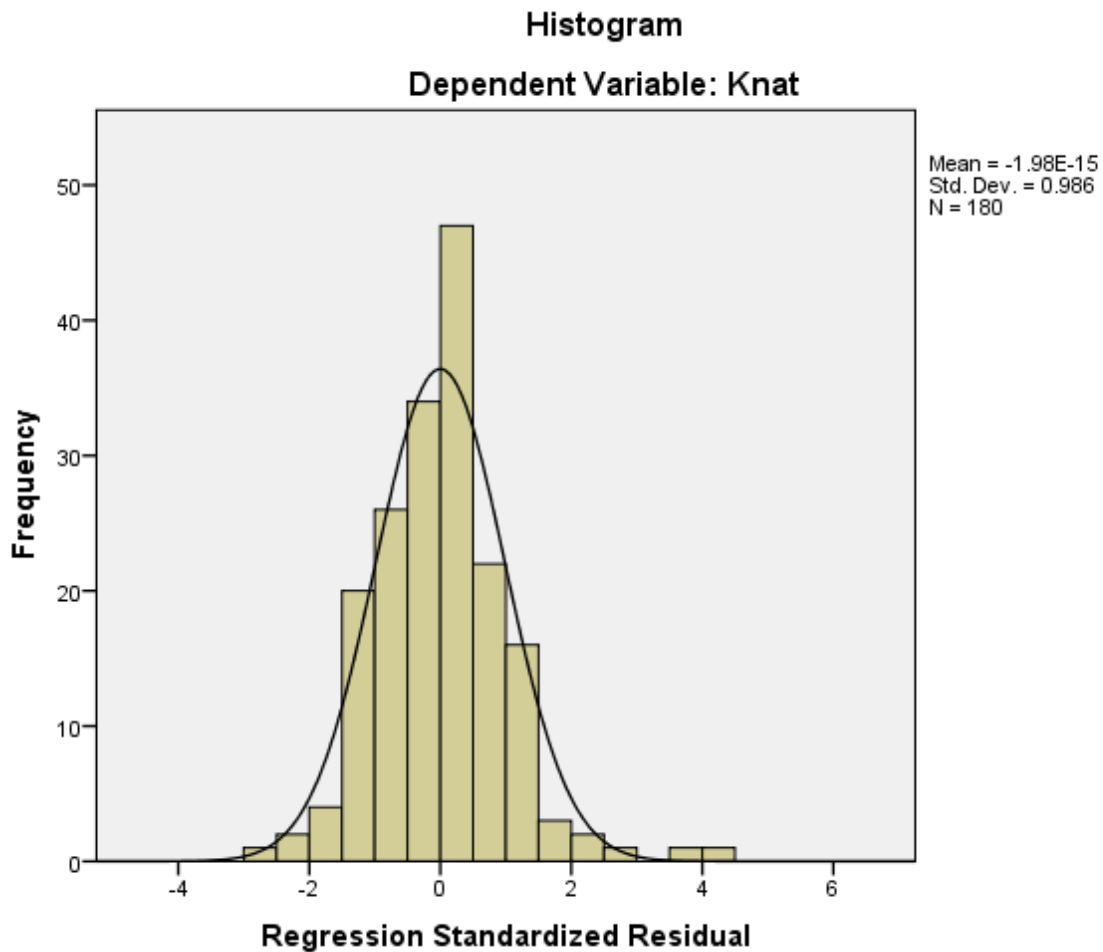
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.5145	16.5039	6.3209	3.47459	180
Residual	-3.50289	5.76477	.00000	1.36657	180
Std. Predicted Value	-1.967	2.931	.000	1.000	180
Std. Residual	-2.527	4.159	.000	.986	180

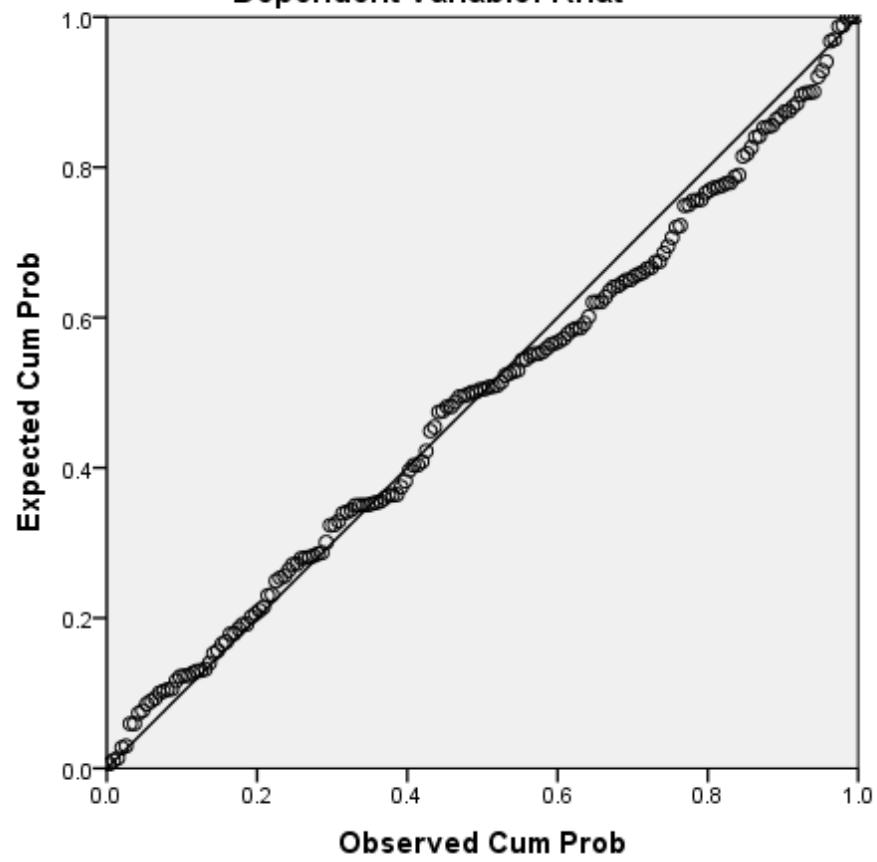
a. Dependent Variable: Knat

Charts



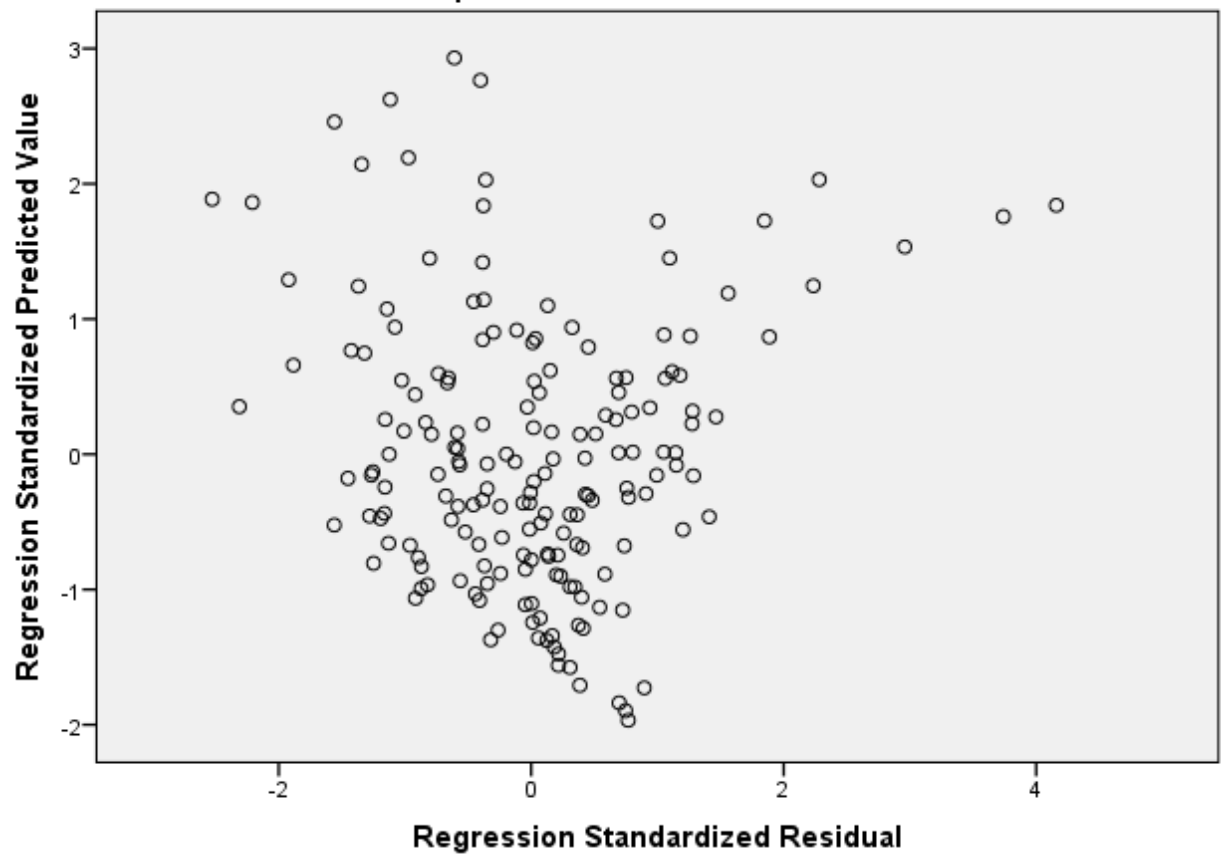
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

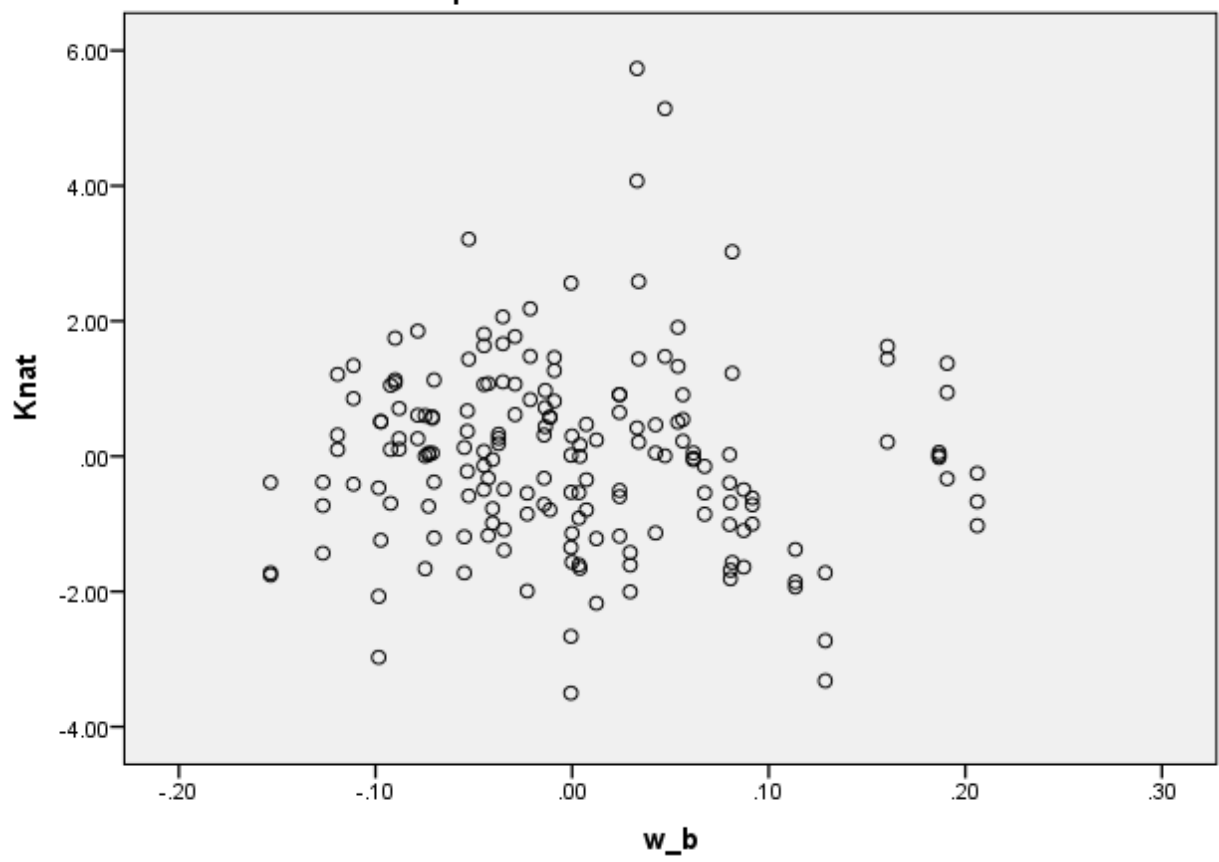


Scatterplot

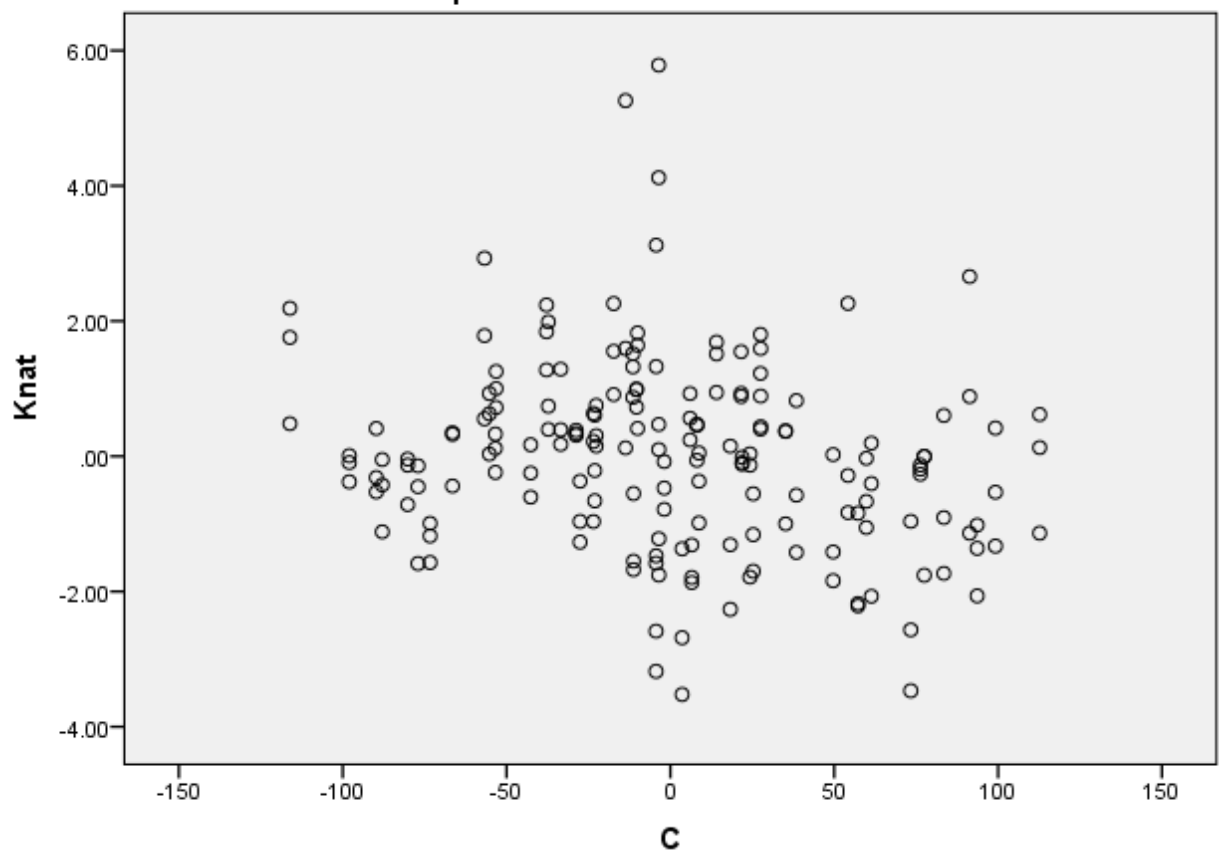
Dependent Variable: Knat



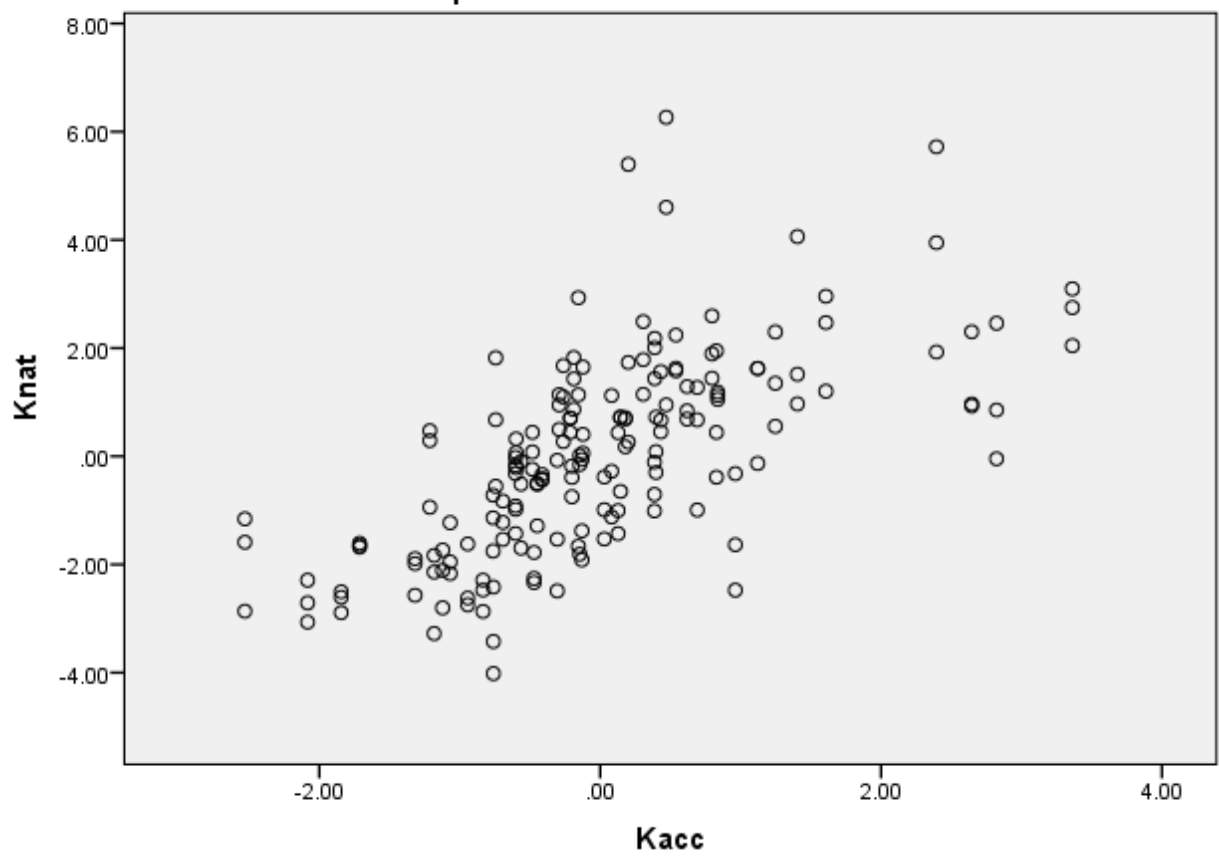
Partial Regression Plot
Dependent Variable: Knat



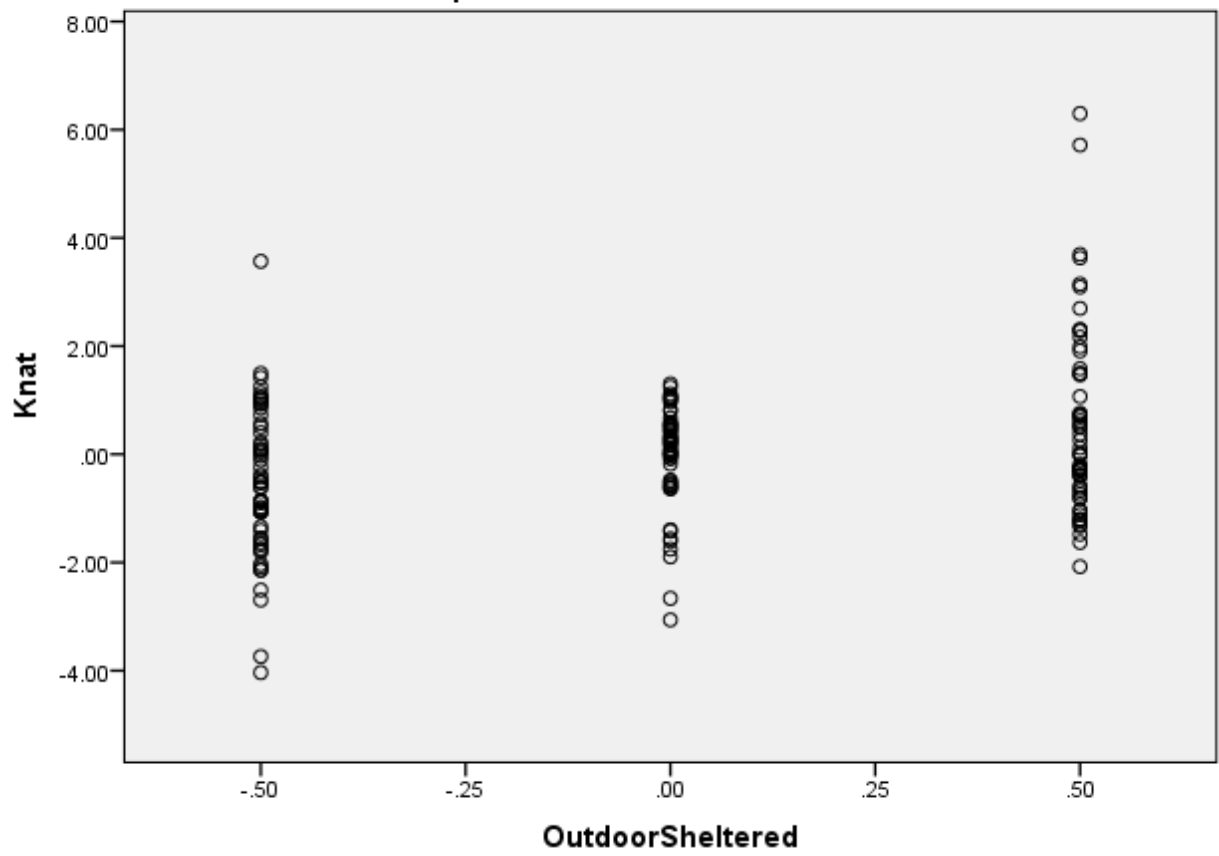
Partial Regression Plot
Dependent Variable: Knat

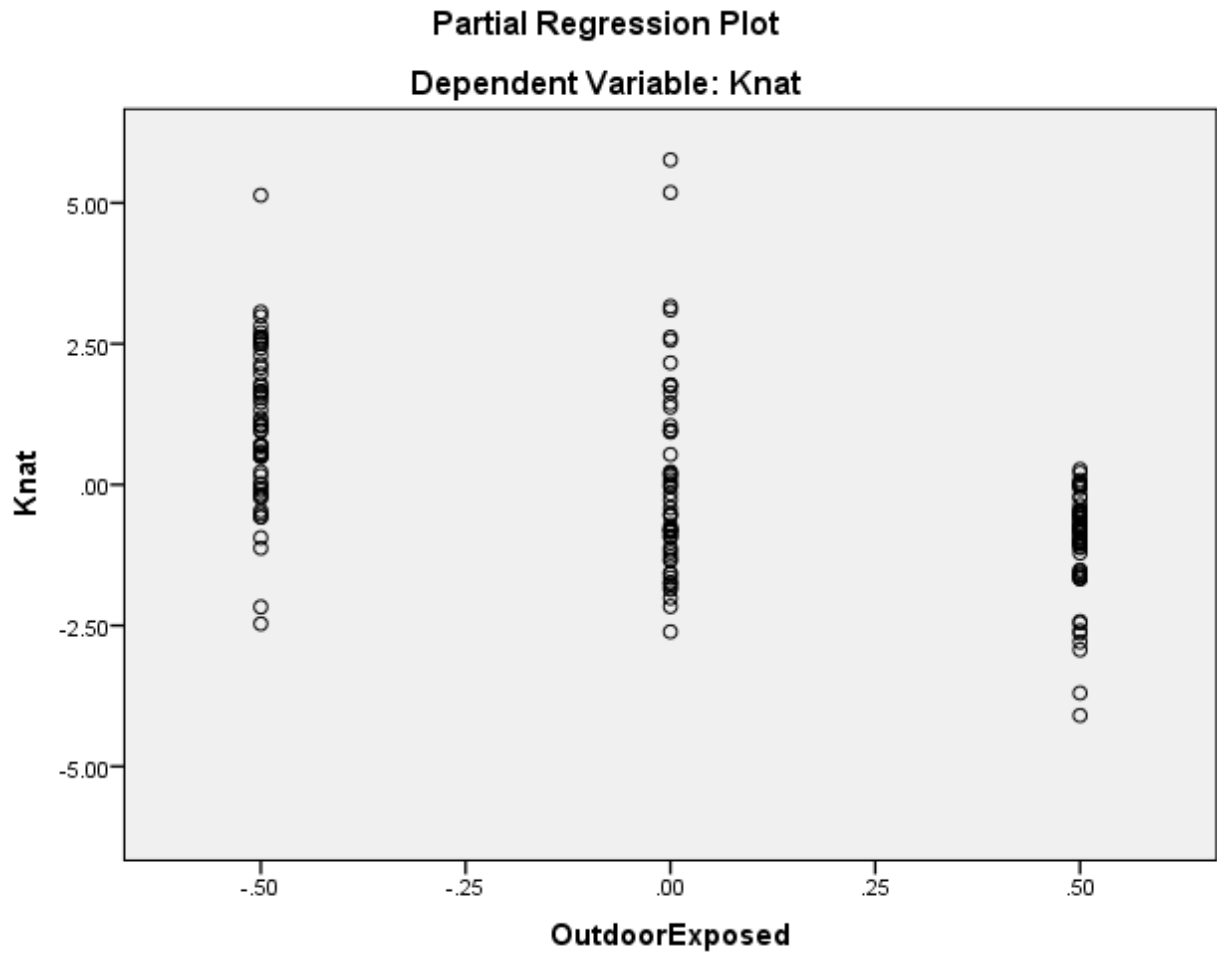


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER OPI Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
OPI	9.633	.4043	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	OPI	Threedays	SevenDays
Pearson Correlation	Knat	1.000	-.738	.265	.020
	OPI	-.738	1.000	-.172	-.032
	Threedays	.265	-.172	1.000	-.500
	SevenDays	.020	-.032	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.396
	OPI	.000	.	.010	.334
	Threedays	.000	.010	.	.000
	SevenDays	.396	.334	.000	.
	OutdoorSheltered	.000	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500
N	Knat	180	180	180	180
	OPI	180	180	180	180
	Threedays	180	180	180	180
	SevenDays	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	OPI	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	OPI	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	OPI	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, OPI, OutdoorSheltered, Threedays ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.832 ^a	.693	.684	2.09866	1.174

a. Predictors: (Constant), OutdoorExposed, SevenDays, OPI, OutdoorSheltered, Threedays

b. Dependent Variable: Knat

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	1728.953	5	345.791	78.511	.000 ^b
Residual	766.359	174	4.404		
Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, OPI, OutdoorSheltered, Threedays

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	68.387	3.894		17.564	.000
	OPI	-6.485	.398	-.702	-16.306	.000
	Threedays	1.504	.393	.190	3.831	.000
	SevenDays	.730	.387	.092	1.887	.061
	OutdoorSheltered	1.066	.383	.135	2.783	.006
	OutdoorExposed	-2.069	.383	-.262	-5.399	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	60.702	76.071			
	OPI	-7.270	-5.700	-.738	-.777	-.685
	Threedays	.729	2.279	.265	.279	.161
	SevenDays	-.033	1.494	.020	.142	.079
	OutdoorSheltered	.310	1.822	.266	.206	.117
	OutdoorExposed	-2.825	-1.313	-.329	-.379	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	OPI	.952	1.051
	Threedays	.714	1.400
	SevenDays	.736	1.360
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	OPI	Threedays	SevenDays
1	1	3.471	1.000	.00	.00	.02	.02
	2	1.000	1.863	.00	.00	.24	.24
	3	1.000	1.863	.00	.00	.00	.00
	4	.333	3.227	.00	.00	.36	.37
	5	.195	4.223	.00	.00	.32	.34
	6	.001	65.029	1.00	1.00	.06	.03

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.02	.02
	2	.00	.00
	3	.25	.25
	4	.37	.37
	5	.37	.37
	6	.00	.00

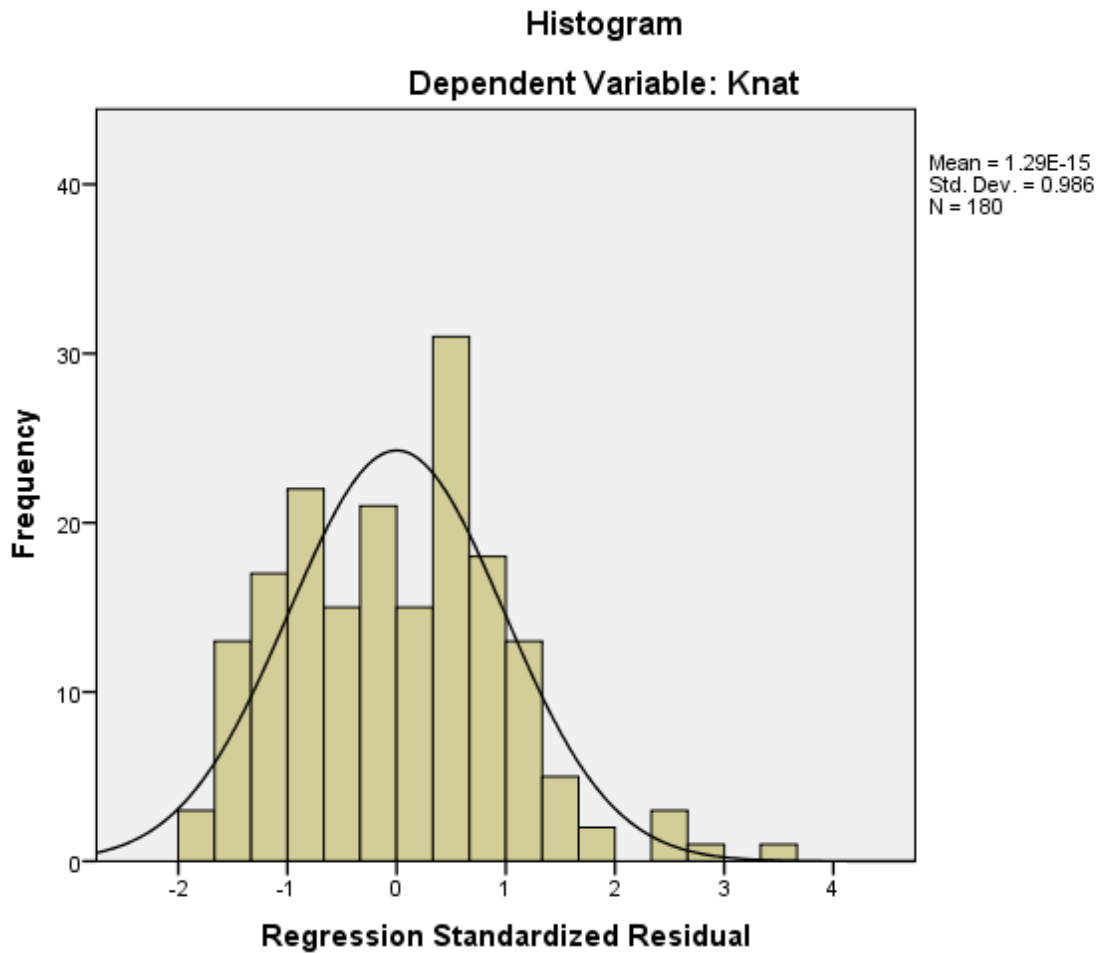
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.1305	17.7762	6.3209	3.10789	180
Residual	-3.81105	7.09283	.00000	2.06914	180
Std. Predicted Value	-2.398	3.686	.000	1.000	180
Std. Residual	-1.816	3.380	.000	.986	180

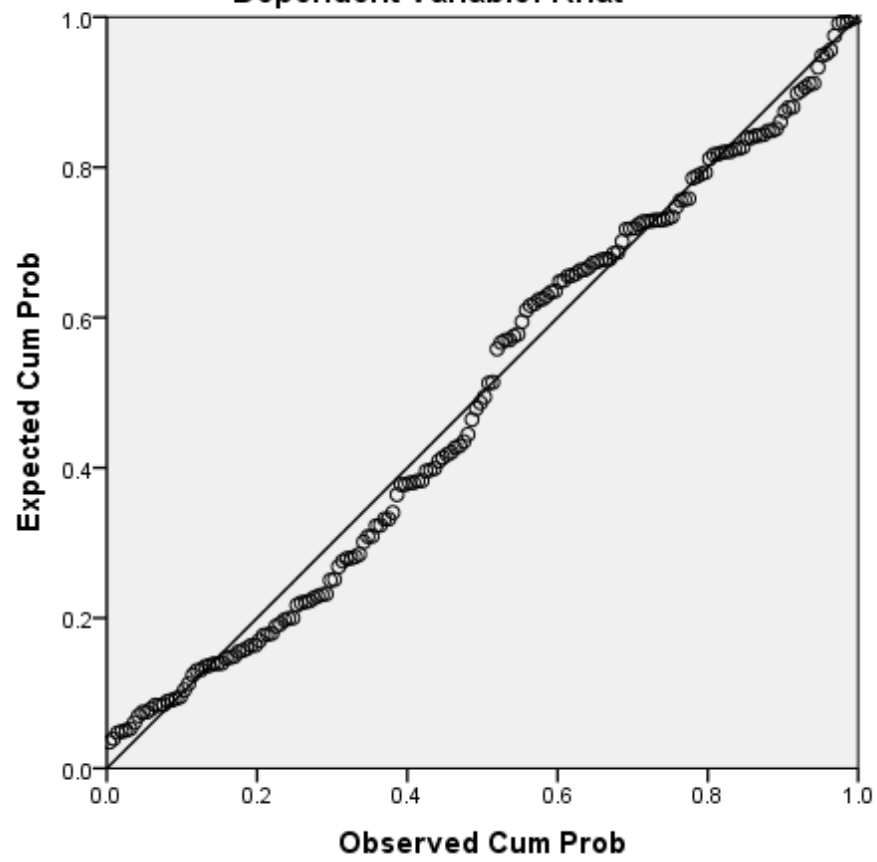
a. Dependent Variable: Knat

Charts



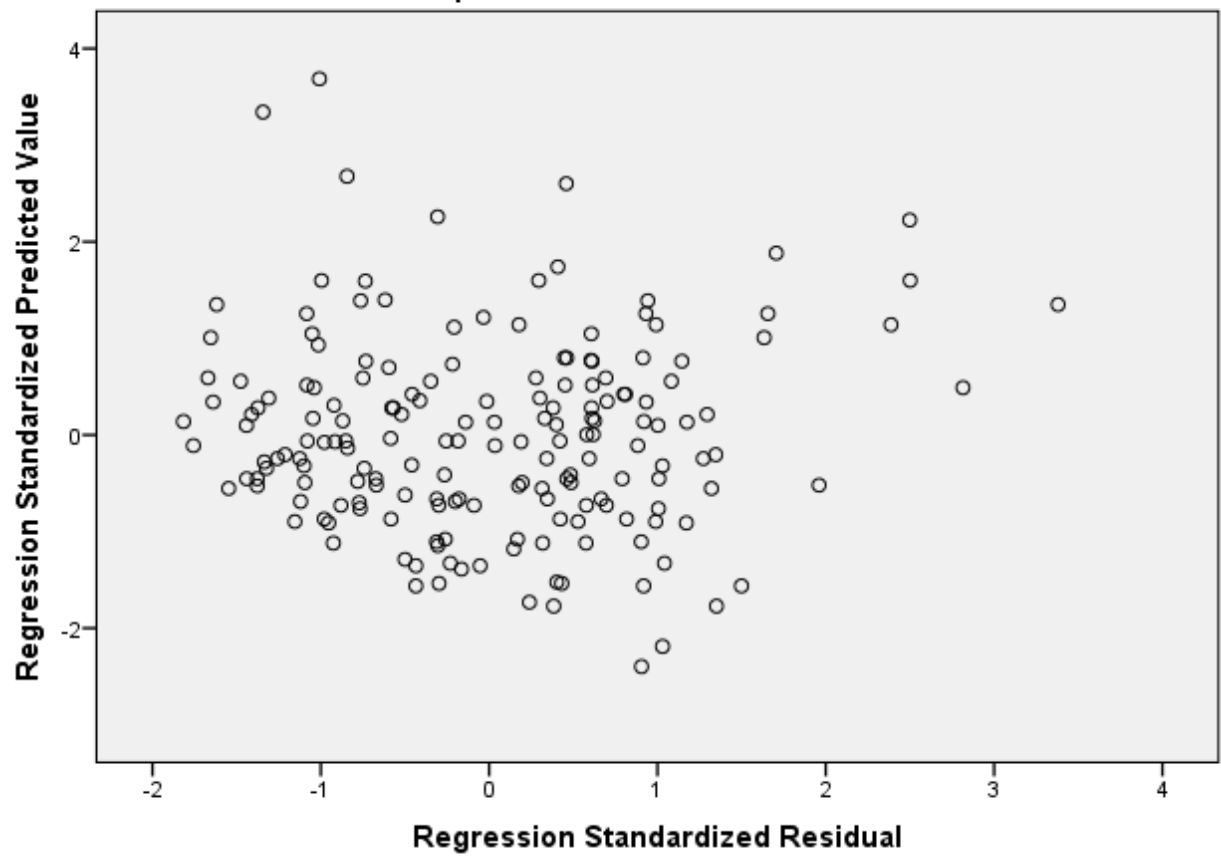
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

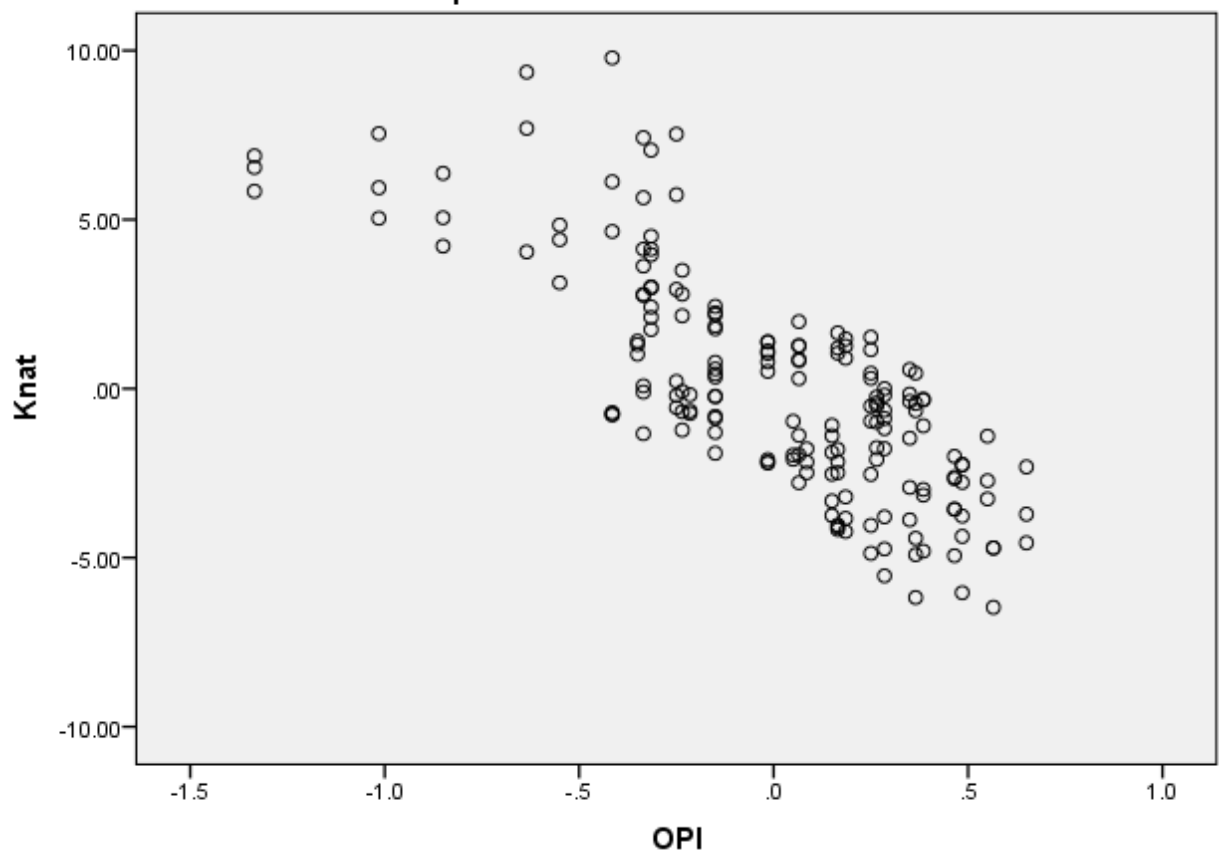


Scatterplot

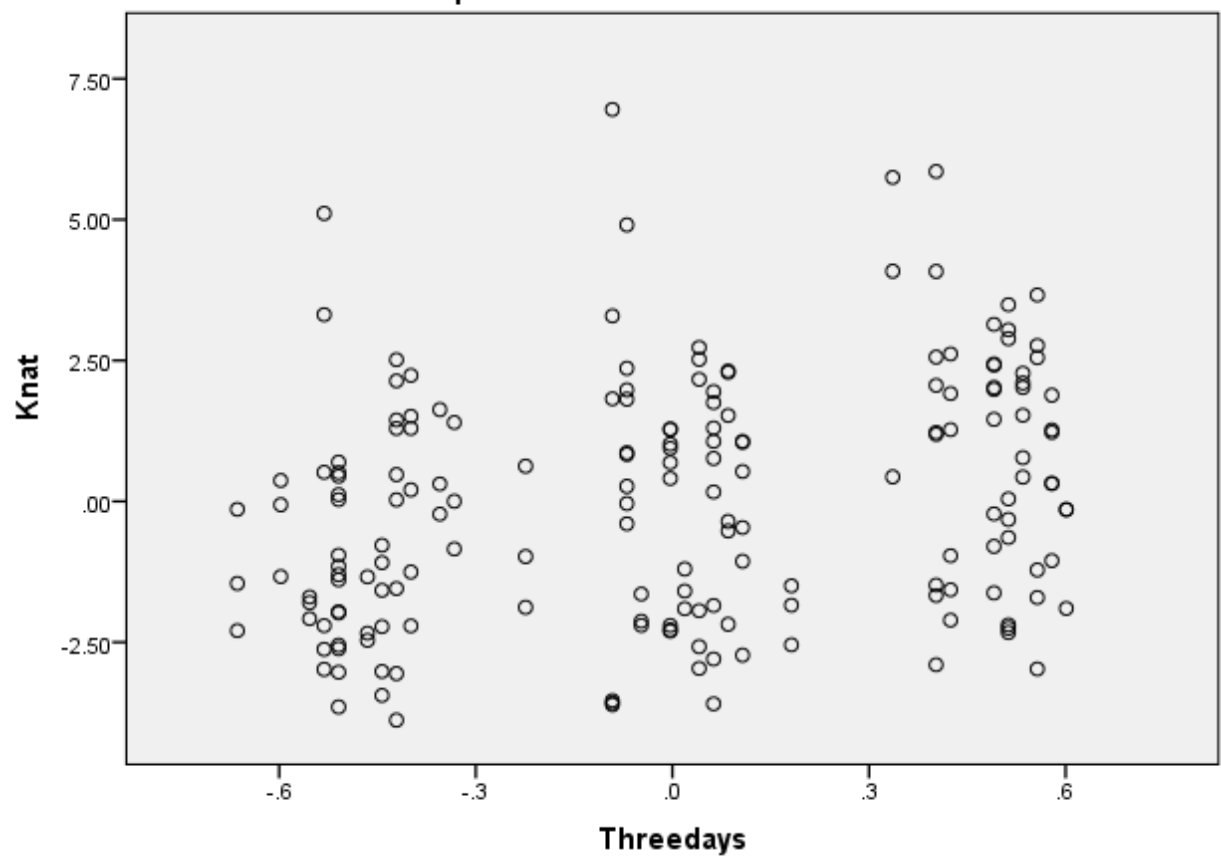
Dependent Variable: Knot



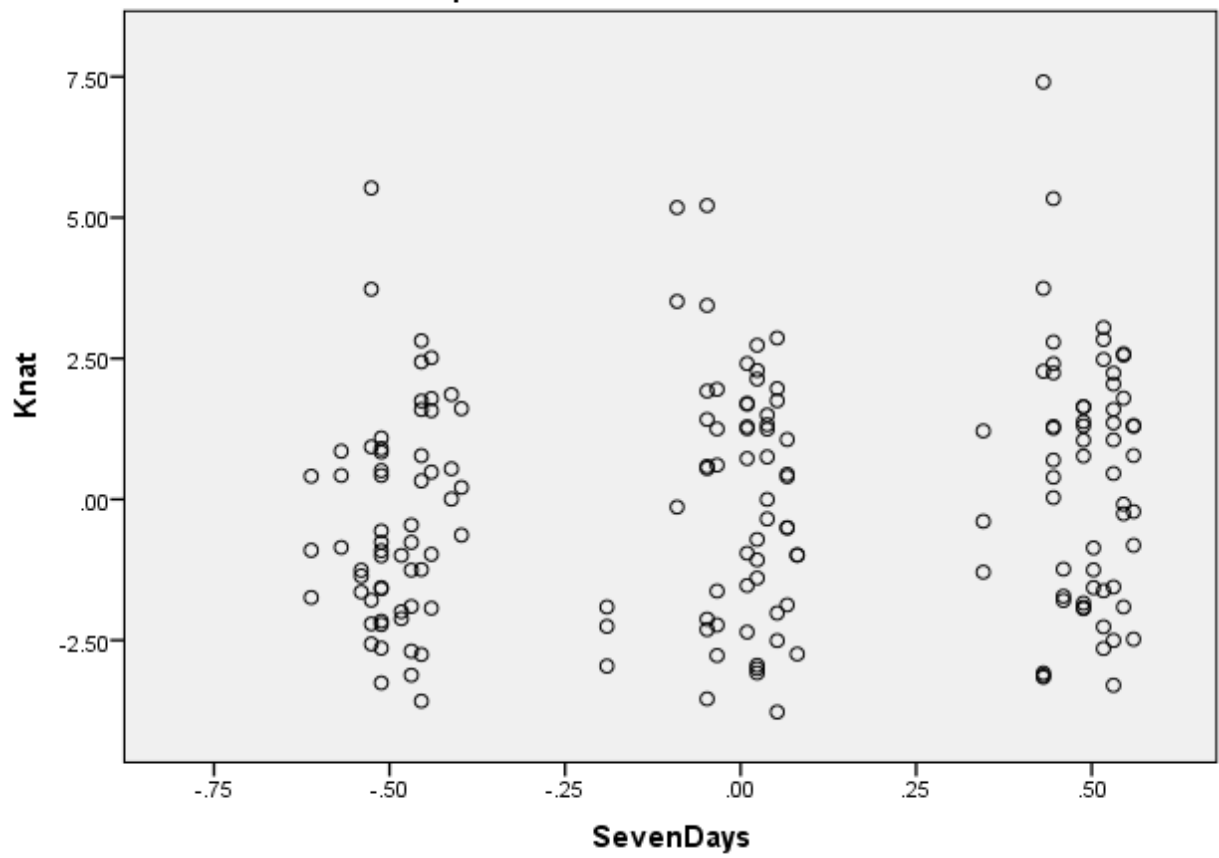
Partial Regression Plot
Dependent Variable: Knat



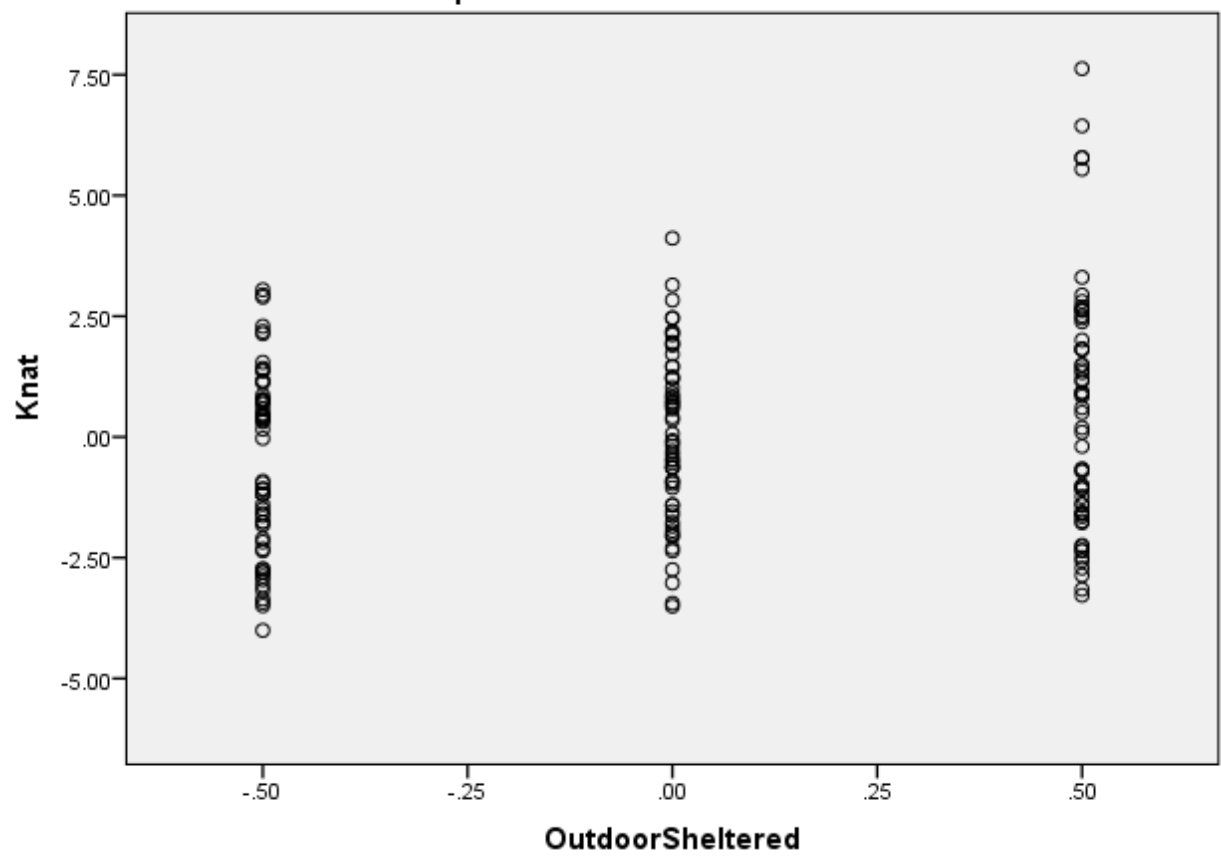
Partial Regression Plot
Dependent Variable: Knat

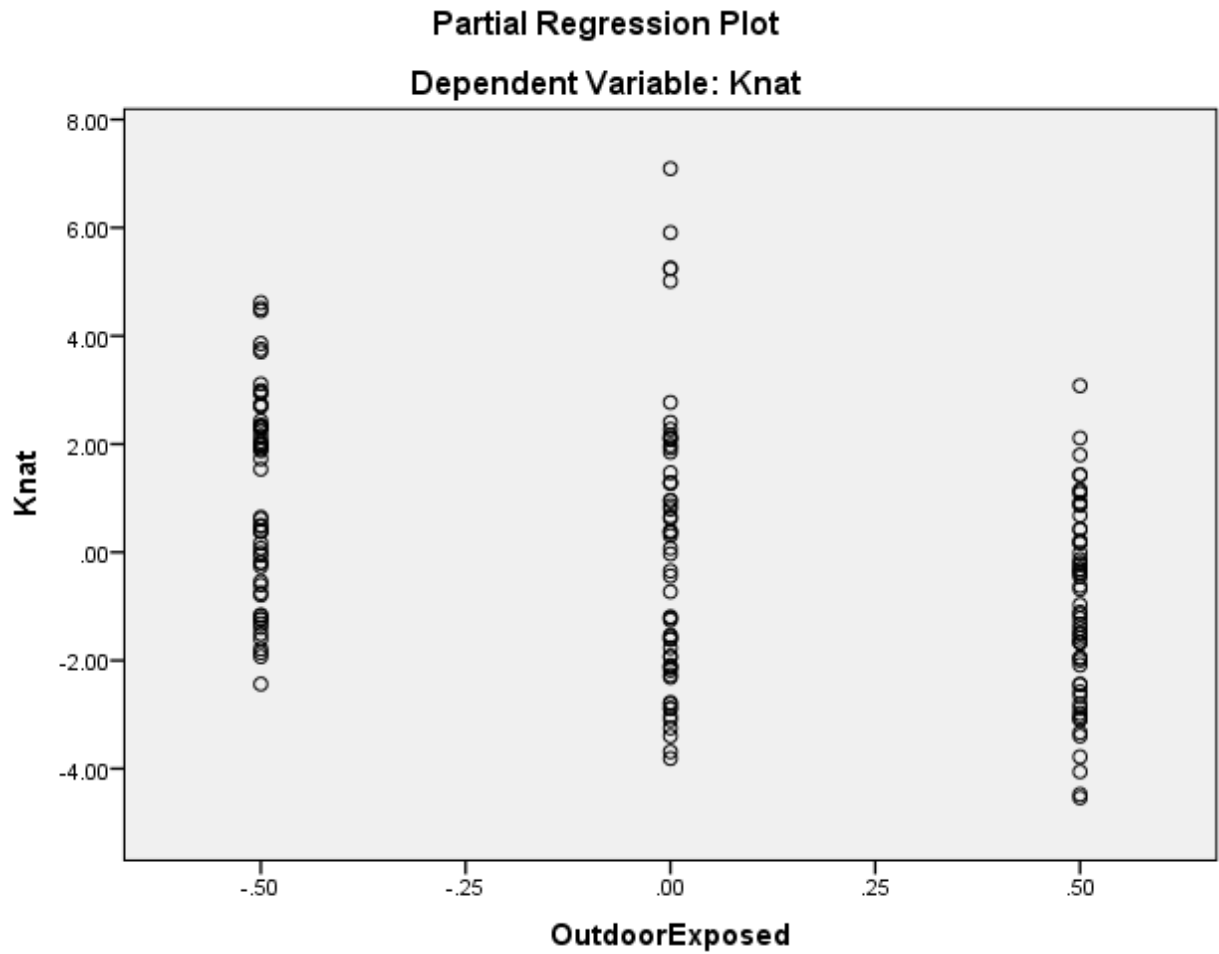


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER WS Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
WS	10.028	3.8857	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	WS	Threedays	SevenDays
Pearson Correlation	Knat	1.000	.747	.265	.020
	WS	.747	1.000	.286	-.049
	Threedays	.265	.286	1.000	-.500
	SevenDays	.020	-.049	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.396
	WS	.000	.	.000	.257
	Threedays	.000	.000	.	.000
	SevenDays	.396	.257	.000	.
	OutdoorSheltered	.000	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500
N	Knat	180	180	180	180
	WS	180	180	180	180
	Threedays	180	180	180	180
	SevenDays	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	WS	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	WS	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	WS	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, WS, OutdoorSheltered, Threedays ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.832 ^a	.692	.683	2.10077	1.084

a. Predictors: (Constant), OutdoorExposed, SevenDays, WS, OutdoorSheltered, Threedays

b. Dependent Variable: Knat

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	1727.413	5	345.483	78.284	.000 ^b
Residual	767.899	174	4.413		
Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, WS, OutdoorSheltered, Threedays

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.878	.510		-1.722	.087
	WS	.691	.042	.719	16.279	.000
	Threedays	.919	.402	.116	2.283	.024
	SevenDays	.894	.386	.113	2.316	.022
	OutdoorSheltered	1.066	.384	.135	2.780	.006
	OutdoorExposed	-2.069	.384	-.262	-5.394	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	-1.884	.128			
	WS	.607	.775	.747	.777	.685
	Threedays	.125	1.713	.265	.171	.096
	SevenDays	.132	1.656	.020	.173	.097
	OutdoorSheltered	.309	1.823	.266	.206	.117
	OutdoorExposed	-2.826	-1.312	-.329	-.378	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	WS	.906	1.103
	Threedays	.682	1.467
	SevenDays	.740	1.351
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	WS	Threedays	SevenDays
1	1	3.409	1.000	.01	.01	.02	.02
	2	1.004	1.843	.00	.00	.21	.26
	3	1.000	1.846	.00	.00	.00	.00
	4	.338	3.177	.00	.01	.26	.30
	5	.190	4.231	.07	.20	.51	.40
	6	.059	7.571	.92	.79	.00	.02

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.02	.02
	2	.00	.00
	3	.25	.25
	4	.43	.43
	5	.22	.22
	6	.08	.08

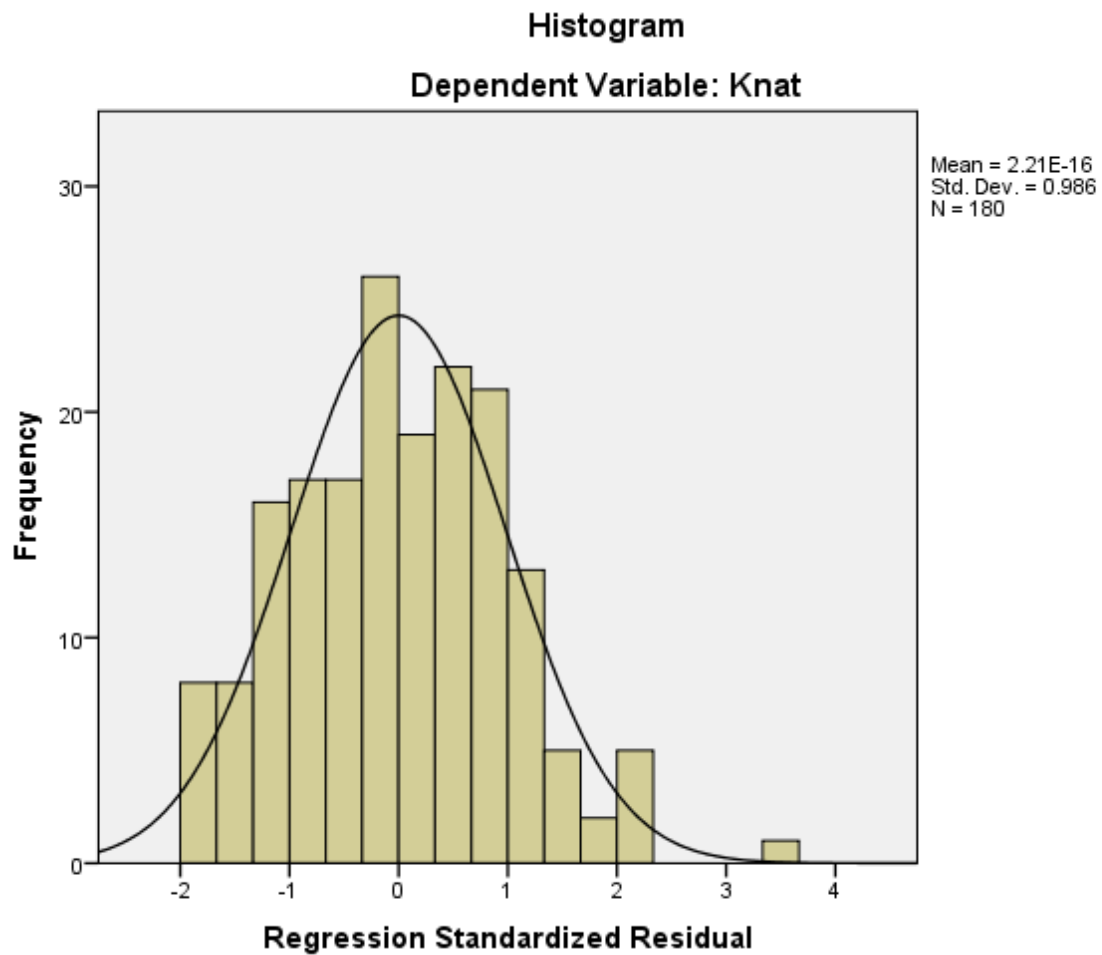
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.5976	14.9254	6.3209	3.10650	180
Residual	-4.18152	7.33842	.00000	2.07122	180
Std. Predicted Value	-2.227	2.770	.000	1.000	180
Std. Residual	-1.990	3.493	.000	.986	180

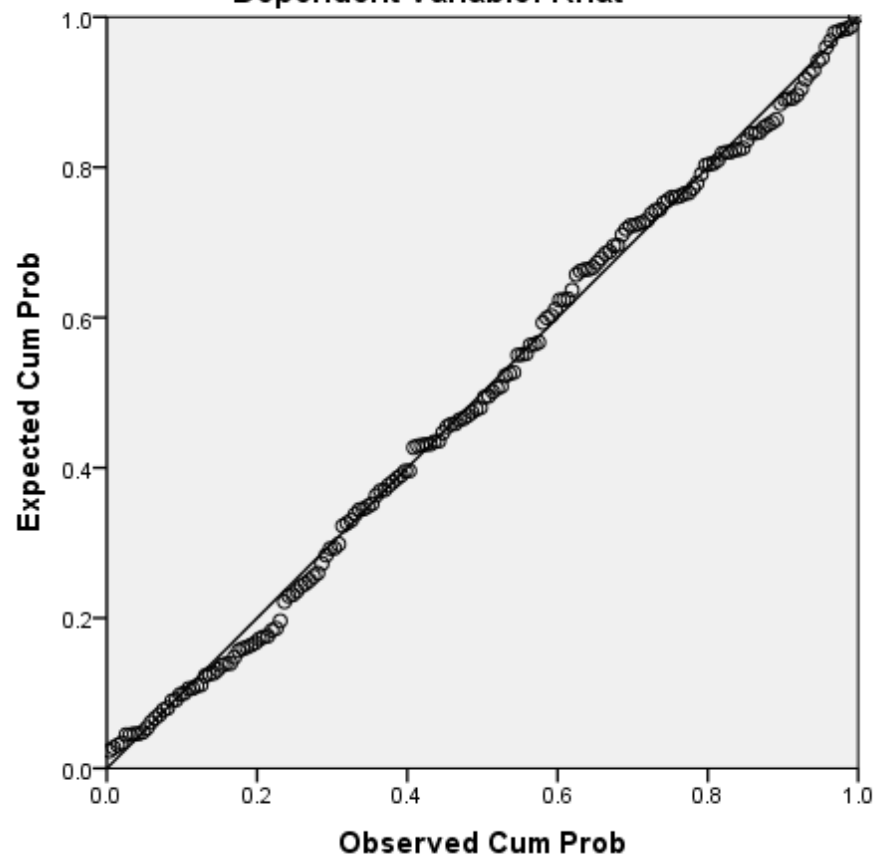
a. Dependent Variable: Knat

Charts



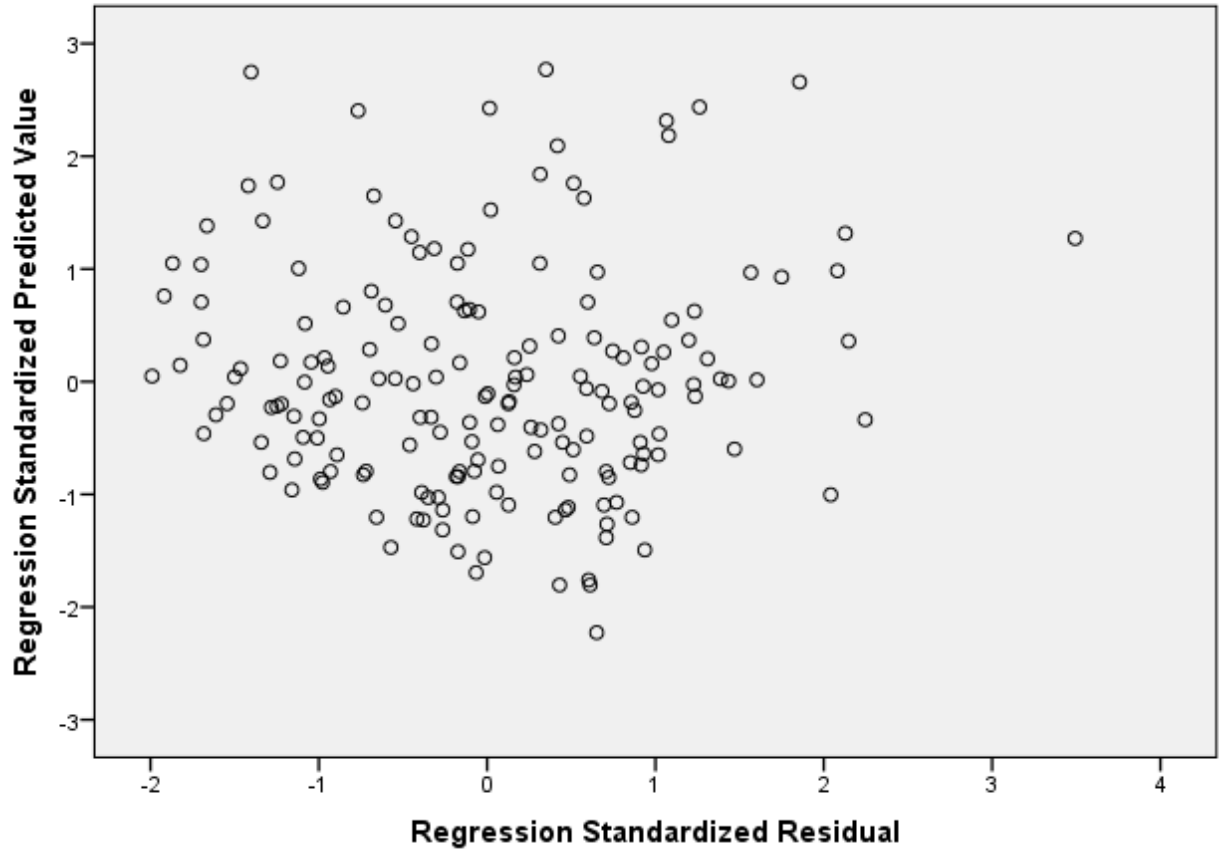
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

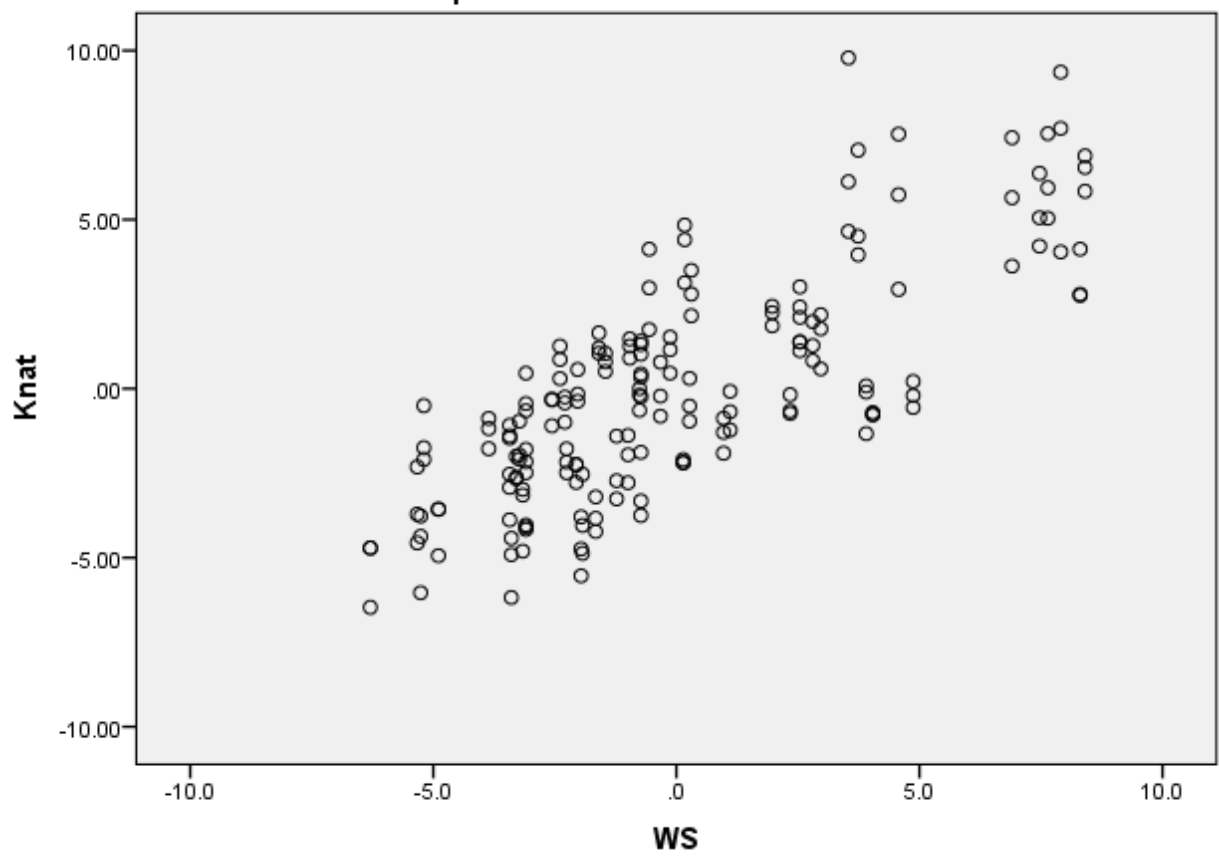


Scatterplot

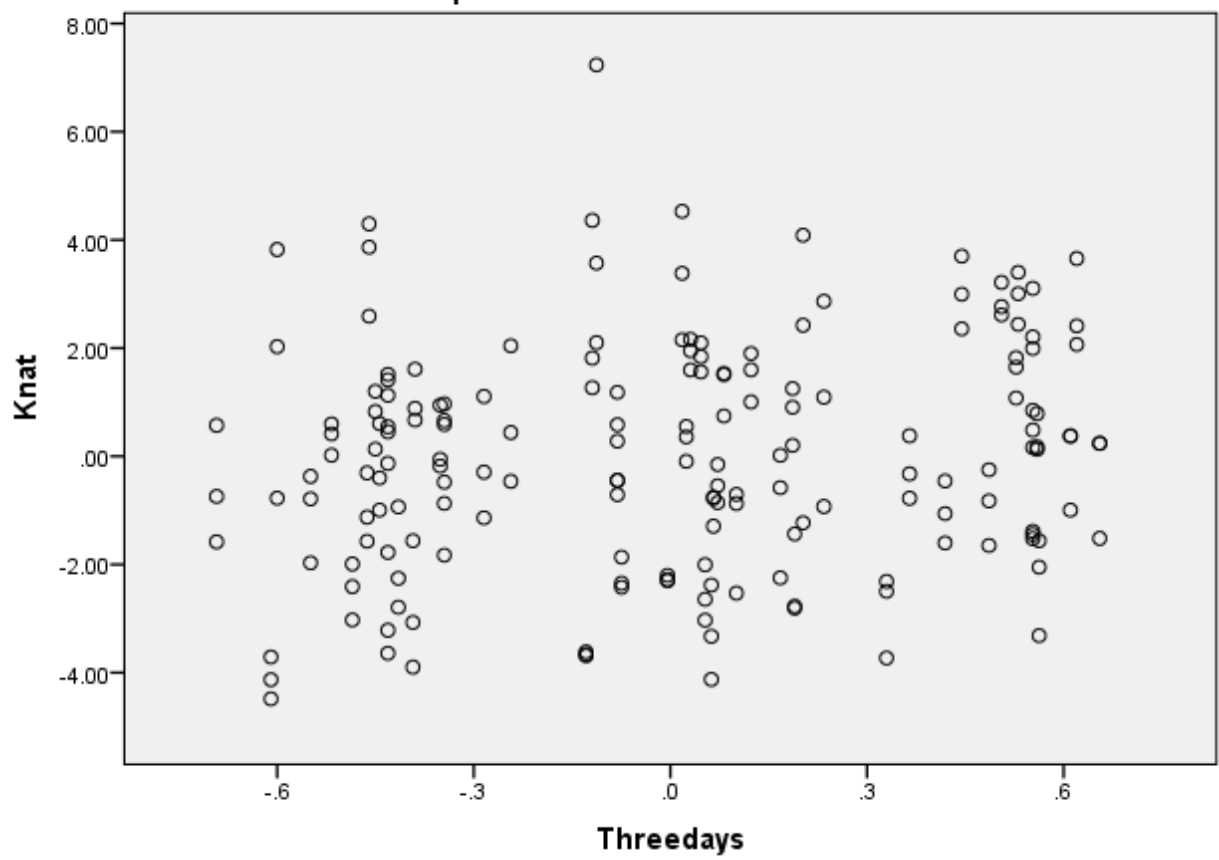
Dependent Variable: Knat



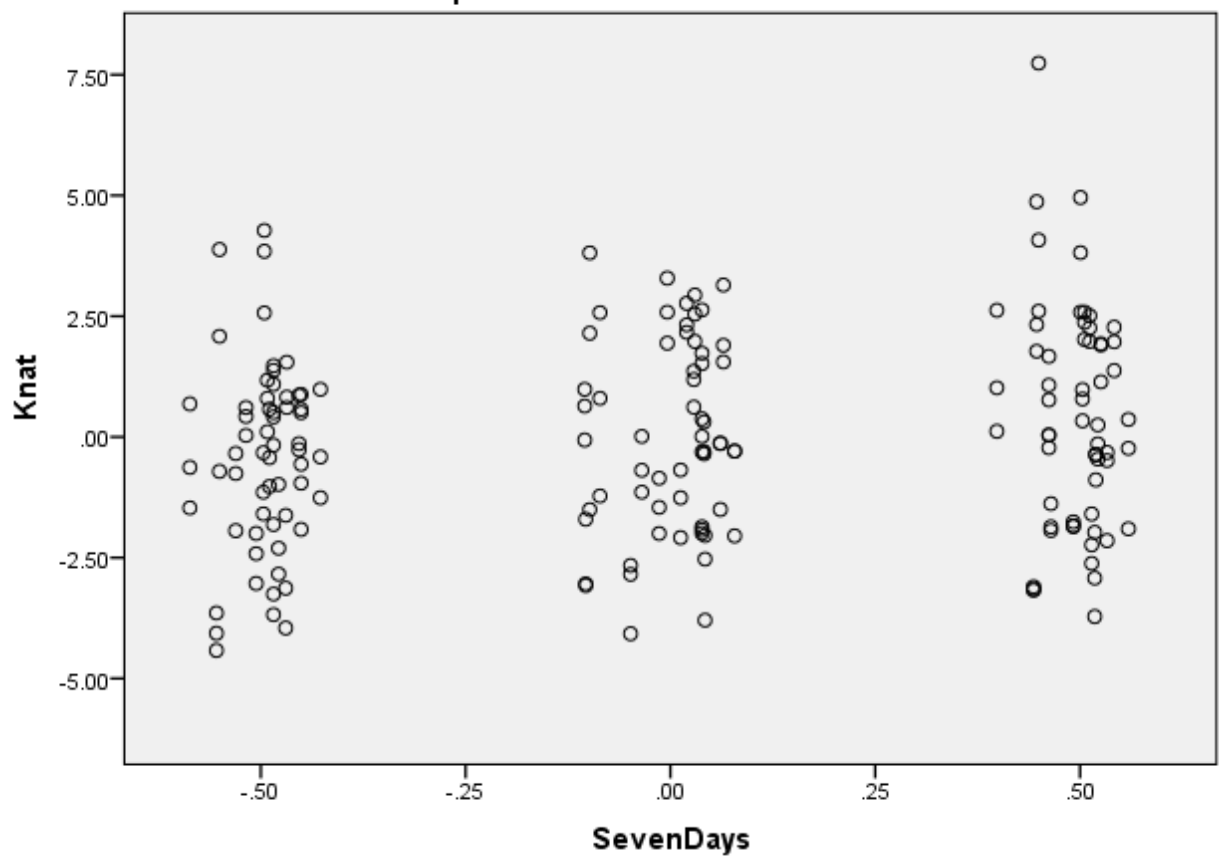
Partial Regression Plot
Dependent Variable: Knat



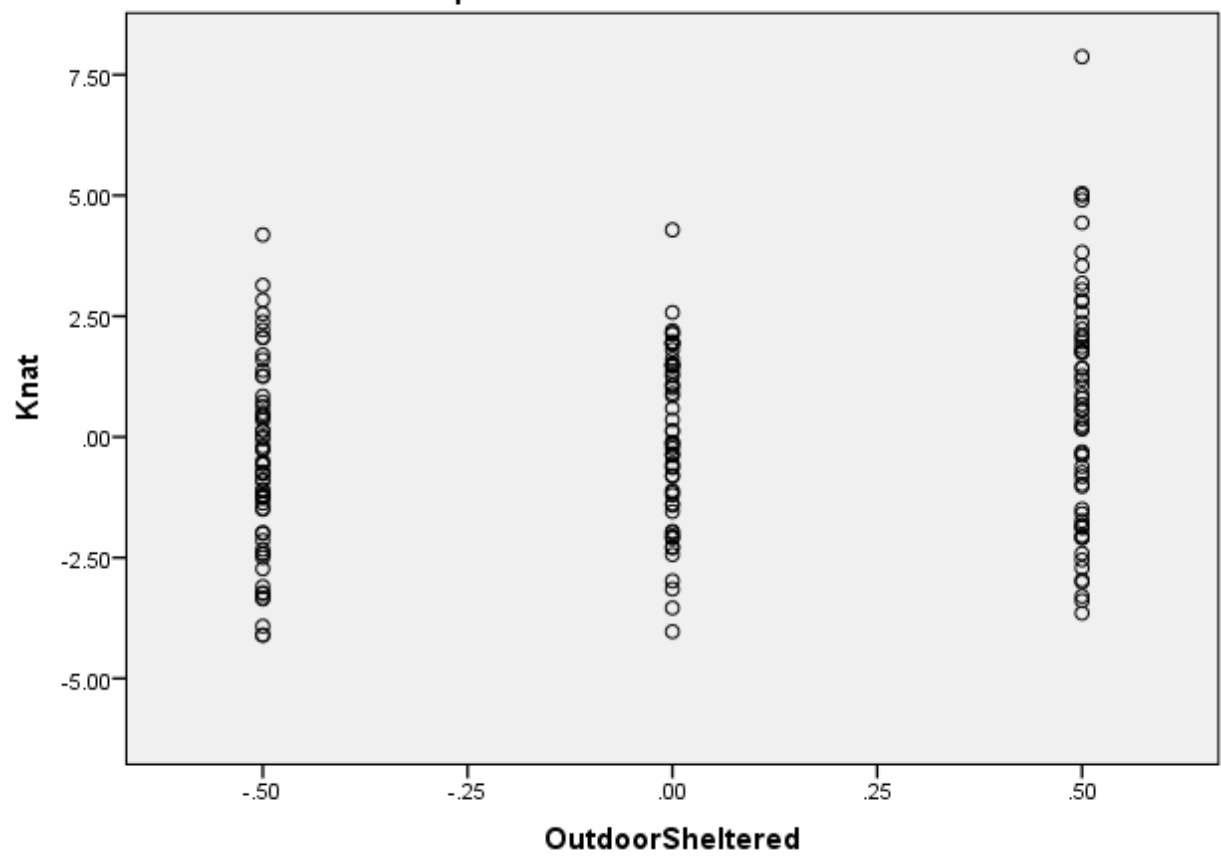
Partial Regression Plot
Dependent Variable: Knat

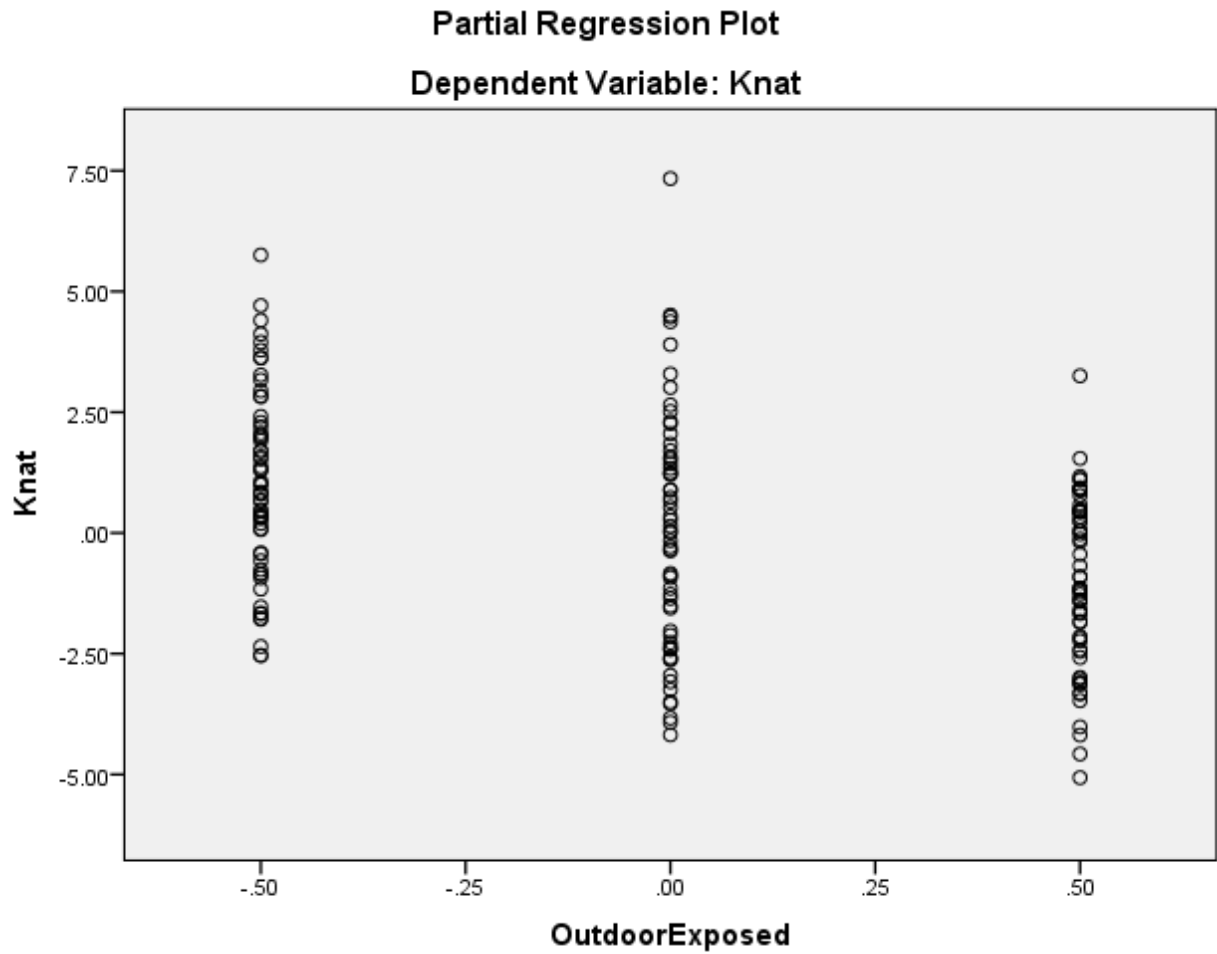


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER Kacc Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
Kacc	3.9405	2.68582	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	Kacc	Threedays	SevenDays
Pearson Correlation	Knat	1.000	.857	.265	.020
	Kacc	.857	1.000	.177	.010
	Threedays	.265	.177	1.000	-.500
	SevenDays	.020	.010	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.396
	Kacc	.000	.	.009	.445
	Threedays	.000	.009	.	.000
	SevenDays	.396	.445	.000	.
	OutdoorSheltered	.000	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500
N	Knat	180	180	180	180
	Kacc	180	180	180	180
	Threedays	180	180	180	180
	SevenDays	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	Kacc	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	Kacc	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	Kacc	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson

1	.936 ^a	.876	.873	1.33102	1.343

a. Predictors: (Constant), OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays

b. Dependent Variable: Knat

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	2187.053	5	437.411	246.901	.000 ^b
Residual	308.259	174	1.772		
Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	1.442	.253		5.693	.000
Kacc	1.149	.038	.827	30.325	.000
Threedays	1.311	.249	.166	5.273	.000
SevenDays	.744	.245	.094	3.040	.003
OutdoorSheltered	1.066	.243	.135	4.387	.000
OutdoorExposed	-2.069	.243	-.262	-8.513	.000

Coefficients^a

Model	95.0% Confidence Interval for B		Correlations		
	Lower Bound	Upper Bound	Zero-order	Partial	Part
1 (Constant)	.942	1.942			
Kacc	1.074	1.224	.857	.917	.808
Threedays	.820	1.801	.265	.371	.140
SevenDays	.261	1.227	.020	.225	.081
OutdoorSheltered	.587	1.546	.266	.316	.117
OutdoorExposed	-2.548	-1.589	-.329	-.542	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Kacc	.956	1.047
	Threedays	.717	1.395
	SevenDays	.740	1.352
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	Kacc	Threedays	SevenDays
1	1	3.274	1.000	.01	.02	.02	.02
	2	1.003	1.807	.00	.00	.23	.26
	3	1.000	1.809	.00	.00	.00	.00
	4	.351	3.055	.00	.12	.13	.18
	5	.262	3.538	.00	.60	.50	.38
	6	.111	5.421	.99	.26	.13	.17

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.02	.02
	2	.00	.00
	3	.25	.25
	4	.46	.46
	5	.00	.00
	6	.27	.27

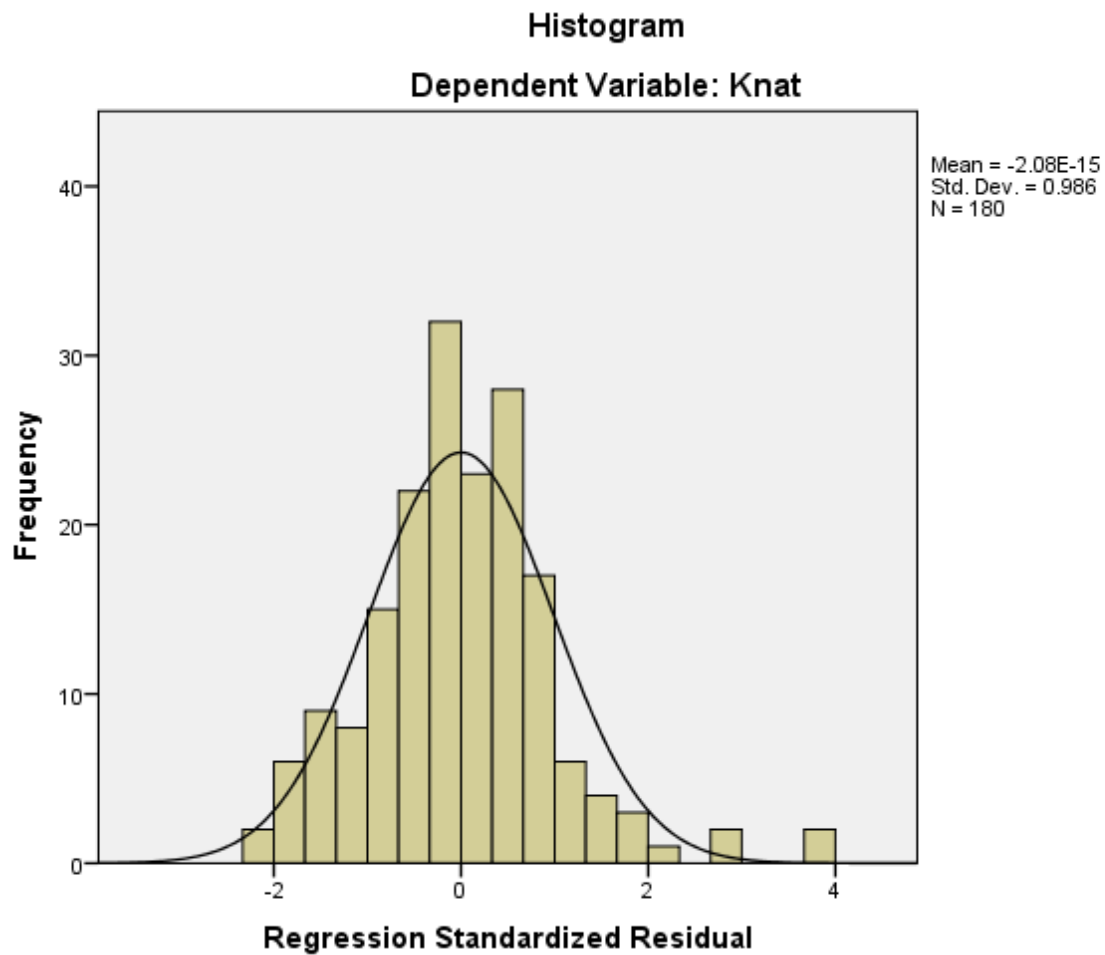
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.6265	17.1257	6.3209	3.49545	180
Residual	-3.07333	5.25684	.00000	1.31229	180
Std. Predicted Value	-1.988	3.091	.000	1.000	180
Std. Residual	-2.309	3.949	.000	.986	180

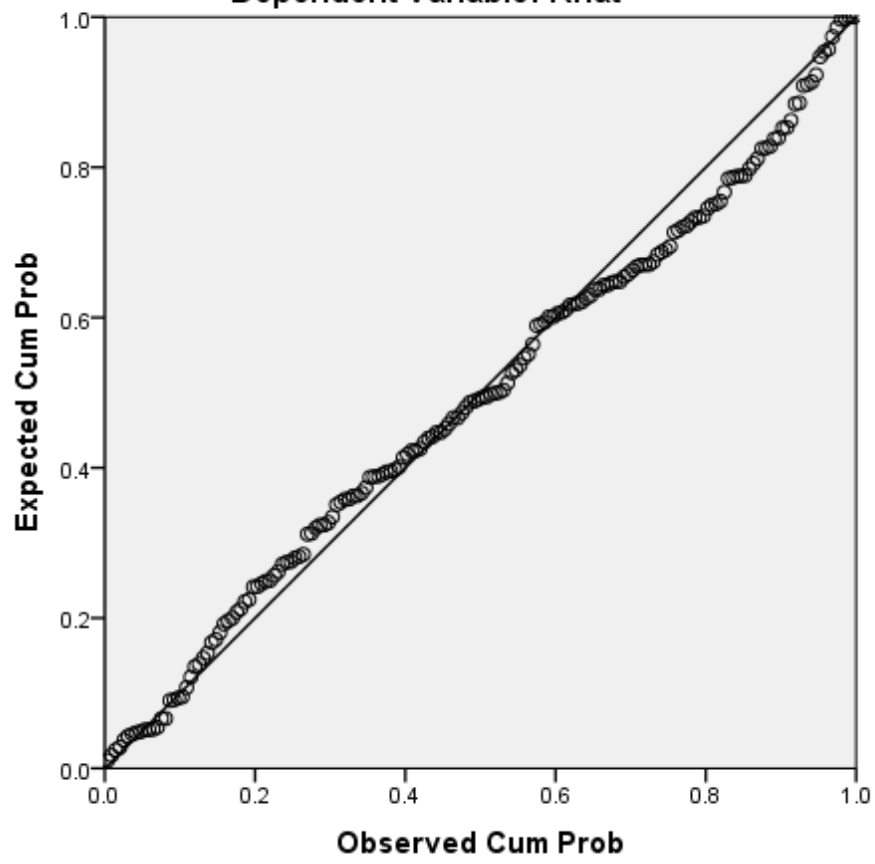
a. Dependent Variable: Knat

Charts



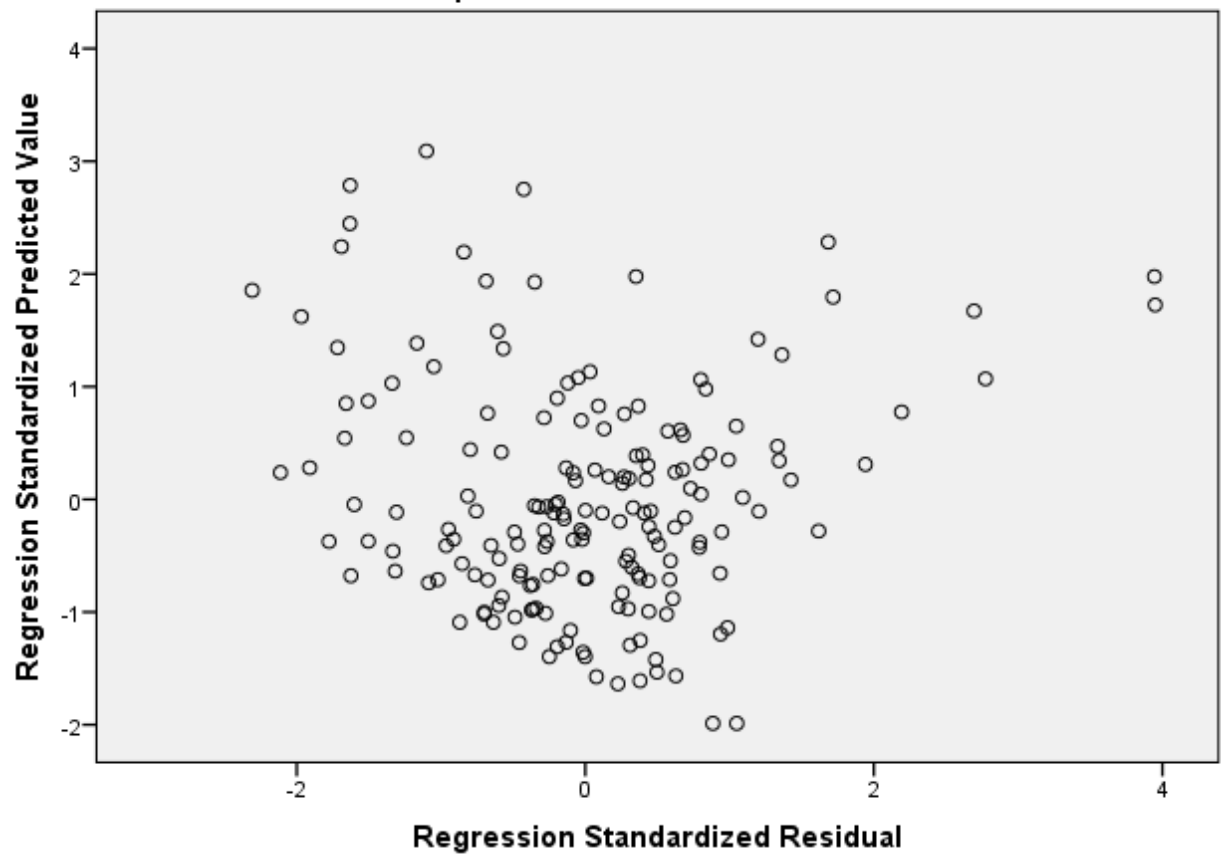
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

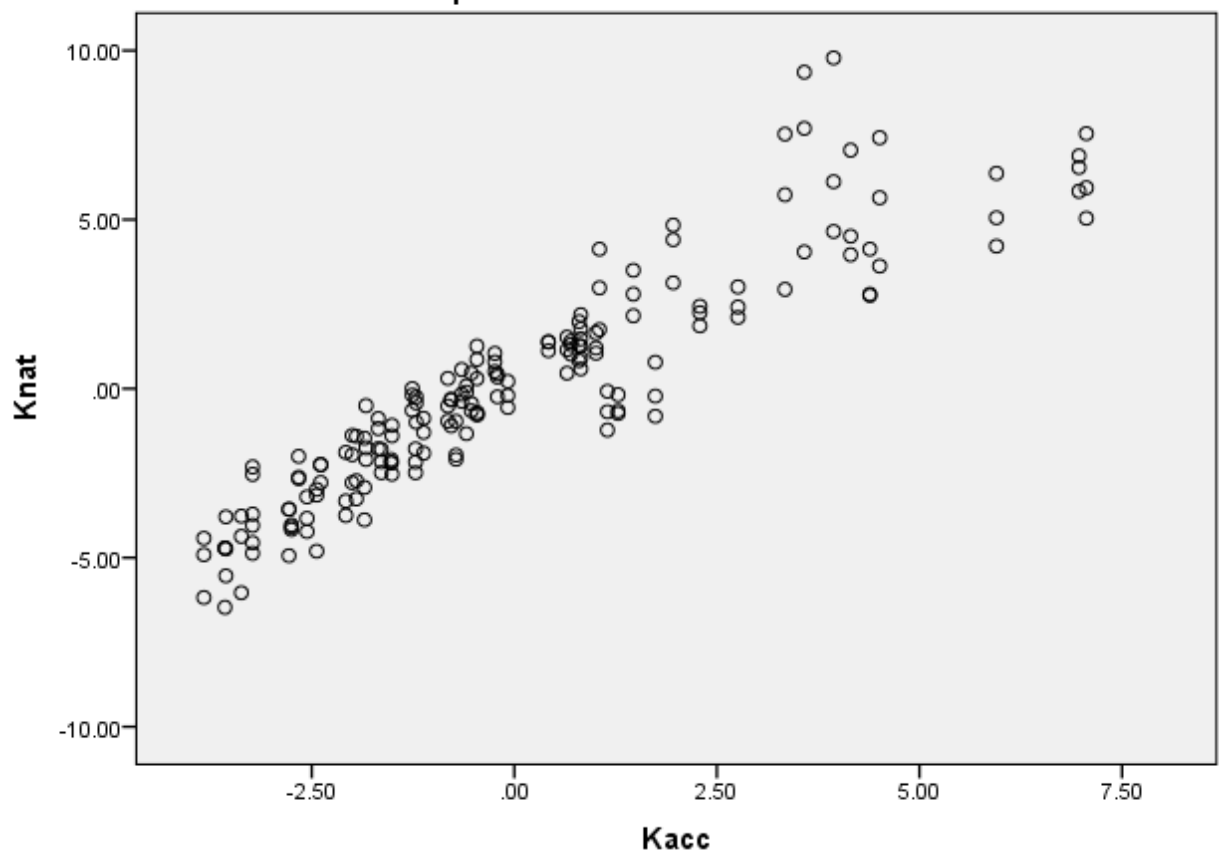


Scatterplot

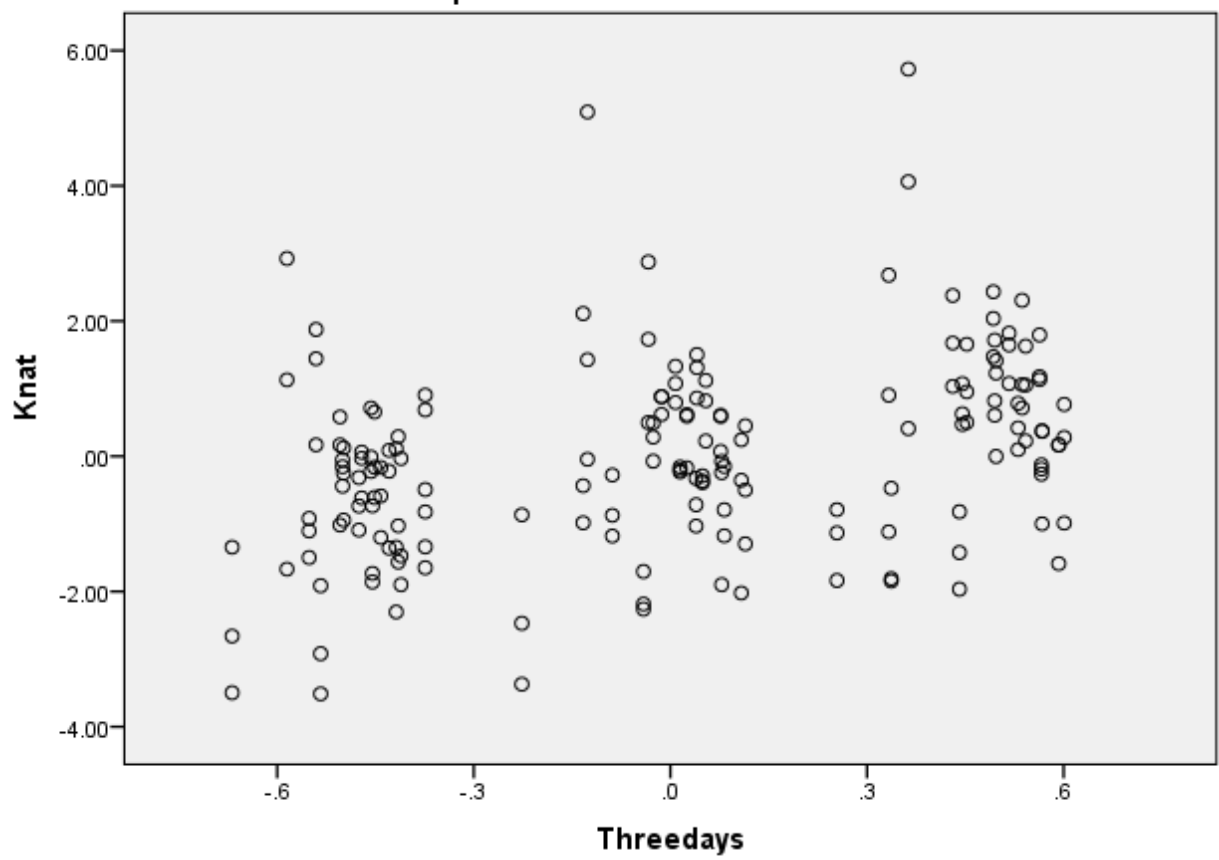
Dependent Variable: Knat



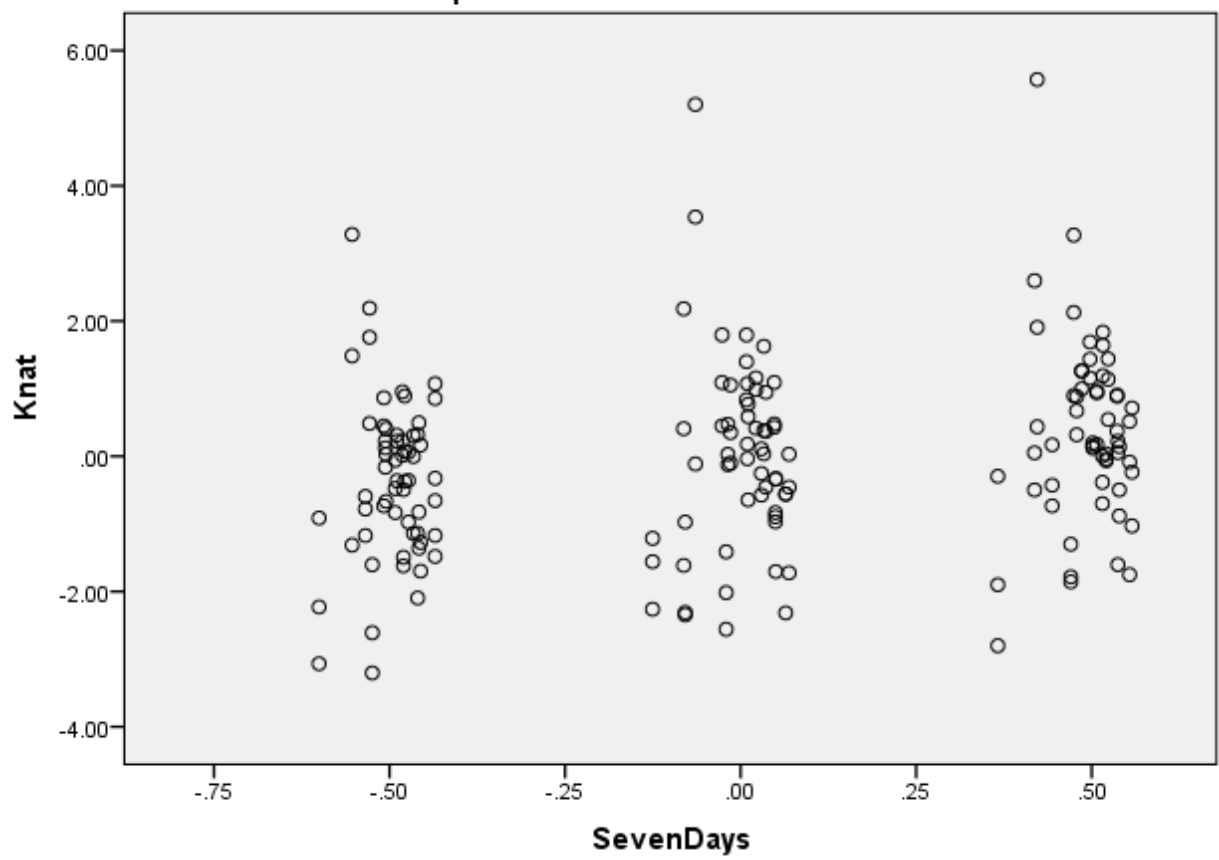
Partial Regression Plot
Dependent Variable: Knat



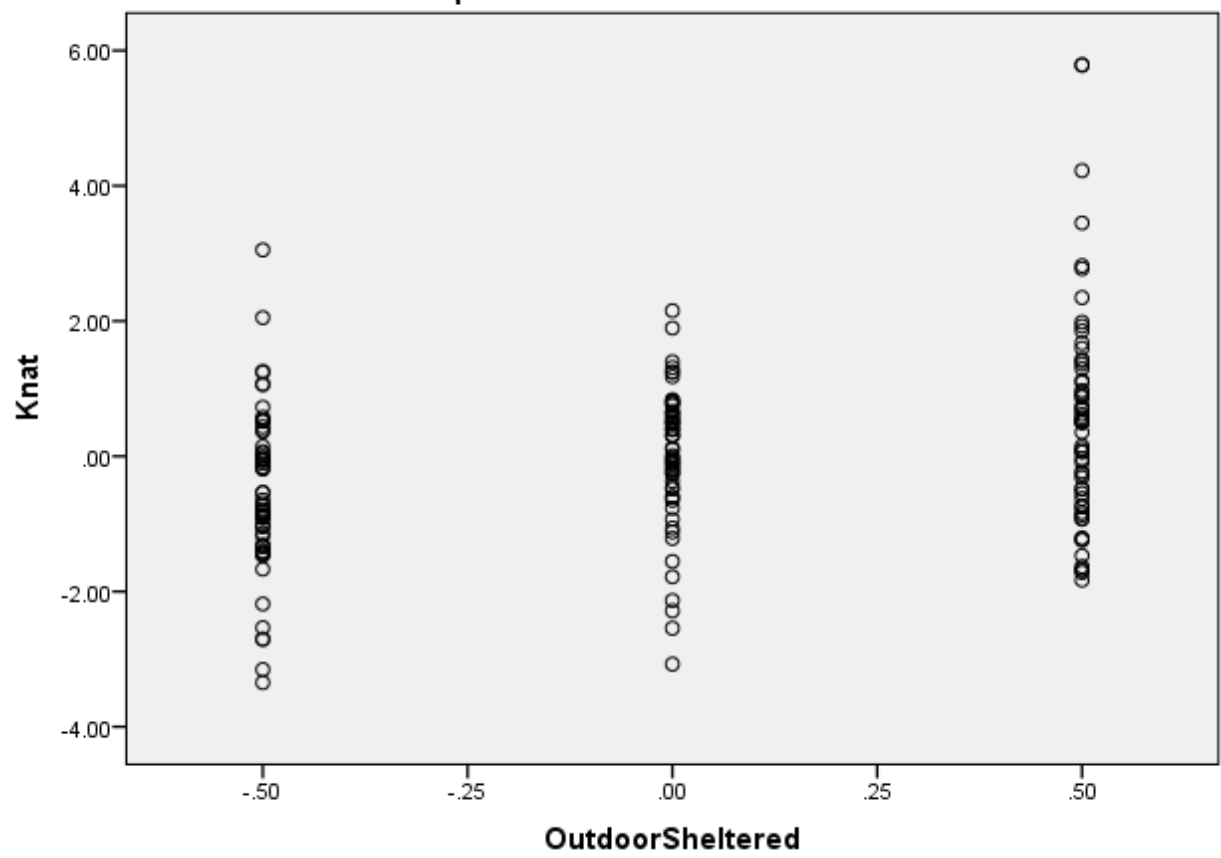
Partial Regression Plot
Dependent Variable: Knat

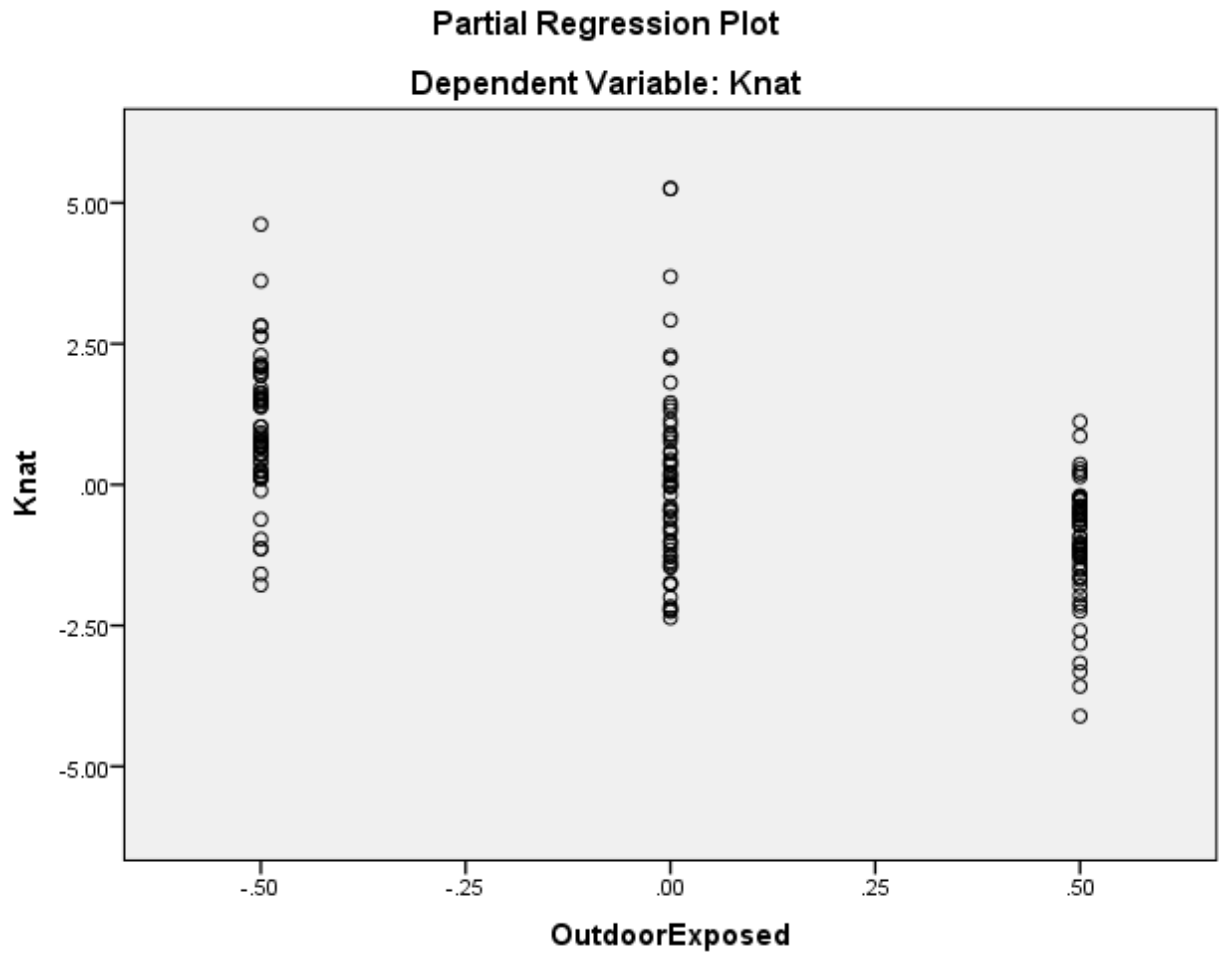


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER OPI CH Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
OPI	9.633	.4043	180
CH	13.4373	2.02095	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	OPI	CH	Threedays	SevenDays
Pearson Correlation	Knat	1.000	-.738	-.744	.265	.020
	OPI	-.738	1.000	.660	-.172	-.032
	CH	-.744	.660	1.000	-.289	-.023
	Threedays	.265	-.172	-.289	1.000	-.500
	SevenDays	.020	-.032	-.023	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.396
	OPI	.000	.	.000	.010	.334
	CH	.000	.000	.	.000	.382
	Threedays	.000	.010	.000	.	.000
	SevenDays	.396	.334	.382	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	OPI	180	180	180	180	180
	CH	180	180	180	180	180
	Threedays	180	180	180	180	180
	SevenDays	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	OPI	.000	.000
	CH	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	OPI	.500	.500
	CH	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	OPI	180	180
	CH	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, CH, OutdoorSheltered, Threedays, OPI ^b	.	Enter

- a. Dependent Variable: Knat
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.888 ^a	.788	.781	1.74707	1.441

- a. Predictors: (Constant), OutdoorExposed, SevenDays, CH, OutdoorSheltered, Threedays, OPI
b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1967.272	6	327.879	107.422	.000 ^b
	Residual	528.040	173	3.052		
	Total	2495.312	179			

- a. Dependent Variable: Knat
b. Predictors: (Constant), OutdoorExposed, SevenDays, CH, OutdoorSheltered, Threedays, OPI

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	56.046	3.529		15.880	.000
	OPI	-4.057	.430	-.439	-9.430	.000
	CH	-.791	.090	-.428	-8.836	.000
	Threedays	.673	.340	.085	1.979	.049
	SevenDays	.305	.326	.039	.937	.350
	OutdoorSheltered	1.066	.319	.135	3.343	.001
	OutdoorExposed	-2.069	.319	-.262	-6.486	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	49.080	63.012			
	OPI	-4.907	-3.208	-.738	-.583	-.330
	CH	-.968	-.614	-.744	-.558	-.309
	Threedays	.002	1.344	.265	.149	.069
	SevenDays	-.338	.948	.020	.071	.033
	OutdoorSheltered	.437	1.696	.266	.246	.117
	OutdoorExposed	-2.698	-1.439	-.329	-.442	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	OPI	.563	1.775
	CH	.521	1.920
	Threedays	.660	1.516
	SevenDays	.720	1.390
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	OPI	CH	Threedays
1	1	4.413	1.000	.00	.00	.00	.01
	2	1.000	2.100	.00	.00	.00	.22
	3	1.000	2.101	.00	.00	.00	.00
	4	.335	3.631	.00	.00	.00	.37
	5	.241	4.281	.00	.00	.01	.22
	6	.010	20.646	.04	.01	.68	.17
	7	.001	87.610	.96	.99	.32	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions

		SevenDays	OutdoorSheltered	OutdoorExposed
1	1	.01	.01	.01
	2	.24	.00	.00
	3	.00	.25	.25
	4	.41	.32	.32
	5	.27	.42	.42
	6	.07	.00	.00
	7	.00	.00	.00

a. Dependent Variable: Knat

Residuals Statistics^a

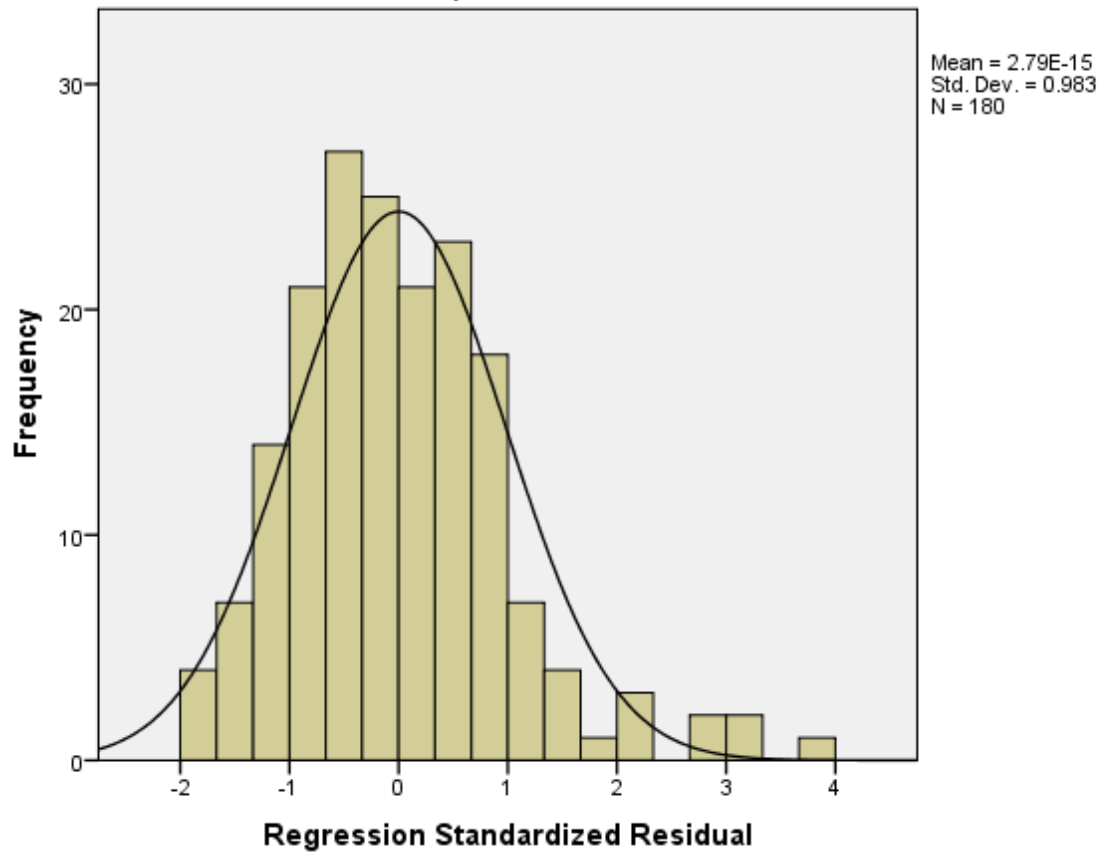
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.4147	17.1729	6.3209	3.31517	180
Residual	-3.26956	6.61864	.00000	1.71754	180
Std. Predicted Value	-2.333	3.273	.000	1.000	180
Std. Residual	-1.871	3.788	.000	.983	180

a. Dependent Variable: Knat

Charts

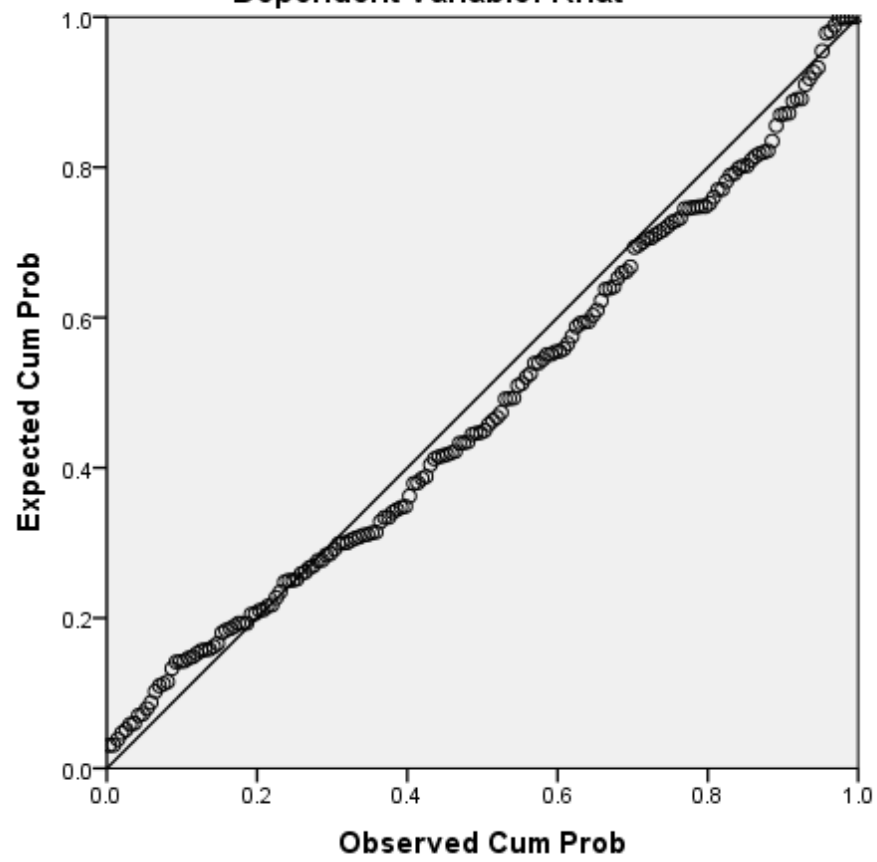
Histogram

Dependent Variable: Knat



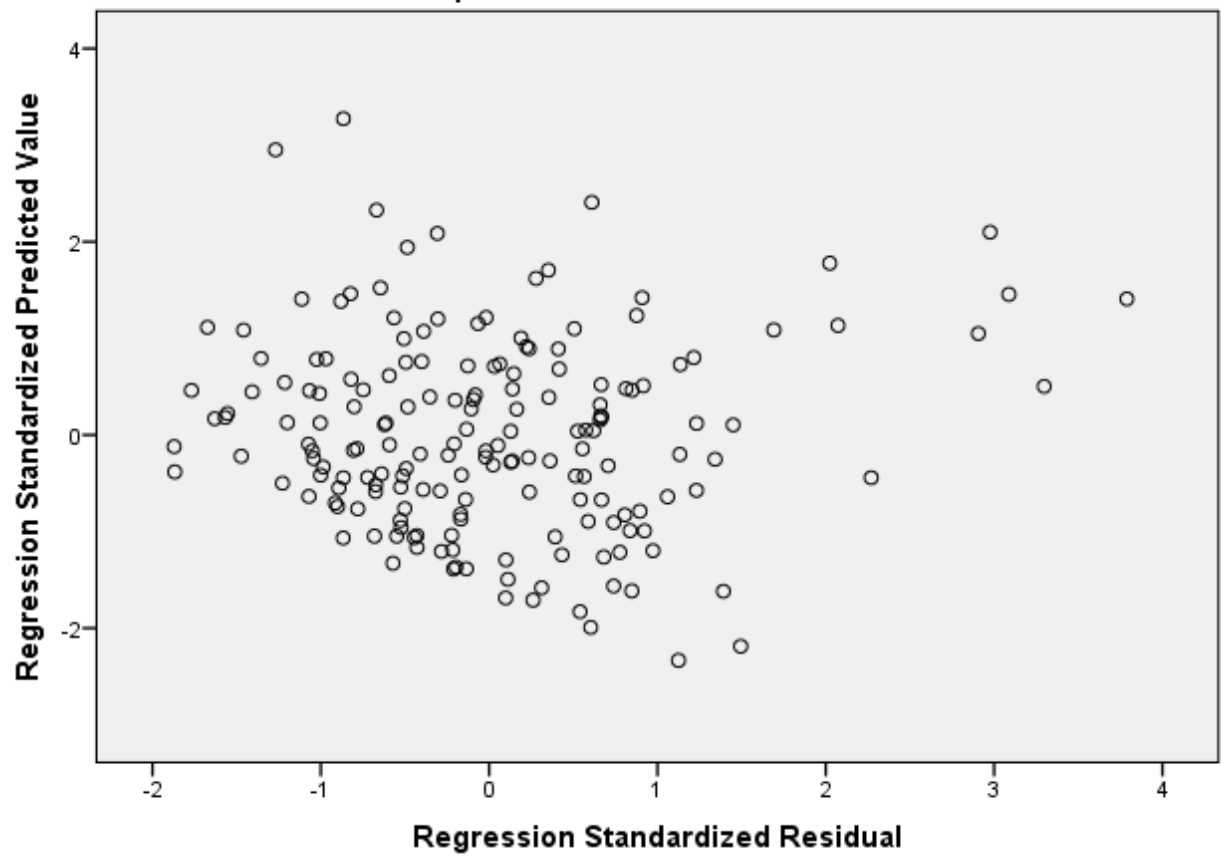
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

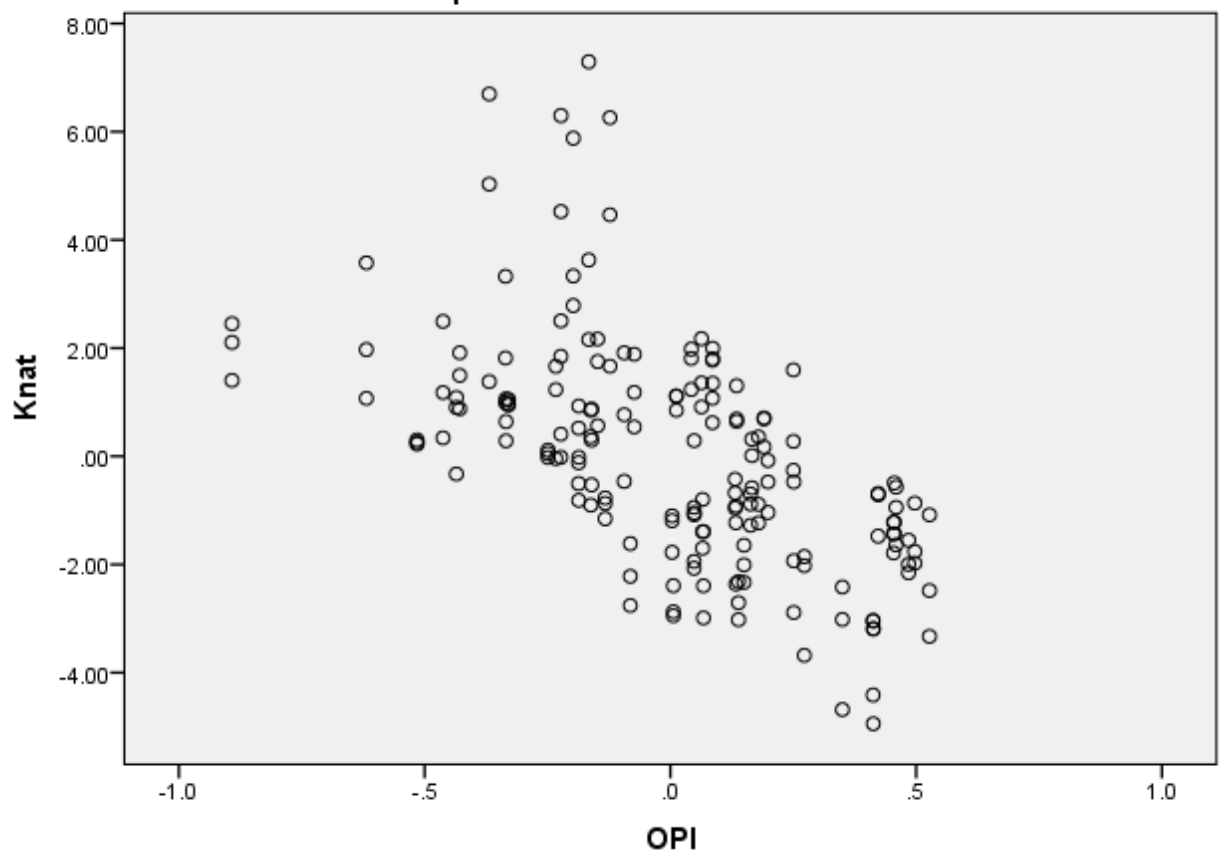


Scatterplot

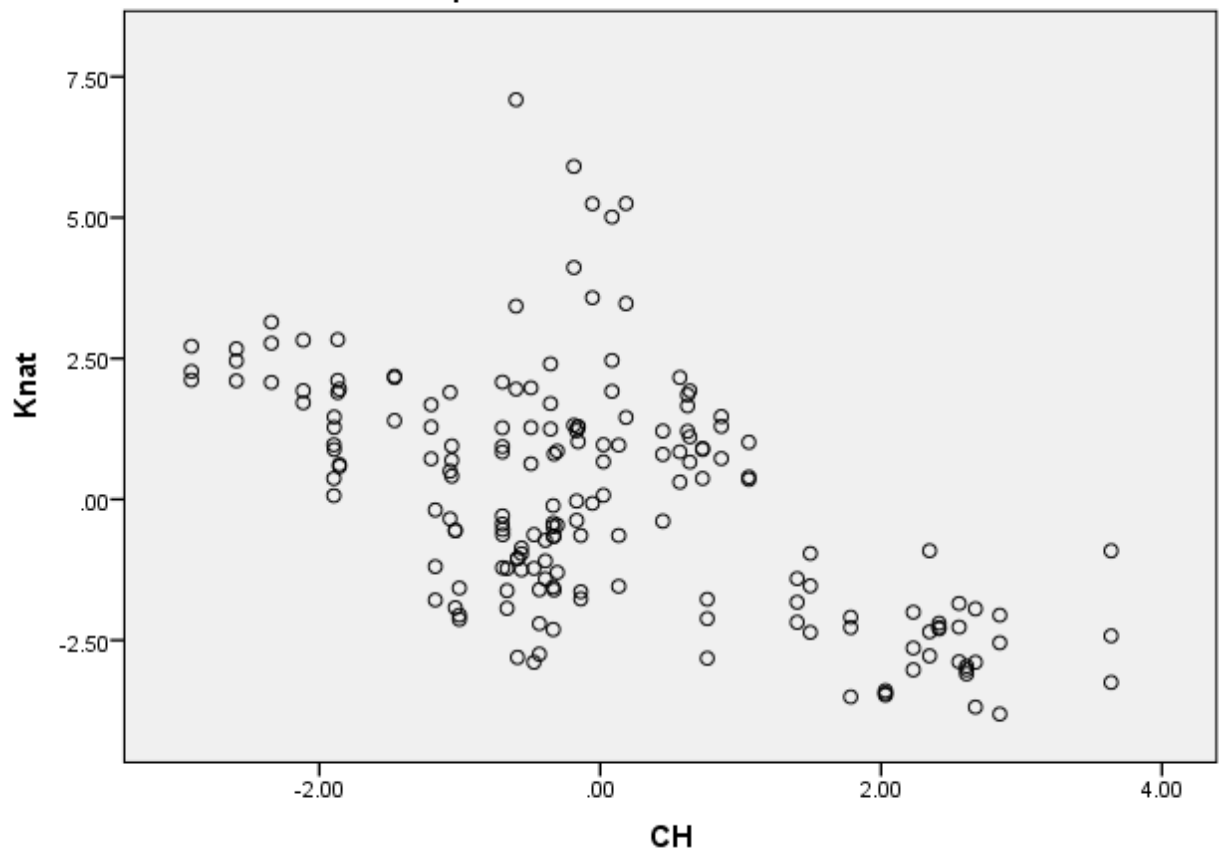
Dependent Variable: Knat



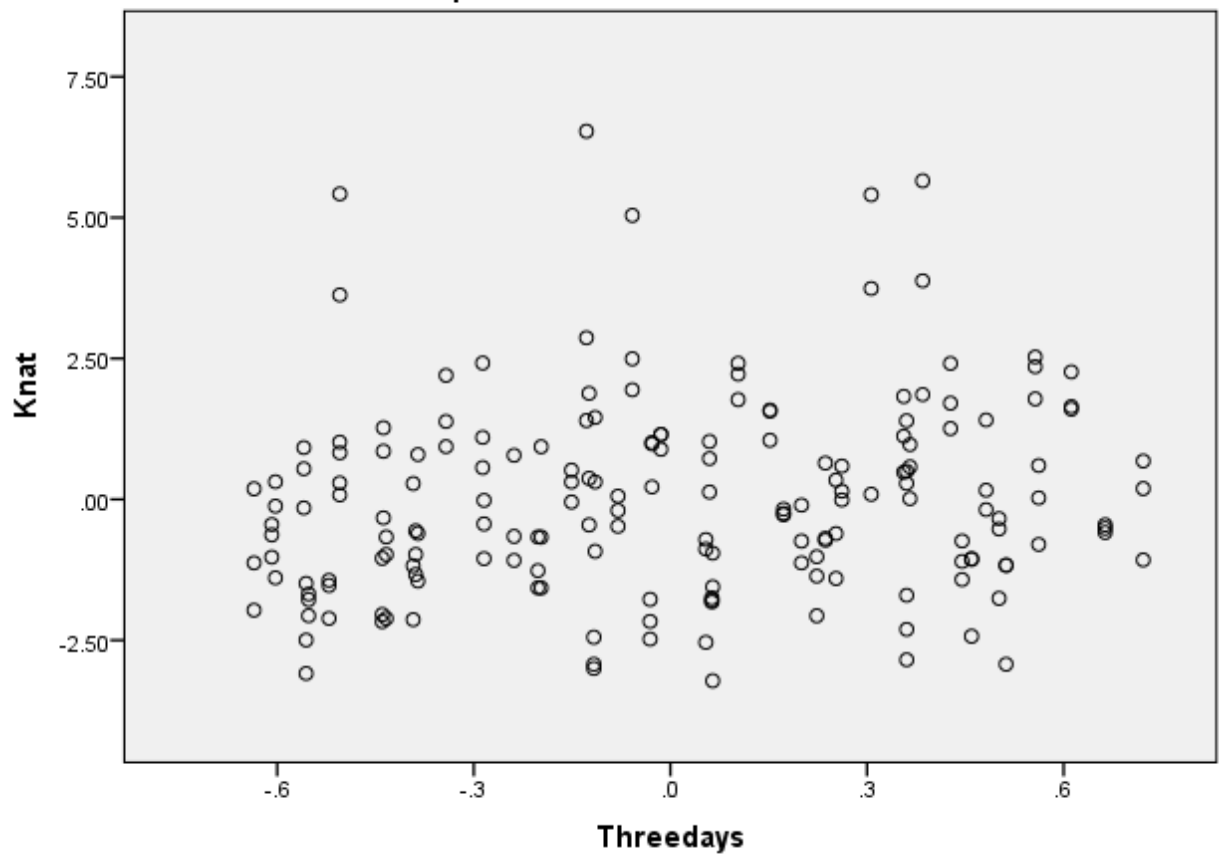
Partial Regression Plot
Dependent Variable: Knat



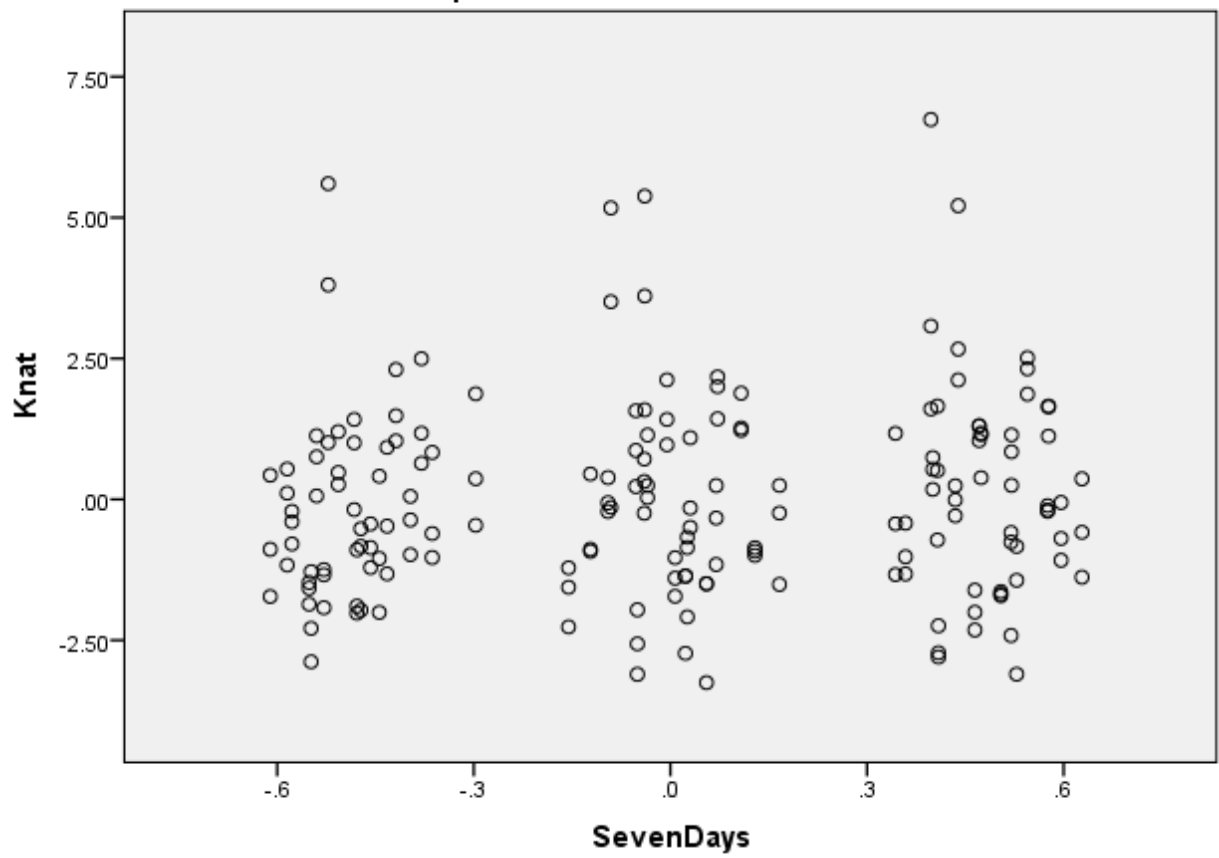
Partial Regression Plot
Dependent Variable: Knat



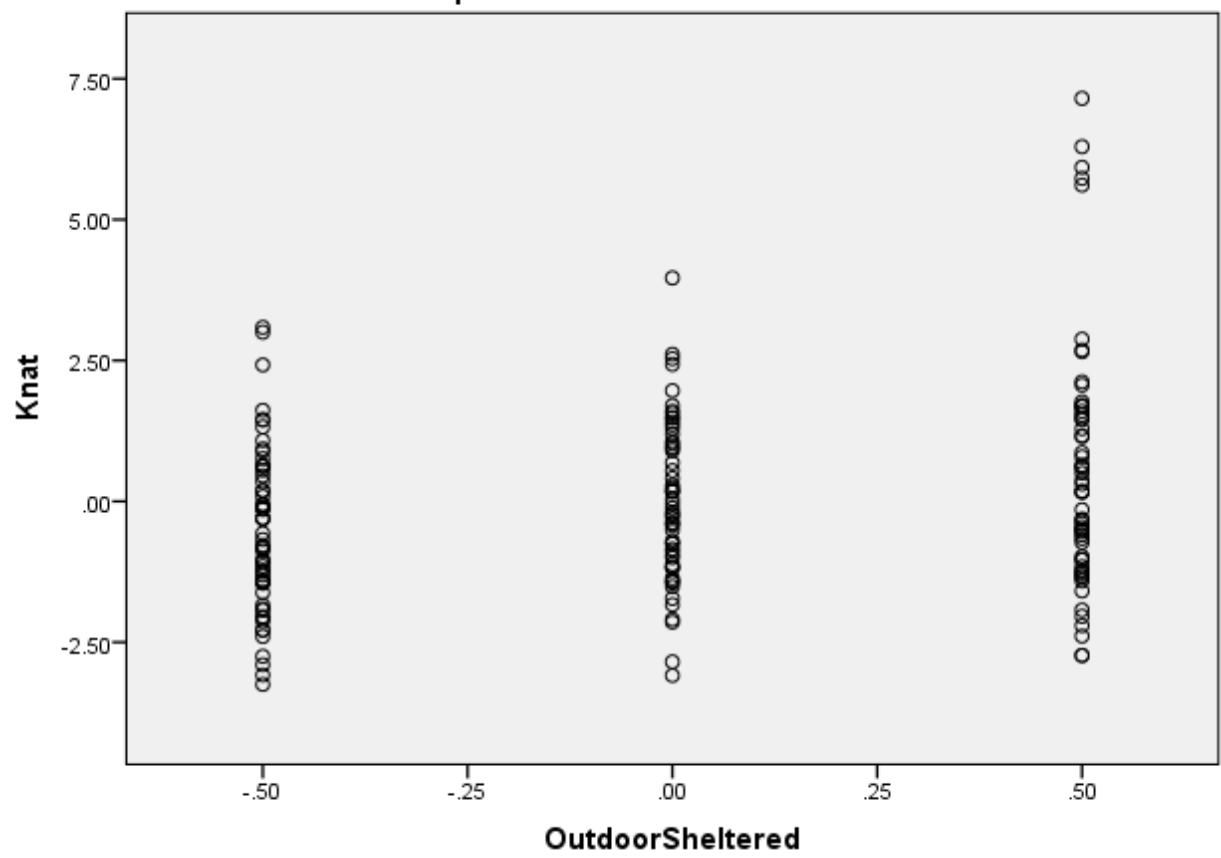
Partial Regression Plot
Dependent Variable: Knat

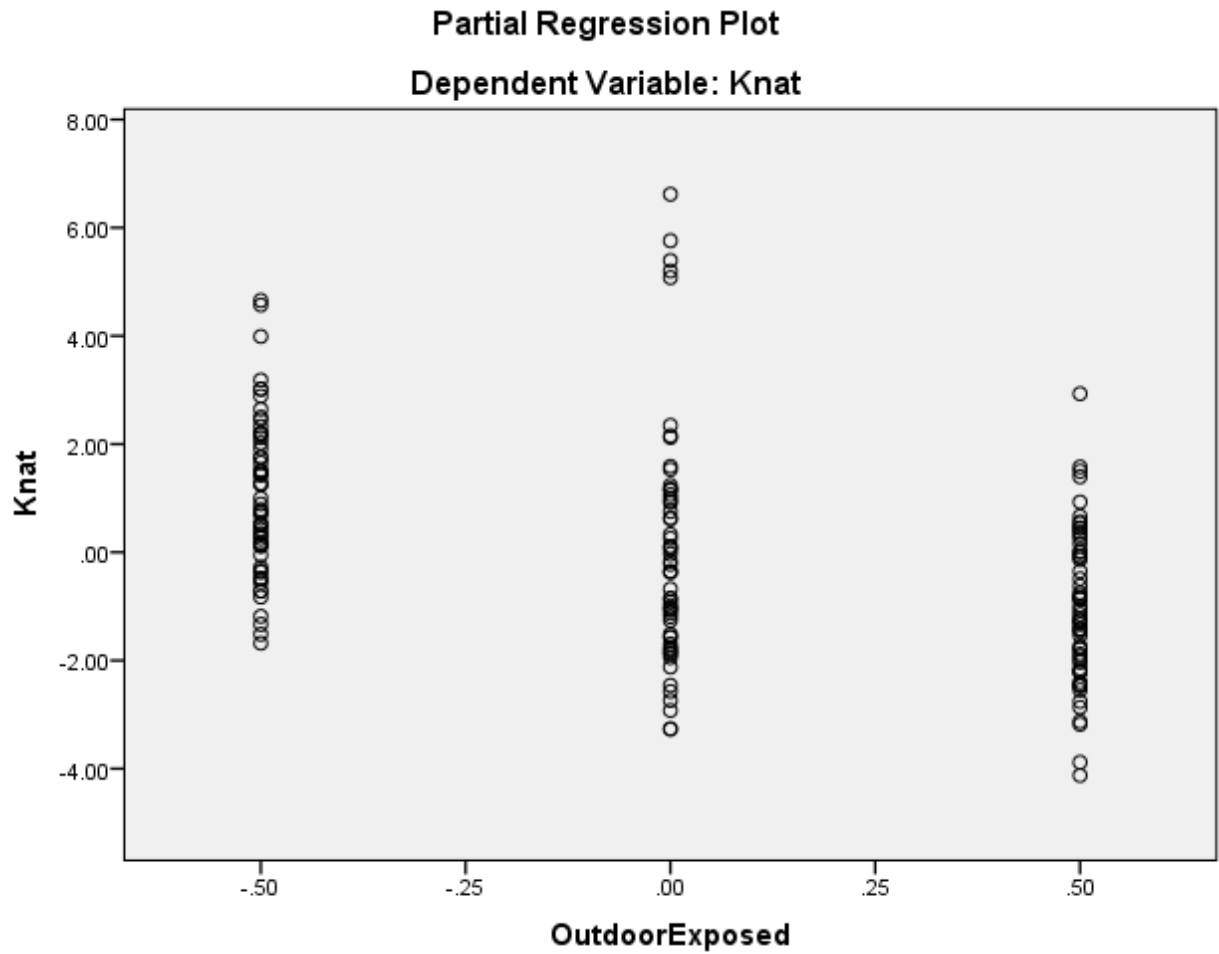


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER WS CH Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
WS	10.028	3.8857	180
CH	13.4373	2.02095	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	WS	CH	Threedays	SevenDays
Pearson Correlation	Knat	1.000	.747	-.744	.265	.020
	WS	.747	1.000	-.572	.286	-.049
	CH	-.744	-.572	1.000	-.289	-.023
	Threedays	.265	.286	-.289	1.000	-.500
	SevenDays	.020	-.049	-.023	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.396
	WS	.000	.	.000	.000	.257
	CH	.000	.000	.	.000	.382
	Threedays	.000	.000	.000	.	.000
	SevenDays	.396	.257	.382	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	WS	180	180	180	180	180
	CH	180	180	180	180	180
	Threedays	180	180	180	180	180
	SevenDays	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	WS	.000	.000
	CH	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	WS	.500	.500
	CH	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	WS	180	180
	CH	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, CH, OutdoorSheltered, WS, Threedays ^b	.	Enter

- a. Dependent Variable: Knat
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.911 ^a	.830	.824	1.56495	1.505

- a. Predictors: (Constant), OutdoorExposed, SevenDays, CH, OutdoorSheltered, WS, Threedays
b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2071.625	6	345.271	140.981	.000 ^b
	Residual	423.687	173	2.449		
	Total	2495.312	179			

- a. Dependent Variable: Knat
b. Predictors: (Constant), OutdoorExposed, SevenDays, CH, OutdoorSheltered, WS, Threedays

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	13.448	1.267		10.617	.000
	WS	.460	.037	.479	12.387	.000
	CH	-.859	.072	-.465	-11.855	.000
	Threedays	.111	.307	.014	.360	.719
	SevenDays	.314	.292	.040	1.077	.283
	OutdoorSheltered	1.066	.286	.135	3.732	.000
	OutdoorExposed	-2.069	.286	-.262	-7.241	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	10.948	15.949			
	WS	.387	.533	.747	.686	.388
	CH	-1.002	-.716	-.744	-.670	-.371
	Threedays	-.496	.717	.265	.027	.011
	SevenDays	-.262	.890	.020	.082	.034
	OutdoorSheltered	.502	1.630	.266	.273	.117
	OutdoorExposed	-2.633	-1.505	-.329	-.482	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	WS	.657	1.522
	CH	.638	1.569
	Threedays	.648	1.543
	SevenDays	.720	1.390
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	WS	CH	Threedays
1	1	4.320	1.000	.00	.00	.00	.01
	2	1.005	2.073	.00	.00	.00	.21
	3	1.000	2.079	.00	.00	.00	.00
	4	.340	3.565	.00	.00	.00	.28
	5	.223	4.400	.00	.03	.01	.35
	6	.106	6.385	.00	.53	.03	.10
	7	.005	28.670	.99	.43	.95	.06

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions

		SevenDays	OutdoorSheltered	OutdoorExposed
1	1	.01	.01	.01
	2	.24	.00	.00
	3	.00	.25	.25
	4	.34	.38	.38
	5	.35	.34	.34
	6	.01	.02	.02
	7	.05	.01	.01

a. Dependent Variable: Knat

Residuals Statistics^a

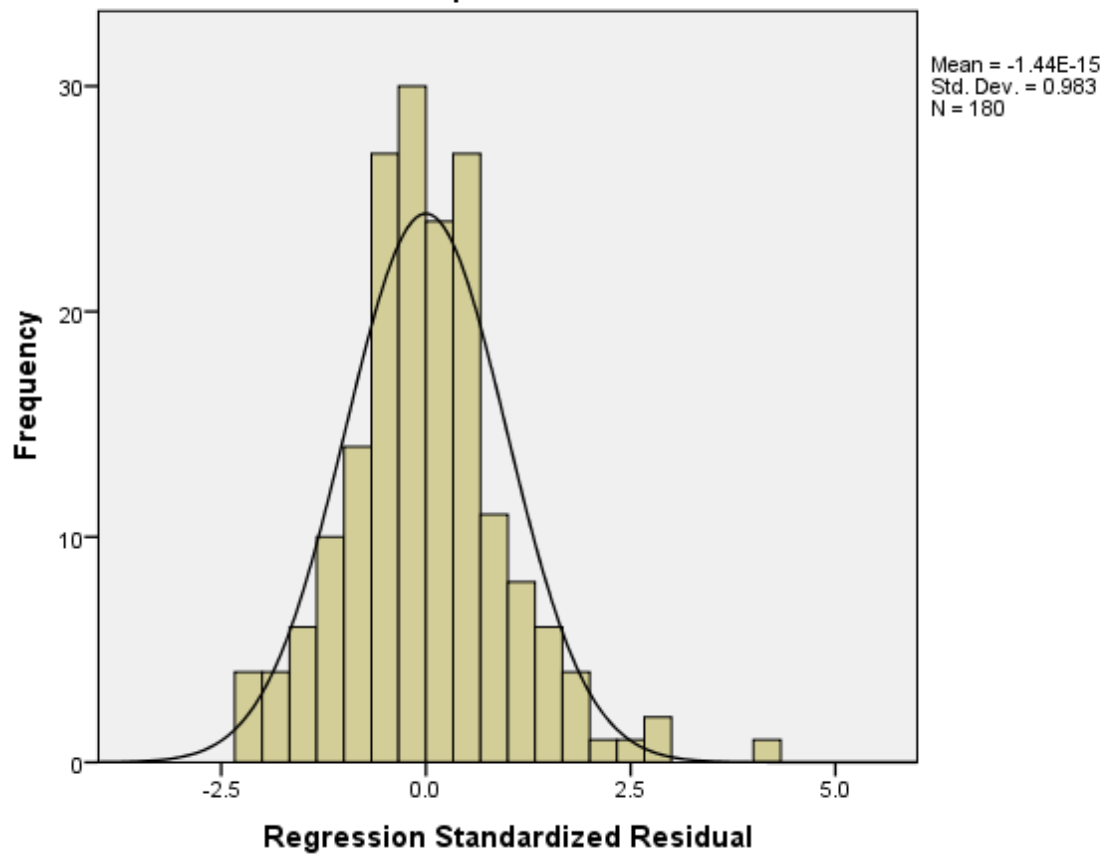
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-1.5887	15.8500	6.3209	3.40196	180
Residual	-3.54232	6.54630	.00000	1.53850	180
Std. Predicted Value	-2.325	2.801	.000	1.000	180
Std. Residual	-2.264	4.183	.000	.983	180

a. Dependent Variable: Knat

Charts

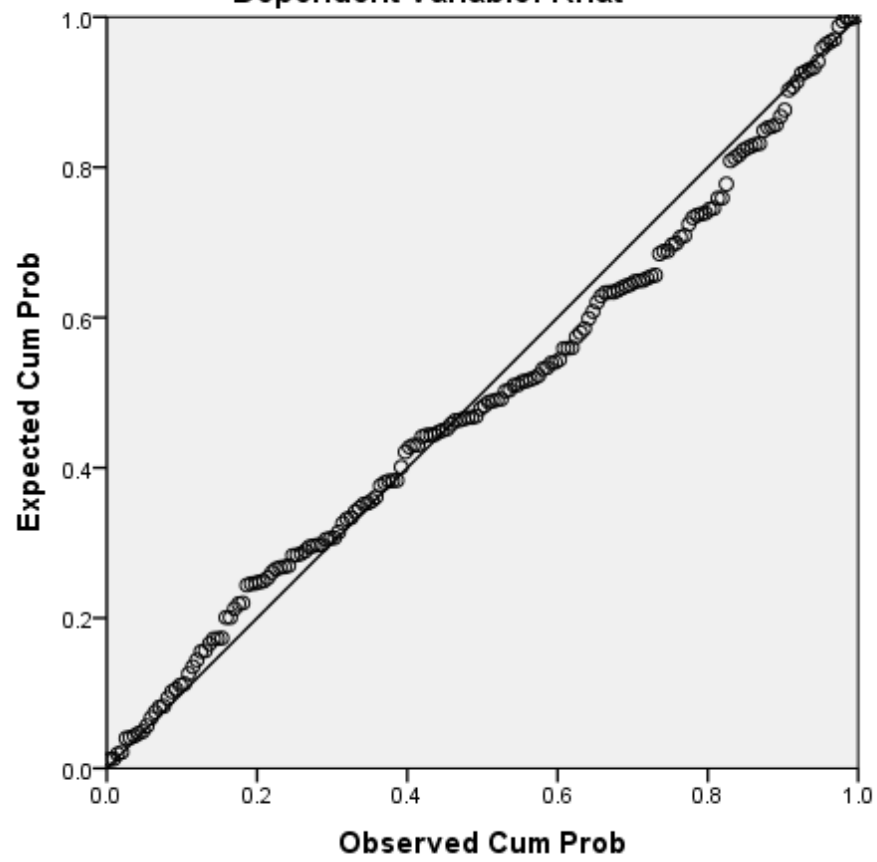
Histogram

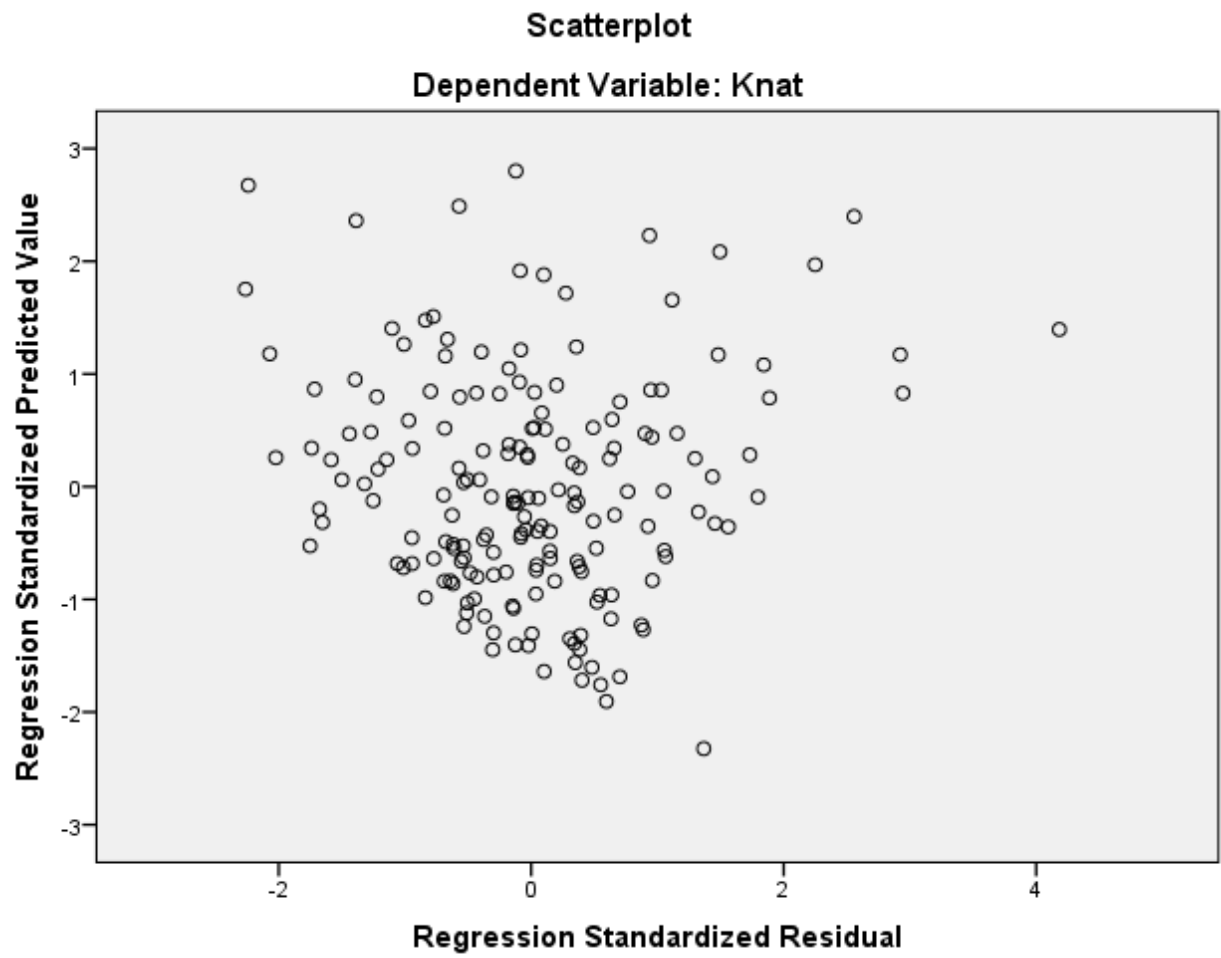
Dependent Variable: Knat



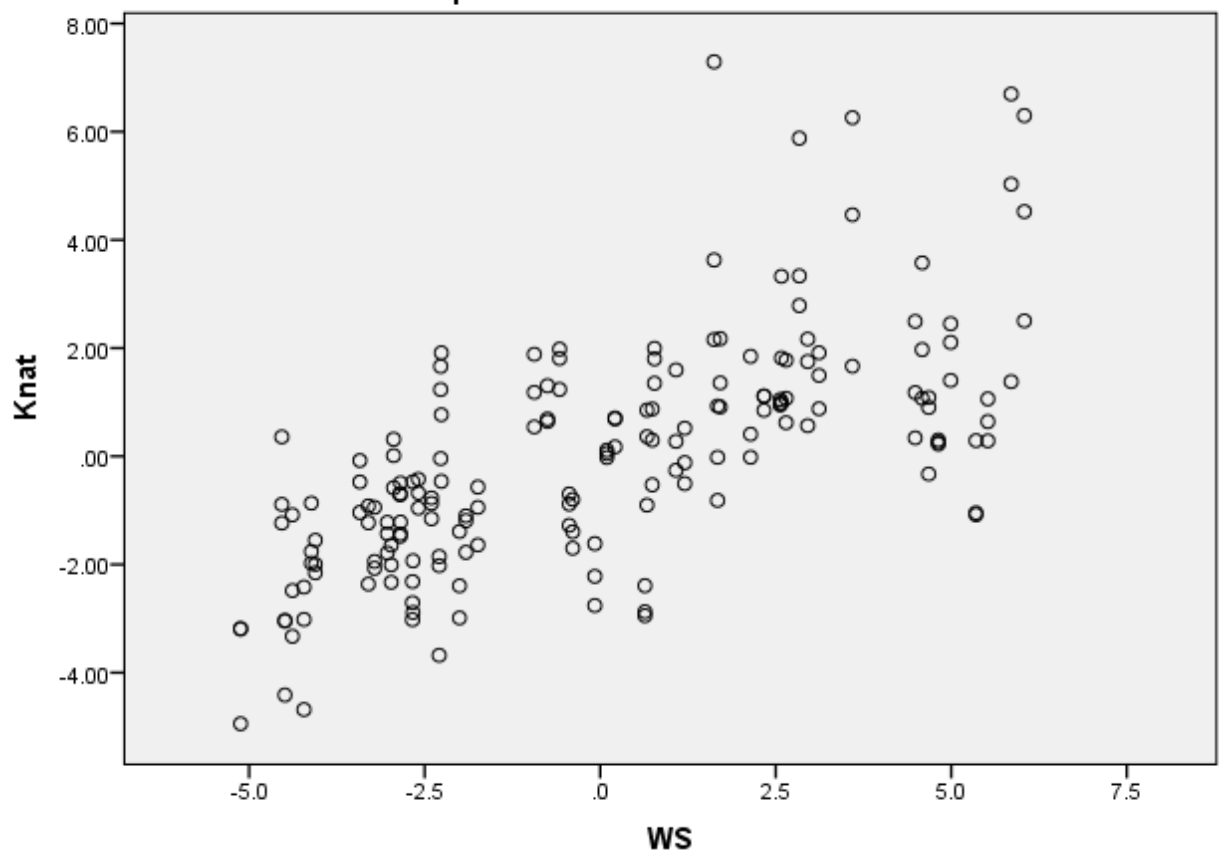
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

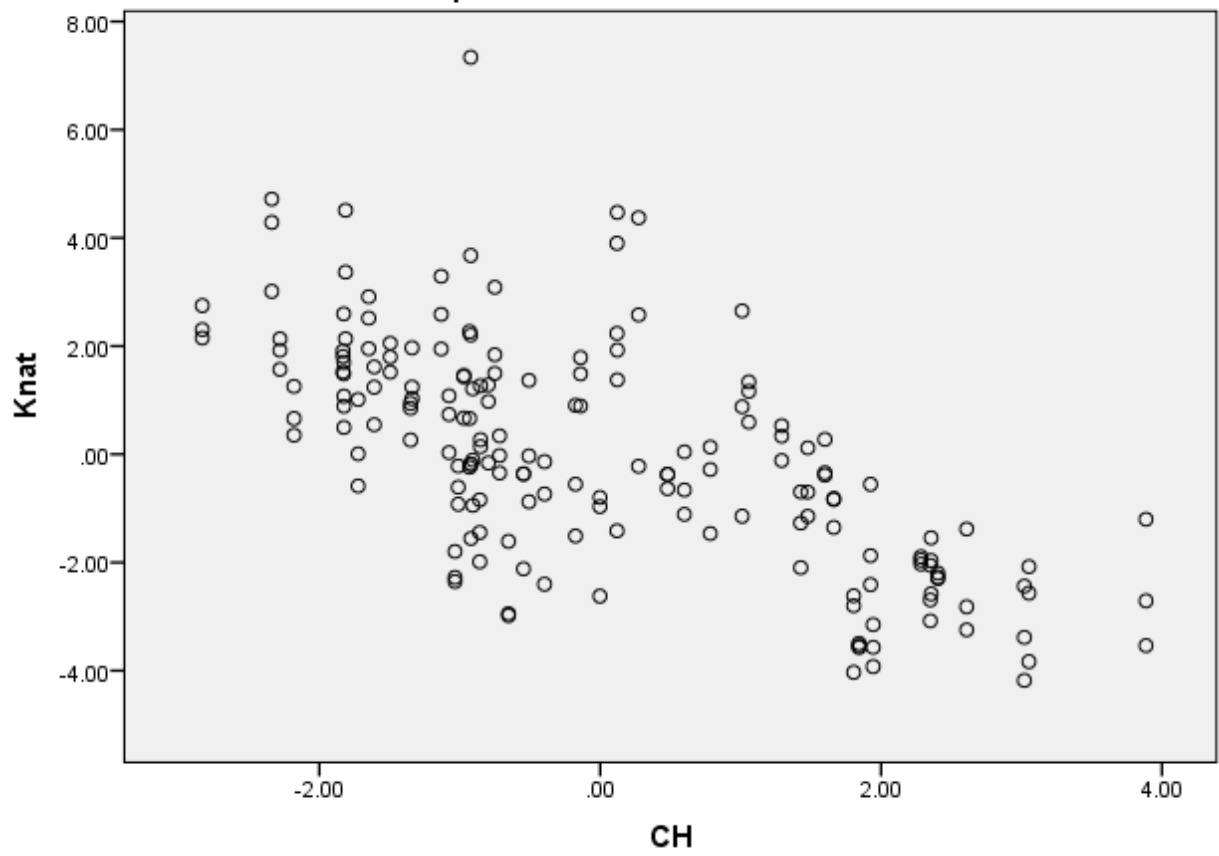




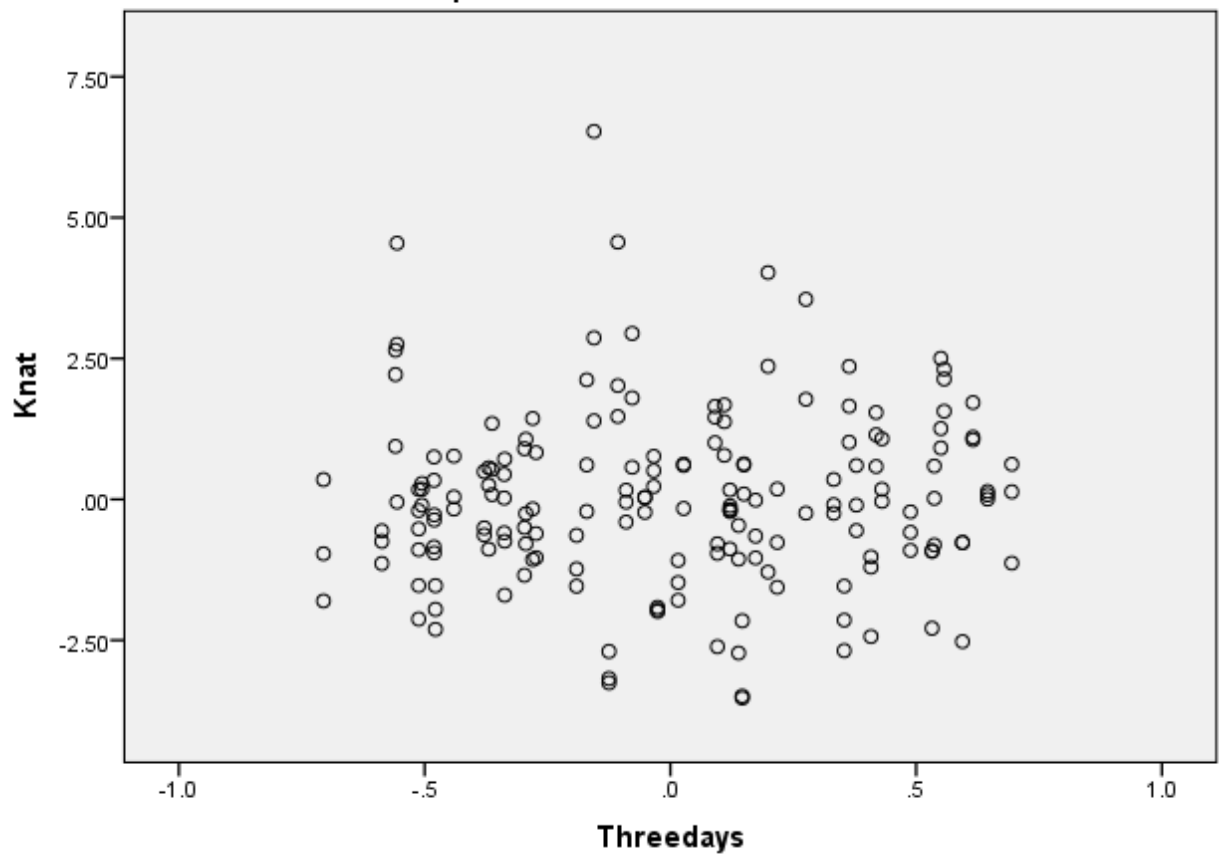
Partial Regression Plot
Dependent Variable: Knat



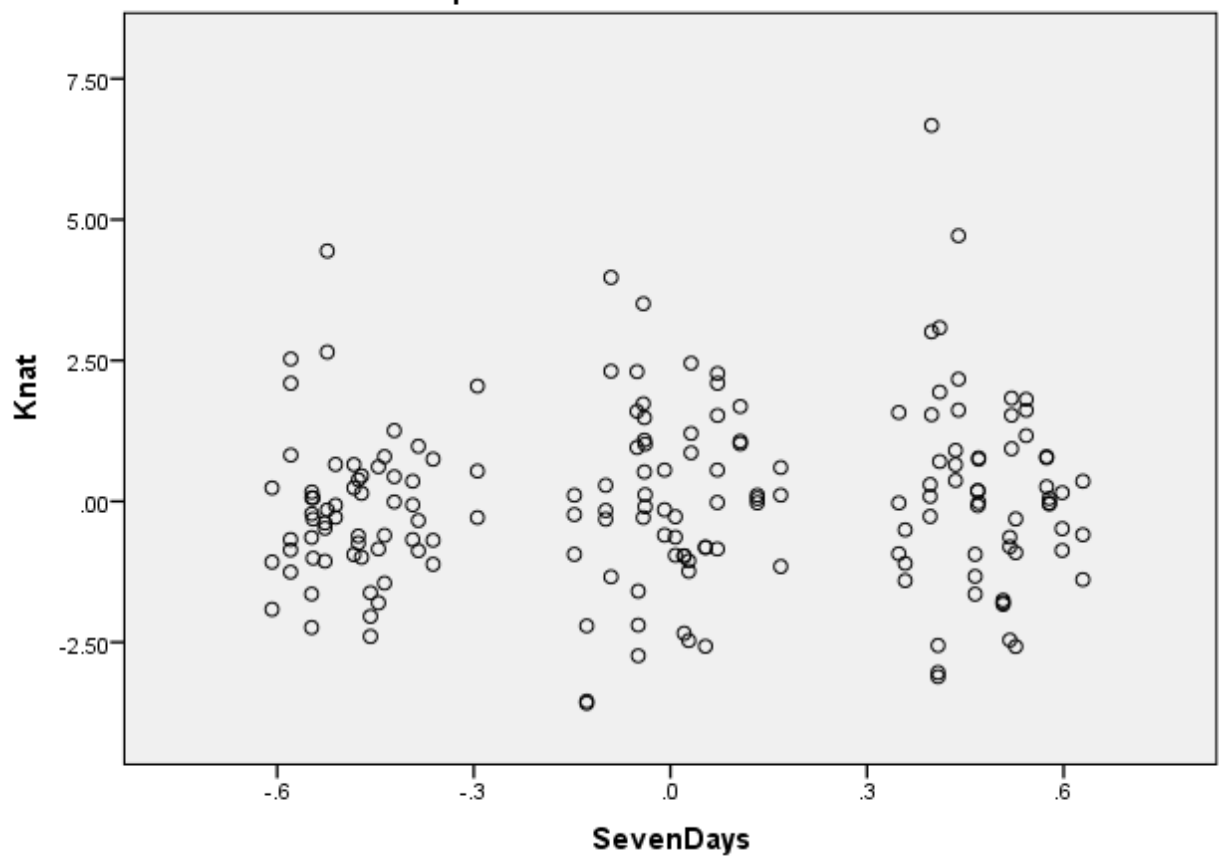
Partial Regression Plot
Dependent Variable: Knat



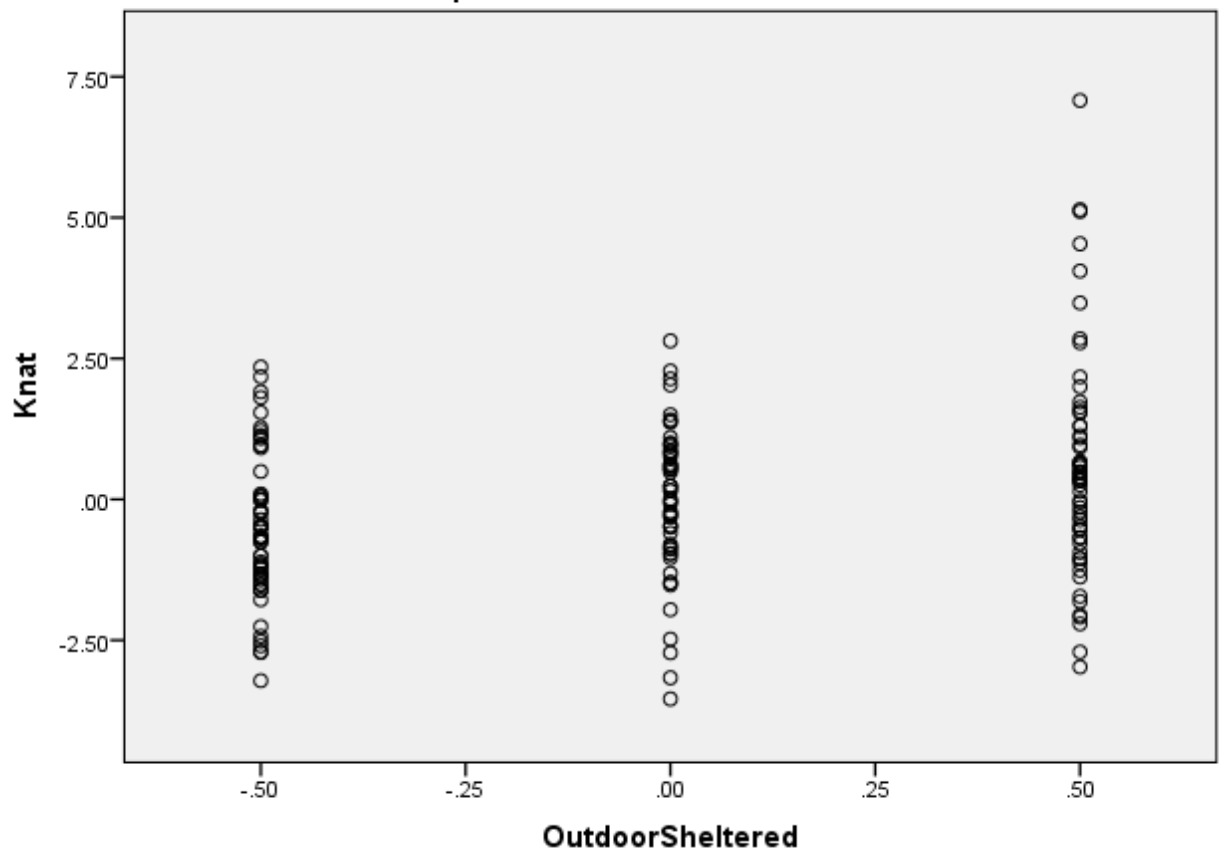
Partial Regression Plot
Dependent Variable: Knat

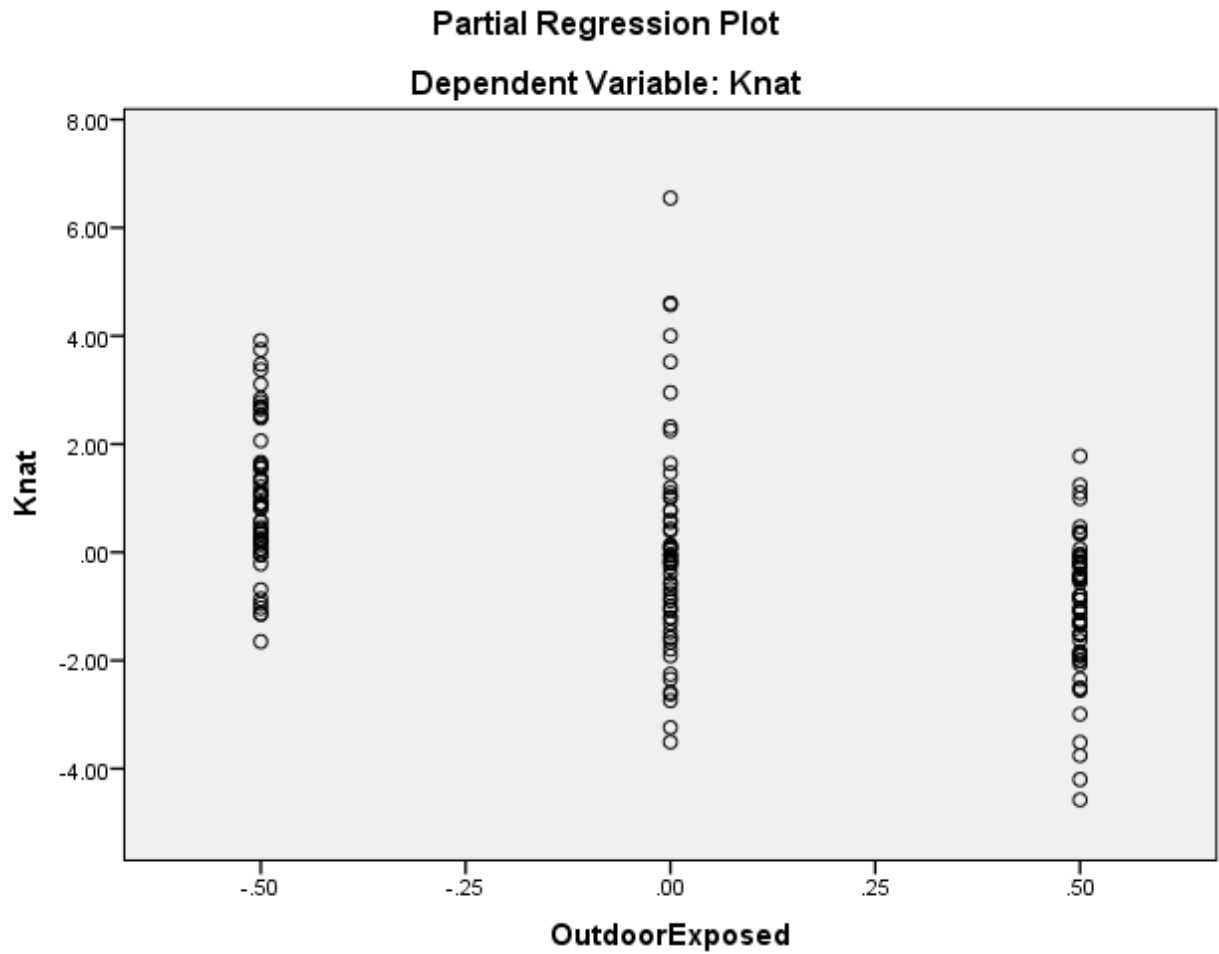


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER CH Kacc Threedays SevenDays OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
CH	13.4373	2.02095	180
Kacc	3.9405	2.68582	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	CH	Kacc	Threedays	SevenDays
Pearson Correlation	Knat	1.000	-.744	.857	.265	.020
	CH	-.744	1.000	-.828	-.289	-.023
	Kacc	.857	-.828	1.000	.177	.010
	Threedays	.265	-.289	.177	1.000	-.500
	SevenDays	.020	-.023	.010	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.000	.396
	CH	.000	.	.000	.000	.382
	Kacc	.000	.000	.	.009	.445
	Threedays	.000	.000	.009	.	.000
	SevenDays	.396	.382	.445	.000	.
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
N	Knat	180	180	180	180	180
	CH	180	180	180	180	180
	Kacc	180	180	180	180	180
	Threedays	180	180	180	180	180
	SevenDays	180	180	180	180	180

OutdoorSheltered	180	180	180	180	180
OutdoorExposed	180	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	CH	.000	.000
	Kacc	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	CH	.500	.500
	Kacc	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	CH	180	180
	Kacc	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays, CH ^b	.	Enter

- a. Dependent Variable: Knat
b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.936 ^a	.877	.873	1.33309	1.350

- a. Predictors: (Constant), OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays, CH
b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2187.869	6	364.645	205.188	.000 ^b
	Residual	307.443	173	1.777		
	Total	2495.312	179			

- a. Dependent Variable: Knat
b. Predictors: (Constant), OutdoorExposed, SevenDays, Kacc, OutdoorSheltered, Threedays, CH

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.461	1.525		1.614	.108
	CH	-.063	.093	-.034	-.678	.499
	Kacc	1.112	.067	.800	16.639	.000
	Threedays	1.255	.262	.159	4.786	.000
	SevenDays	.712	.249	.090	2.854	.005
	OutdoorSheltered	1.066	.243	.135	4.381	.000
	OutdoorExposed	-2.069	.243	-.262	-8.500	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	-.549	5.471			
	CH	-.245	.120	-.744	-.051	-.018
	Kacc	.980	1.244	.857	.784	.444
	Threedays	.737	1.772	.265	.342	.128
	SevenDays	.220	1.205	.020	.212	.076
	OutdoorSheltered	.586	1.547	.266	.316	.117
	OutdoorExposed	-2.549	-1.588	-.329	-.543	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	CH	.284	3.525
	Kacc	.308	3.244
	Threedays	.646	1.548
	SevenDays	.714	1.401
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	CH	Kacc	Threedays
1	1	4.156	1.000	.00	.00	.00	.01
	2	1.005	2.034	.00	.00	.00	.21
	3	1.000	2.039	.00	.00	.00	.00
	4	.362	3.387	.00	.00	.06	.12
	5	.266	3.953	.00	.00	.20	.38
	6	.209	4.463	.00	.01	.00	.15
	7	.002	40.817	1.00	.99	.73	.12

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions

		SevenDays	OutdoorSheltered	OutdoorExposed
1	1	.01	.01	.01
	2	.24	.00	.00
	3	.00	.25	.25
	4	.20	.33	.33
	5	.29	.01	.01
	6	.21	.40	.40
	7	.05	.00	.00

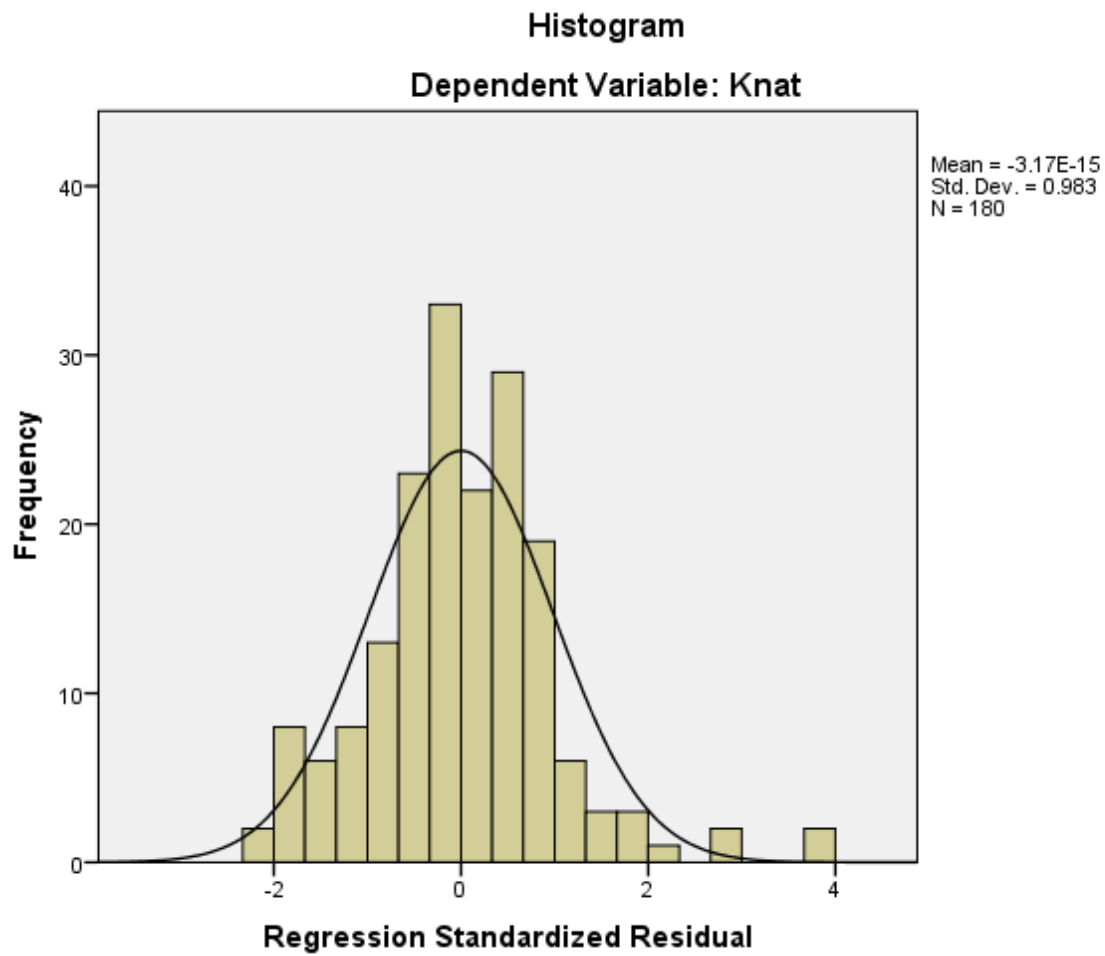
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.7825	17.0751	6.3209	3.49610	180
Residual	-2.99733	5.28620	.00000	1.31056	180
Std. Predicted Value	-2.032	3.076	.000	1.000	180
Std. Residual	-2.248	3.965	.000	.983	180

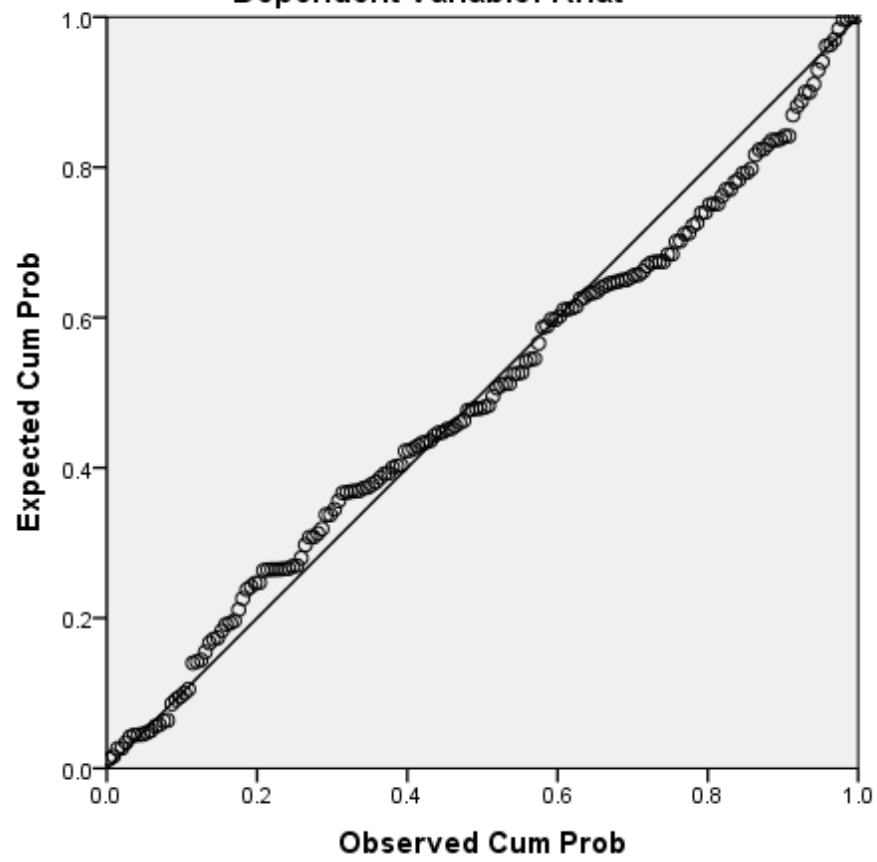
a. Dependent Variable: Knat

Charts



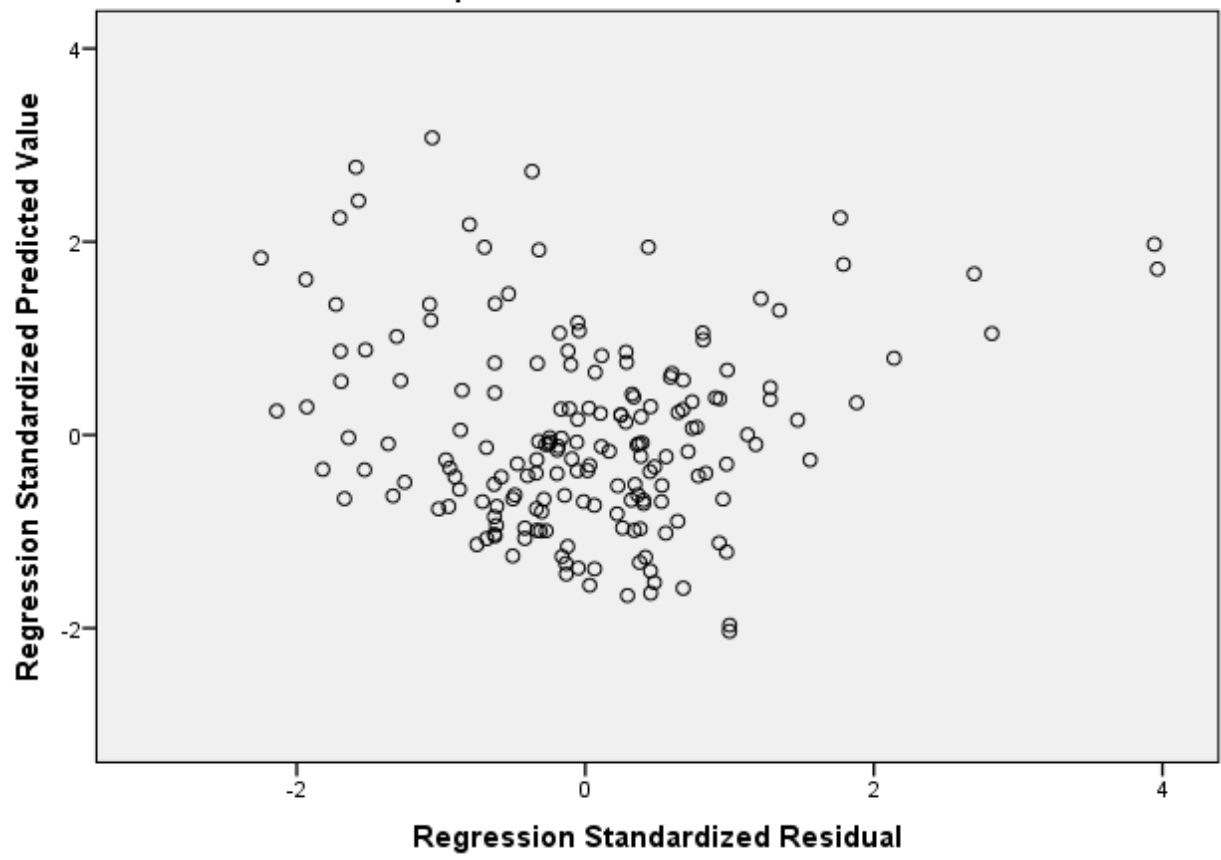
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

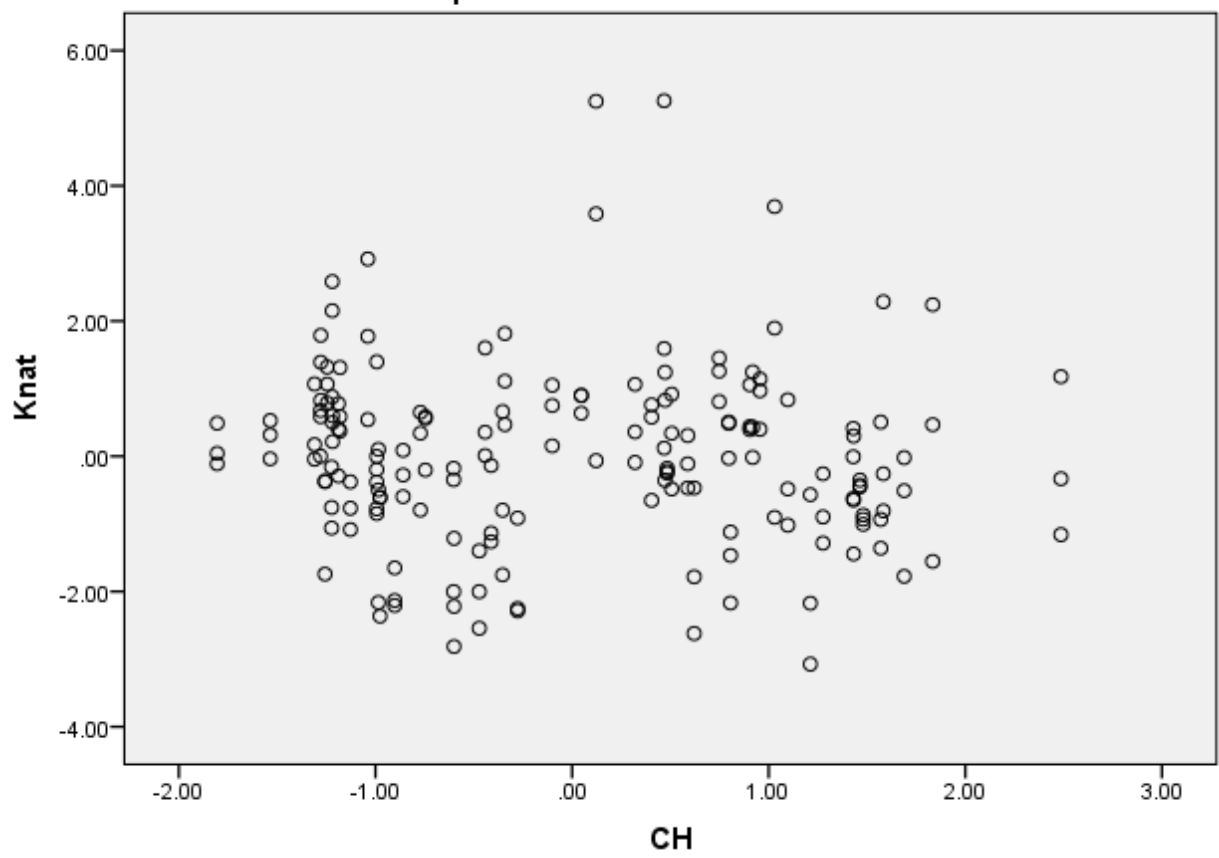


Scatterplot

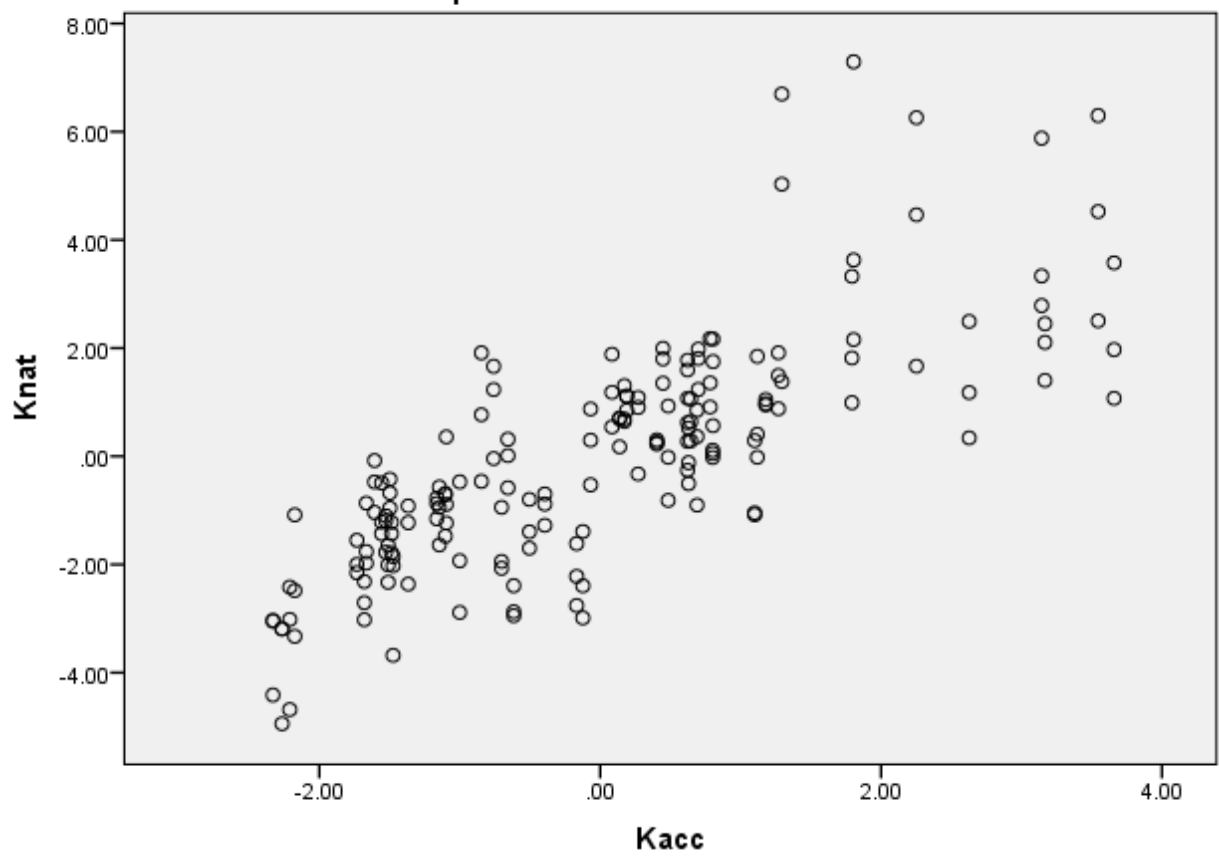
Dependent Variable: Knat



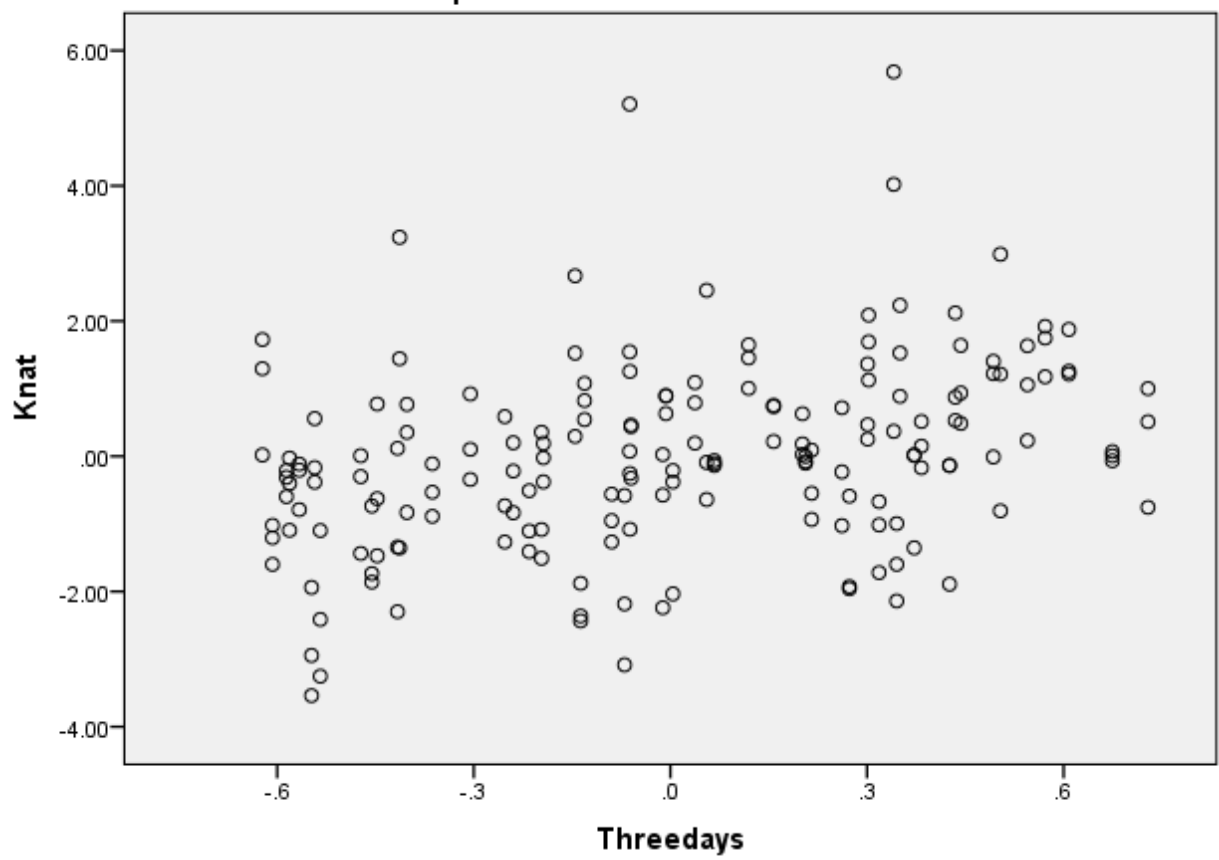
Partial Regression Plot
Dependent Variable: Knat



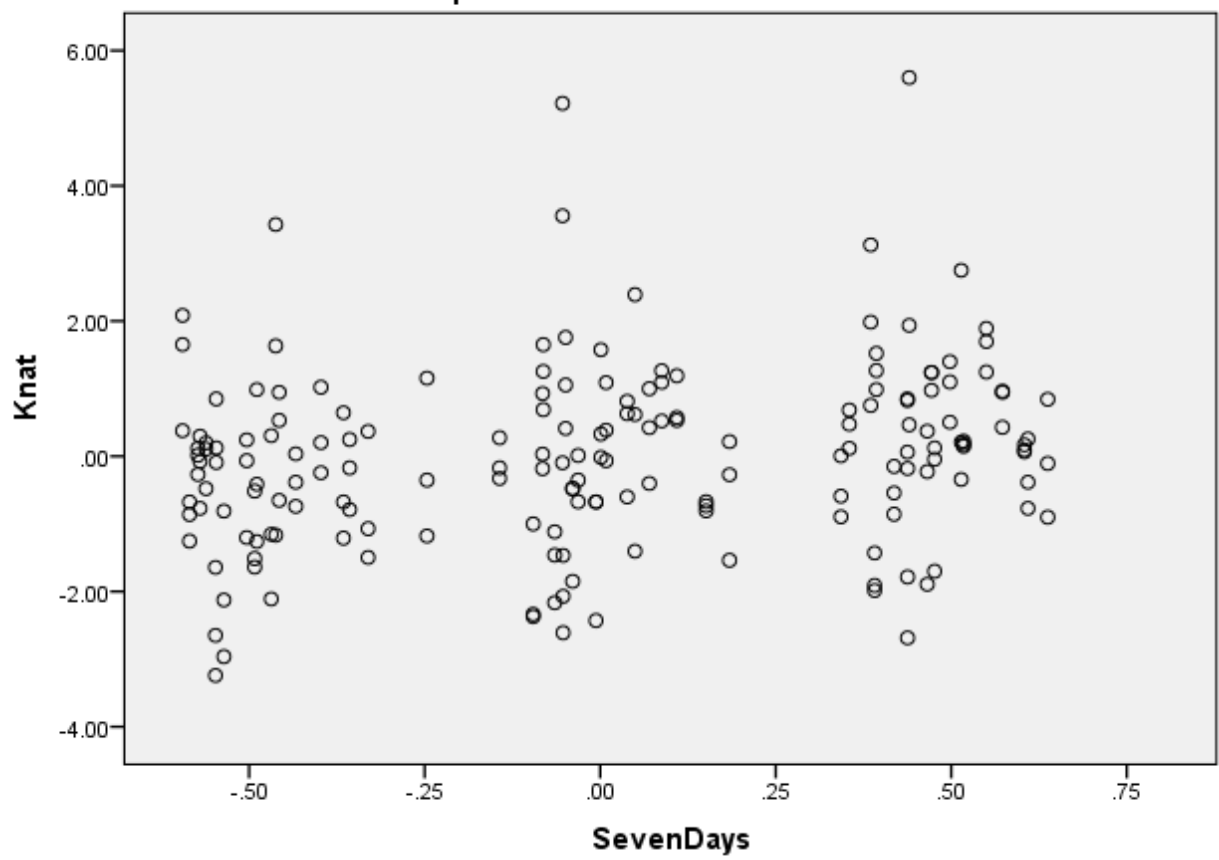
Partial Regression Plot
Dependent Variable: Knat



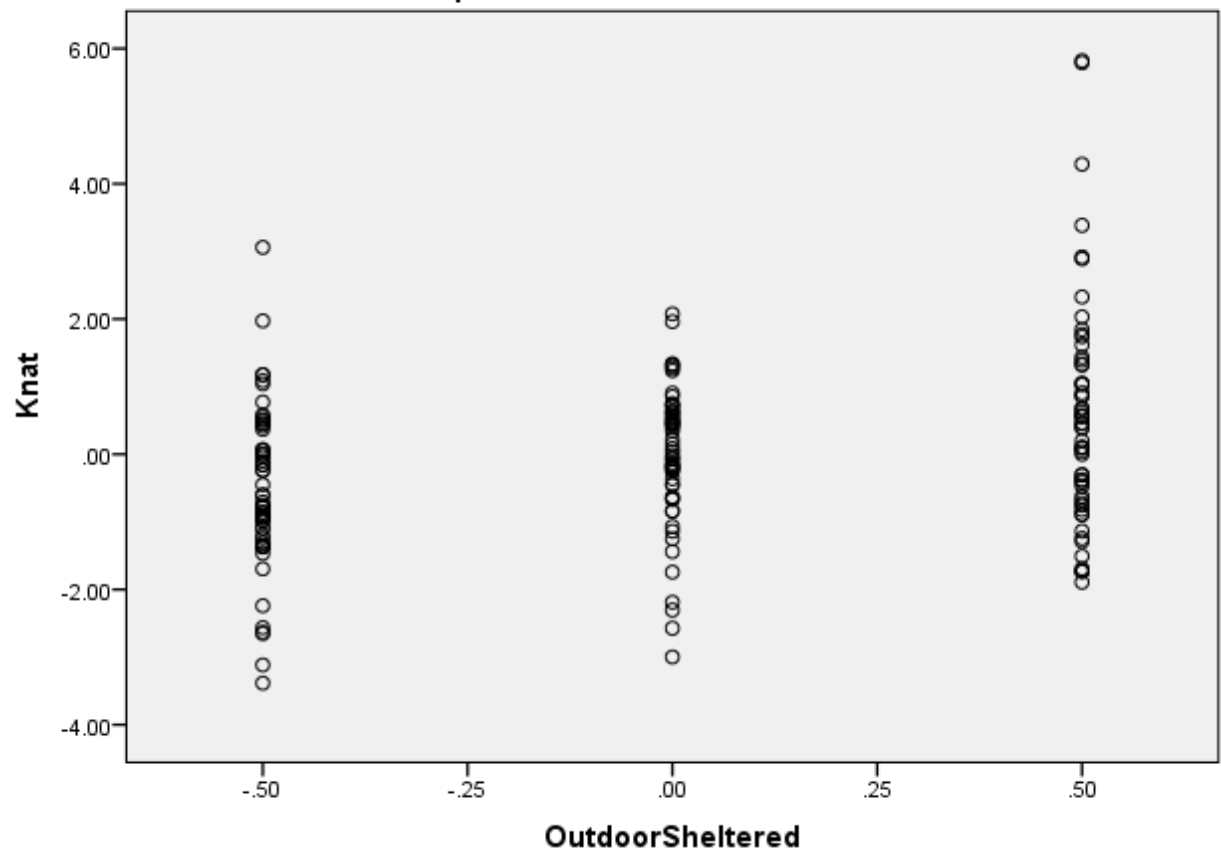
Partial Regression Plot
Dependent Variable: Knat

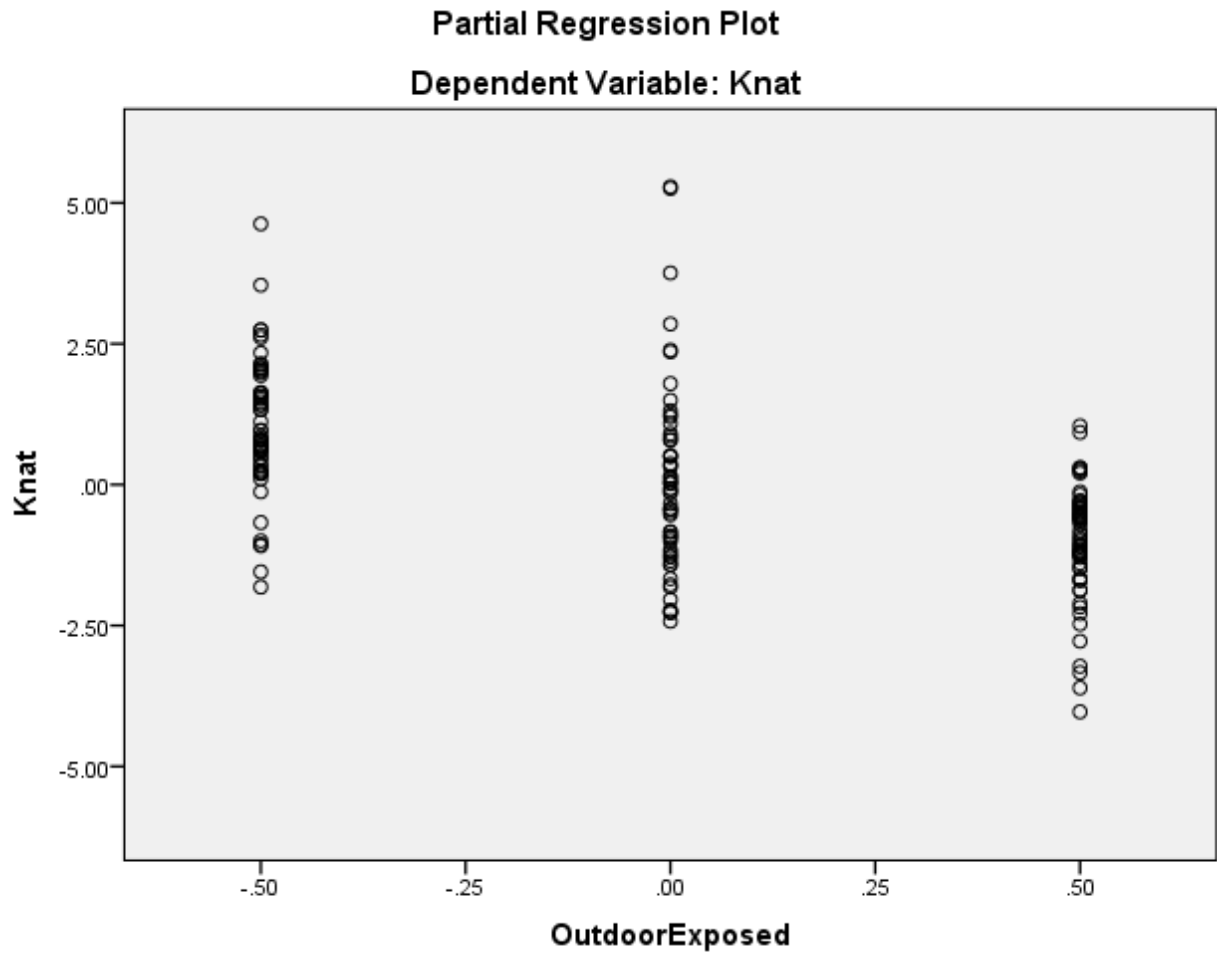


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





GET

FILE='H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.

REGRESSION

```

/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT Knat
/METHOD=ENTER fc Threedays SevenDays OutdoorSheltered OutdoorExposed
/PARTIALPLOT ALL
/SCATTERPLOT=(*ZPRED ,*ZRESID)
/RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	Threedays	SevenDays
Pearson Correlation	Knat	1.000	-.777	.265	.020
	fc	-.777	1.000	-.437	-.116
	Threedays	.265	-.437	1.000	-.500
	SevenDays	.020	-.116	-.500	1.000
	OutdoorSheltered	.266	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.000	.396
	fc	.000	.	.000	.060
	Threedays	.000	.000	.	.000
	SevenDays	.396	.060	.000	.
	OutdoorSheltered	.000	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500
N	Knat	180	180	180	180
	fc	180	180	180	180
	Threedays	180	180	180	180
	SevenDays	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorSheltered	OutdoorExposed
Pearson Correlation	Knat	.266	-.329
	fc	.000	.000
	Threedays	.000	.000
	SevenDays	.000	.000
	OutdoorSheltered	1.000	-.500
	OutdoorExposed	-.500	1.000
Sig. (1-tailed)	Knat	.000	.000
	fc	.500	.500
	Threedays	.500	.500
	SevenDays	.500	.500
	OutdoorSheltered	.	.000
	OutdoorExposed	.000	.
N	Knat	180	180
	fc	180	180
	Threedays	180	180
	SevenDays	180	180
	OutdoorSheltered	180	180
	OutdoorExposed	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, fc, OutdoorSheltered, Threedays ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.870 ^a	.757	.750	1.86687	1.364

a. Predictors: (Constant), OutdoorExposed, SevenDays, fc, OutdoorSheltered, Threedays

b. Dependent Variable: Knat

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	1888.886	5	377.777	108.394	.000 ^b
Residual	606.426	174	3.485		
Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, fc, OutdoorSheltered, Threedays

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	14.260	.560		25.451	.000
	fc	-.181	.009	-.899	-19.542	.000
	Threedays	-1.788	.417	-.226	-4.290	.000
	SevenDays	-1.561	.377	-.198	-4.137	.000
	OutdoorSheltered	1.066	.341	.135	3.128	.002
	OutdoorExposed	-2.069	.341	-.262	-6.070	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	13.154	15.366			
	fc	-.199	-.163	-.777	-.829	-.730
	Threedays	-2.610	-.965	.265	-.309	-.160
	SevenDays	-2.306	-.816	.020	-.299	-.155
	OutdoorSheltered	.393	1.739	.266	.231	.117

	OutdoorExposed	-2.742	-1.396	-.329	-.418	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	.660	1.515
	Threedays	.502	1.993
	SevenDays	.612	1.635
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	fc	Threedays	SevenDays
1	1	3.256	1.000	.01	.01	.01	.01
	2	1.007	1.798	.00	.00	.18	.18
	3	1.000	1.805	.00	.00	.00	.00
	4	.423	2.773	.00	.11	.20	.38
	5	.272	3.459	.01	.09	.03	.01
	6	.041	8.938	.98	.79	.58	.42

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorSheltered	OutdoorExposed
1	1	.02	.02
	2	.00	.00
	3	.25	.25
	4	.01	.01
	5	.67	.67
	6	.05	.05

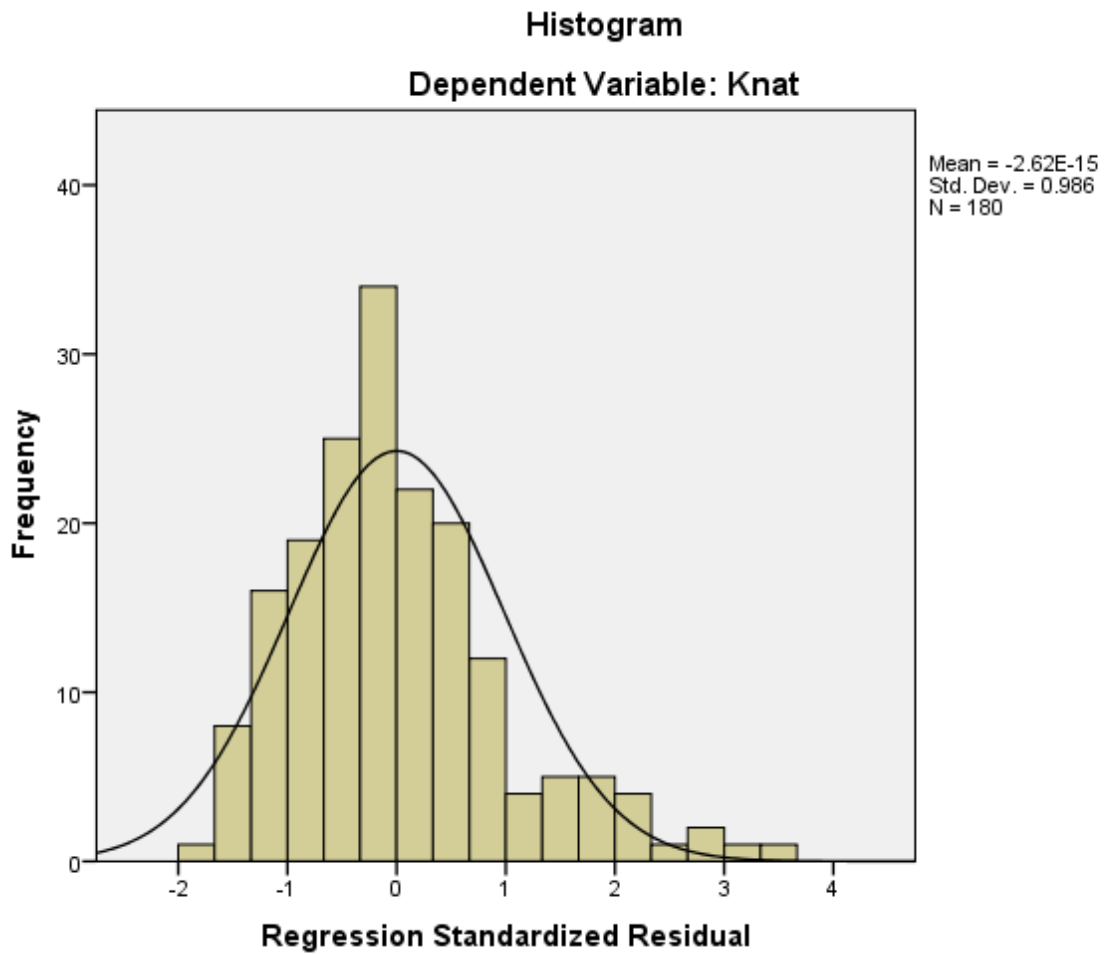
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-4.3345	11.9601	6.3209	3.24845	180
Residual	-3.15727	6.51993	.00000	1.84061	180
Std. Predicted Value	-3.280	1.736	.000	1.000	180
Std. Residual	-1.691	3.492	.000	.986	180

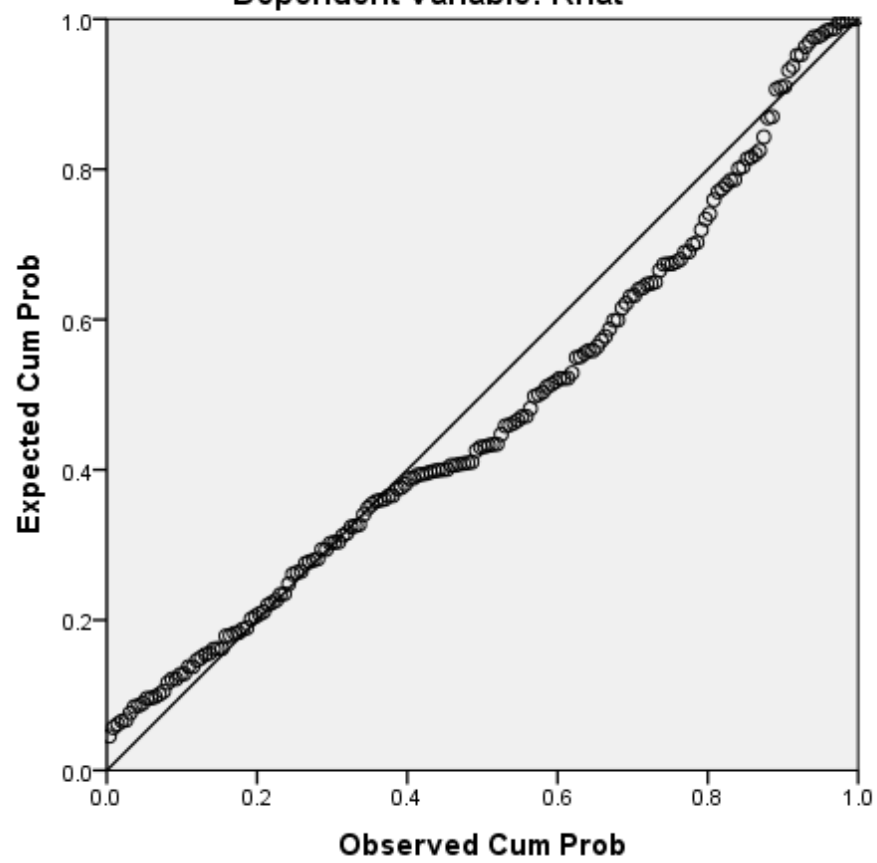
a. Dependent Variable: Knat

Charts



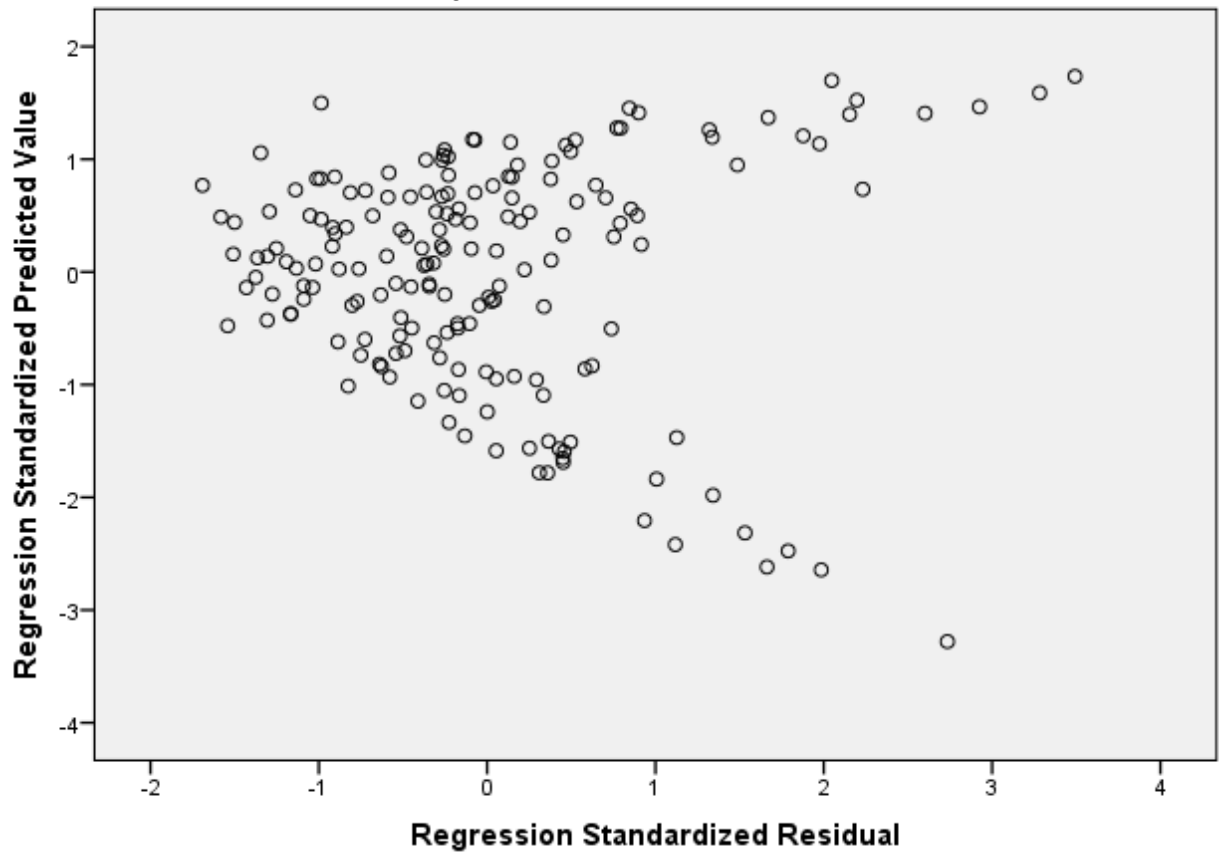
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

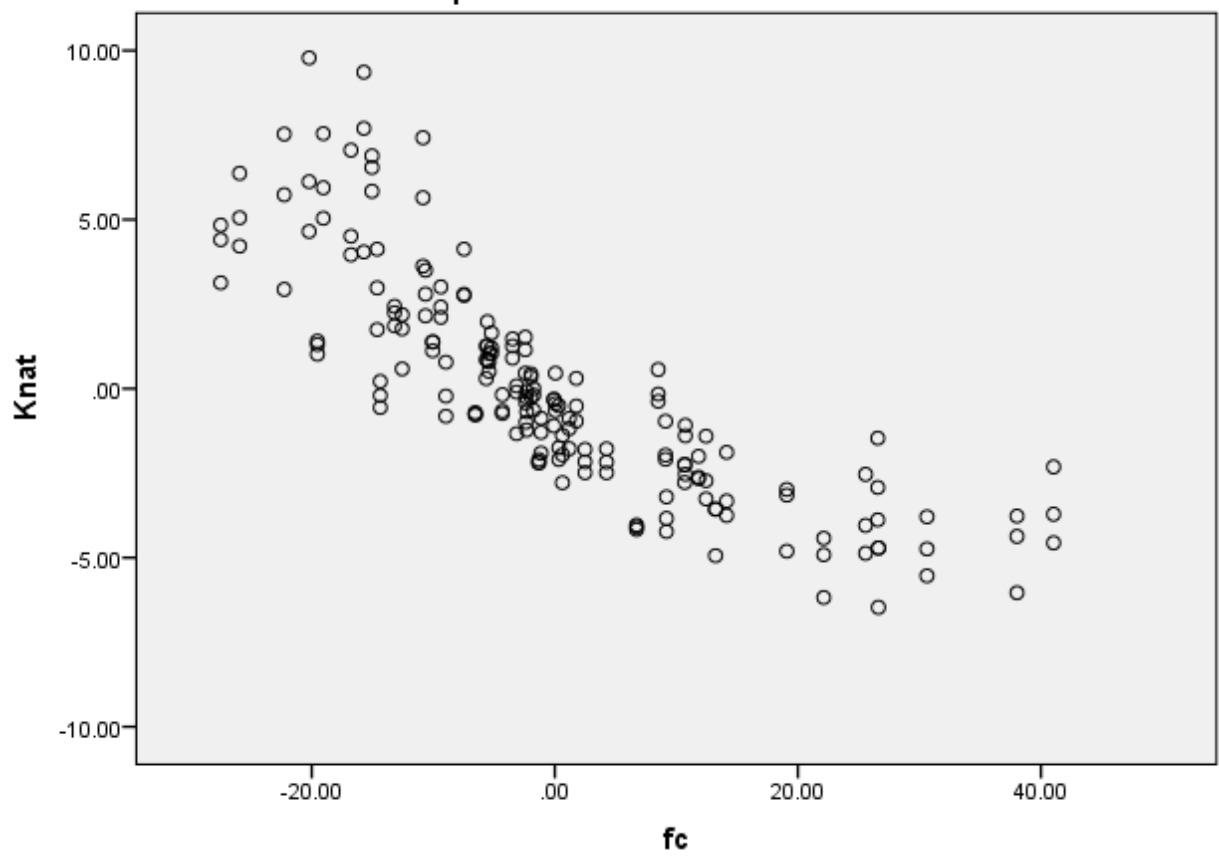


Scatterplot

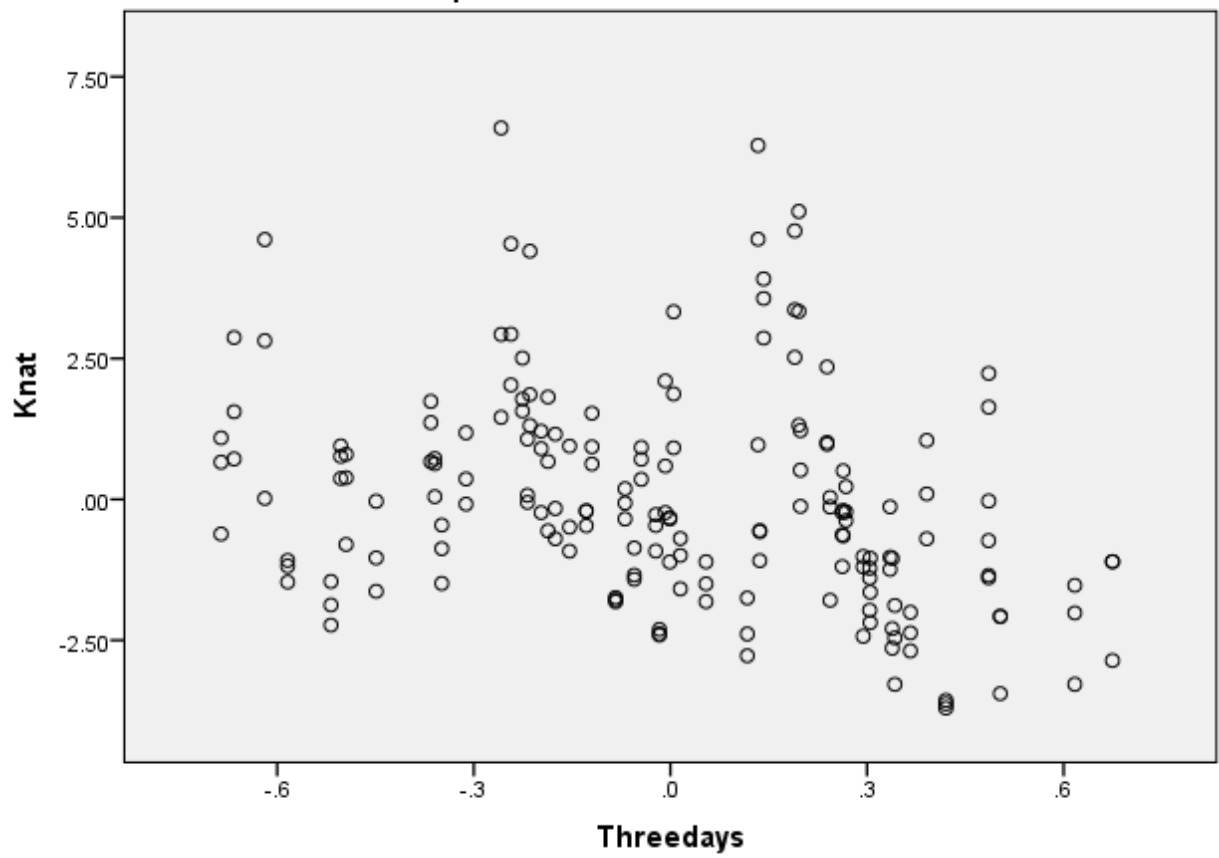
Dependent Variable: Knot



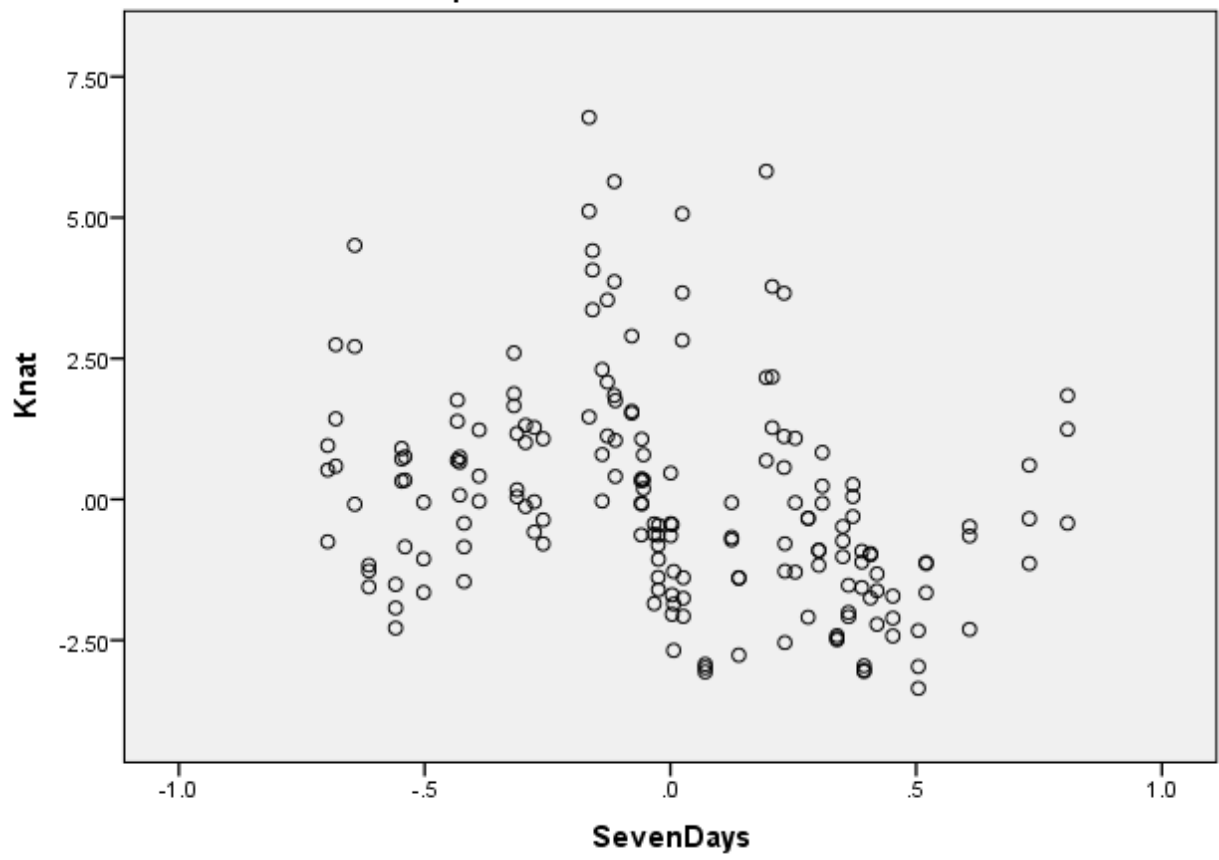
Partial Regression Plot
Dependent Variable: Knat



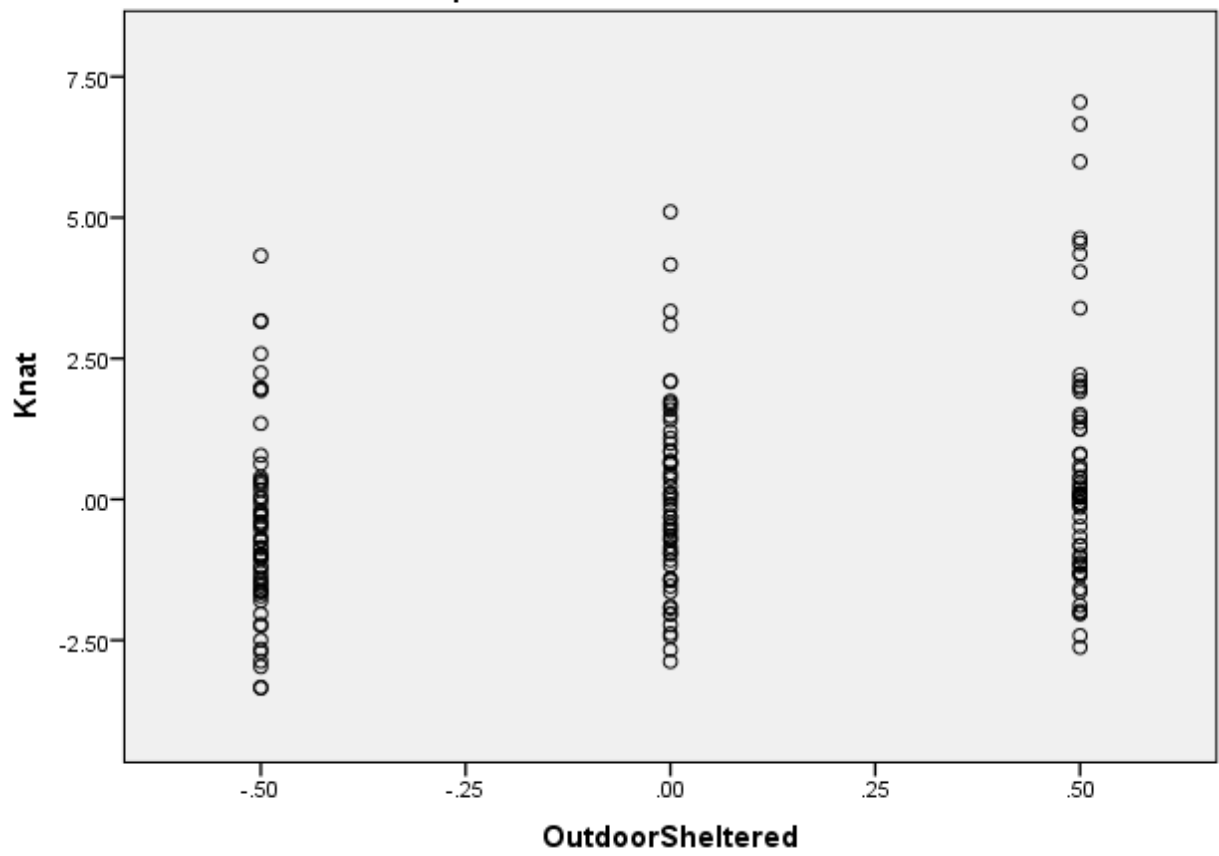
Partial Regression Plot
Dependent Variable: Knat

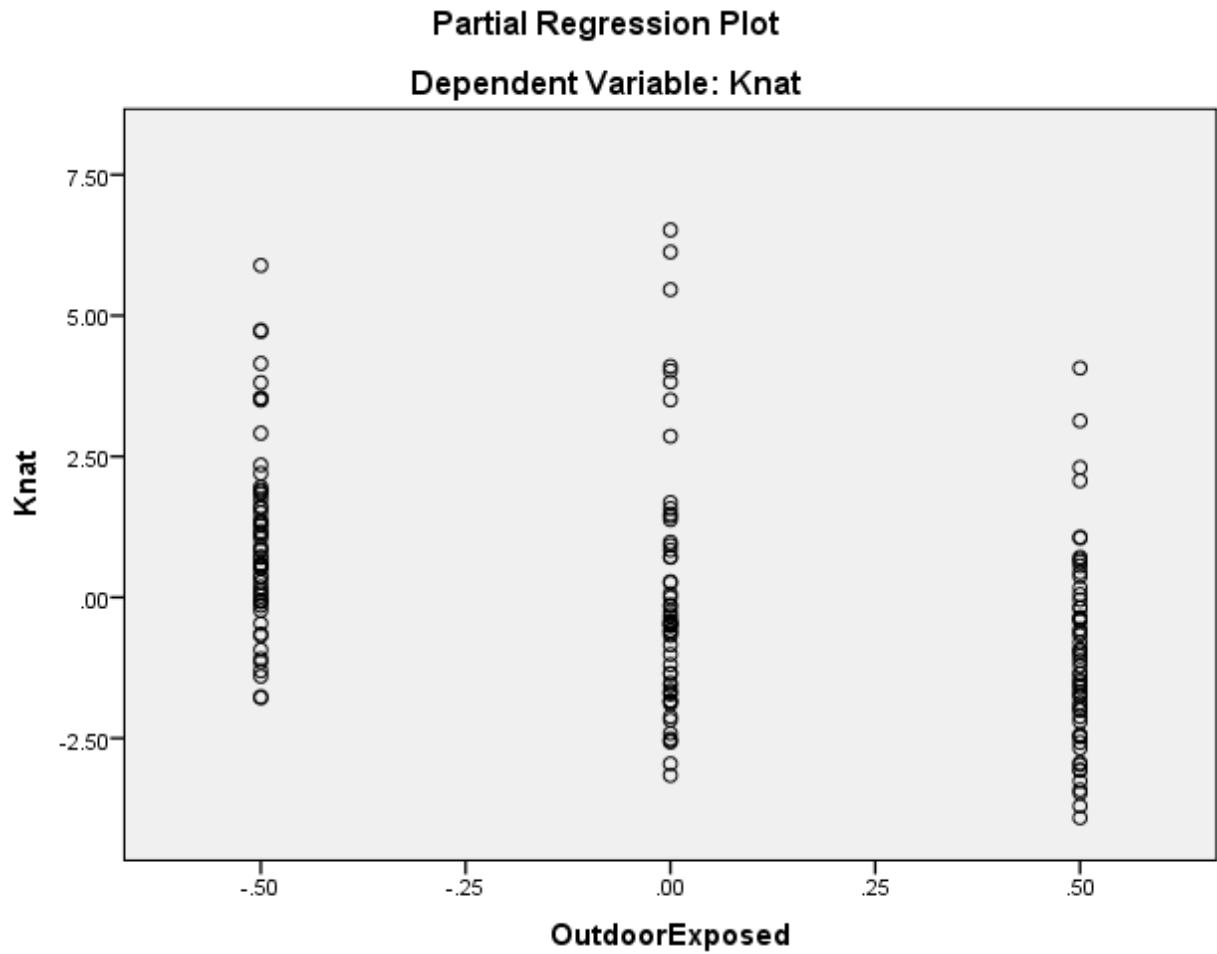


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knot





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER w_b CEMIFA CEMIGGBS CEMICSF CEMV Threedays SevenDays
OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
w_b	.5625	.12966	180
CEMIFA	.20	.401	180
CEMIGGBS	.20	.401	180
CEMICSF	.20	.401	180
CEMV	.20	.401	180
Threedays	.33	.473	180
SevenDays	.33	.473	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	w b	CEMIFA	CEMIGGBS	CEMICSF
Pearson Correlation	Knat	1.000	.591	.132	.251	-.349
	w_b	.591	1.000	.000	.000	.000
	CEMIFA	.132	.000	1.000	-.250	-.250
	CEMIGGBS	.251	.000	-.250	1.000	-.250
	CEMICSF	-.349	.000	-.250	-.250	1.000
	CEMV	.319	.000	-.250	-.250	-.250
	Threedays	.265	.000	.000	.000	.000
	SevenDays	.020	.000	.000	.000	.000
	OutdoorSheltered	.266	.000	.000	.000	.000
	OutdoorExposed	-.329	.000	.000	.000	.000
Sig. (1-tailed)	Knat	.	.000	.039	.000	.000
	w_b	.000	.	.500	.500	.500
	CEMIFA	.039	.500	.	.000	.000
	CEMIGGBS	.000	.500	.000	.	.000
	CEMICSF	.000	.500	.000	.000	.
	CEMV	.000	.500	.000	.000	.000

N	Threedays	.000	.500	.500	.500	.500
	SevenDays	.396	.500	.500	.500	.500
	OutdoorSheltered	.000	.500	.500	.500	.500
	OutdoorExposed	.000	.500	.500	.500	.500
	Knat	180	180	180	180	180
	w_b	180	180	180	180	180
	CEMIFA	180	180	180	180	180
	CEMIGGBS	180	180	180	180	180
	CEMICSF	180	180	180	180	180
	CEMV	180	180	180	180	180
	Threedays	180	180	180	180	180
	SevenDays	180	180	180	180	180
	OutdoorSheltered	180	180	180	180	180
	OutdoorExposed	180	180	180	180	180

Correlations

		CEMV	Threedays	SevenDays	OutdoorSheltered
Pearson Correlation	Knat	.319	.265	.020	.266
	w_b	.000	.000	.000	.000
	CEMIFA	-.250	.000	.000	.000
	CEMIGGBS	-.250	.000	.000	.000
	CEMICSF	-.250	.000	.000	.000
	CEMV	1.000	.000	.000	.000
	Threedays	.000	1.000	-.500	.000
	SevenDays	.000	-.500	1.000	.000
	OutdoorSheltered	.000	.000	.000	1.000
	OutdoorExposed	.000	.000	.000	-.500
Sig. (1-tailed)	Knat	.000	.000	.396	.000
	w_b	.500	.500	.500	.500
	CEMIFA	.000	.500	.500	.500
	CEMIGGBS	.000	.500	.500	.500
	CEMICSF	.000	.500	.500	.500
	CEMV	.	.500	.500	.500
	Threedays	.500	.	.000	.500
	SevenDays	.500	.000	.	.500
	OutdoorSheltered	.500	.500	.500	.
	OutdoorExposed	.500	.500	.500	.000
N	Knat	180	180	180	180

w_b	180	180	180	180
CEMIFA	180	180	180	180
CEMIGGBS	180	180	180	180
CEMICSF	180	180	180	180
CEMV	180	180	180	180
Threedays	180	180	180	180
SevenDays	180	180	180	180
OutdoorSheltered	180	180	180	180
OutdoorExposed	180	180	180	180

Correlations

		OutdoorExposed
Pearson Correlation	Knat	-.329
	w_b	.000
	CEMIFA	.000
	CEMIGGBS	.000
	CEMICSF	.000
	CEMV	.000
	Threedays	.000
	SevenDays	.000
	OutdoorSheltered	-.500
	OutdoorExposed	1.000
Sig. (1-tailed)	Knat	.000
	w_b	.500
	CEMIFA	.500
	CEMIGGBS	.500
	CEMICSF	.500
	CEMV	.500
	Threedays	.500
	SevenDays	.500
	OutdoorSheltered	.000
	OutdoorExposed	.
N	Knat	180
	w_b	180
	CEMIFA	180
	CEMIGGBS	180
	CEMICSF	180

CEMV	180
Threedays	180
SevenDays	180
OutdoorSheltered	180
OutdoorExposed	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, SevenDays, CEMV, w_b, CEMICSF, CEMIGGBS, Threedays, OutdoorSheltered, CEMIFA ^b		Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.956 ^a	.915	.910	1.11987	1.522

a. Predictors: (Constant), OutdoorExposed, SevenDays, CEMV, w_b, CEMICSF, CEMIGGBS, Threedays, OutdoorSheltered, CEMIFA

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2282.115	9	253.568	202.191	.000 ^b
	Residual	213.197	170	1.254		

Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, SevenDays, CEMV, w_b, CEMICSF, CEMIGGBS, Threedays, OutdoorSheltered, CEMIFA

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-7.033	.441		-15.944	.000
w_b	17.005	.646	.591	26.342	.000
CEMIFA	3.603	.264	.387	13.648	.000
CEMIGGBS	4.488	.264	.482	17.001	.000
CEMICSF	.020	.264	.002	.076	.940
CEMV	4.996	.264	.537	18.928	.000
Threedays	2.898	.204	.367	14.175	.000
SevenDays	1.606	.204	.203	7.853	.000
OutdoorSheltered	1.066	.204	.135	5.215	.000
OutdoorExposed	-2.069	.204	-.262	-10.119	.000

Coefficients^a

Model	95.0% Confidence Interval for B		Correlations		
	Lower Bound	Upper Bound	Zero-order	Partial	Part
1 (Constant)	-7.903	-6.162			
w_b	15.731	18.279	.591	.896	.591
CEMIFA	3.081	4.124	.132	.723	.306
CEMIGGBS	3.966	5.009	.251	.794	.381
CEMICSF	-.501	.541	-.349	.006	.002
CEMV	4.475	5.517	.319	.824	.424
Threedays	2.495	3.302	.265	.736	.318
SevenDays	1.202	2.009	.020	.516	.176
OutdoorSheltered	.663	1.470	.266	.371	.117
OutdoorExposed	-2.472	-1.665	-.329	-.613	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	w_b	1.000	1.000
	CEMIFA	.625	1.600
	CEMIGGBS	.625	1.600
	CEMICSF	.625	1.600
	CEMV	.625	1.600
	Threedays	.750	1.333
	SevenDays	.750	1.333
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	w_b	CEMIFA	CEMIGGBS
1	1	4.248	1.000	.00	.00	.01	.01
	2	1.000	2.061	.00	.00	.23	.03
	3	1.000	2.061	.00	.00	.14	.30
	4	1.000	2.061	.00	.00	.00	.04
	5	1.000	2.061	.00	.00	.00	.00
	6	1.000	2.061	.00	.00	.01	.01
	7	.333	3.570	.00	.00	.00	.00
	8	.265	4.004	.00	.01	.18	.18
	9	.132	5.683	.04	.14	.40	.40
	10	.023	13.708	.96	.85	.04	.04

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions				
		CEMICSF	CEMV	Threedays	SevenDays	OutdoorSheltered d
1	1	.01	.01	.01	.01	.01
	2	.06	.17	.00	.00	.01

3	.00	.04	.01	.01	.00	.00
4	.31	.14	.00	.00	.01	.01
5	.00	.02	.00	.00	.24	.24
6	.00	.00	.24	.24	.00	.00
7	.00	.00	.38	.38	.37	.37
8	.18	.18	.26	.26	.26	.26
9	.40	.40	.08	.08	.08	.08
10	.04	.04	.02	.02	.02	.02

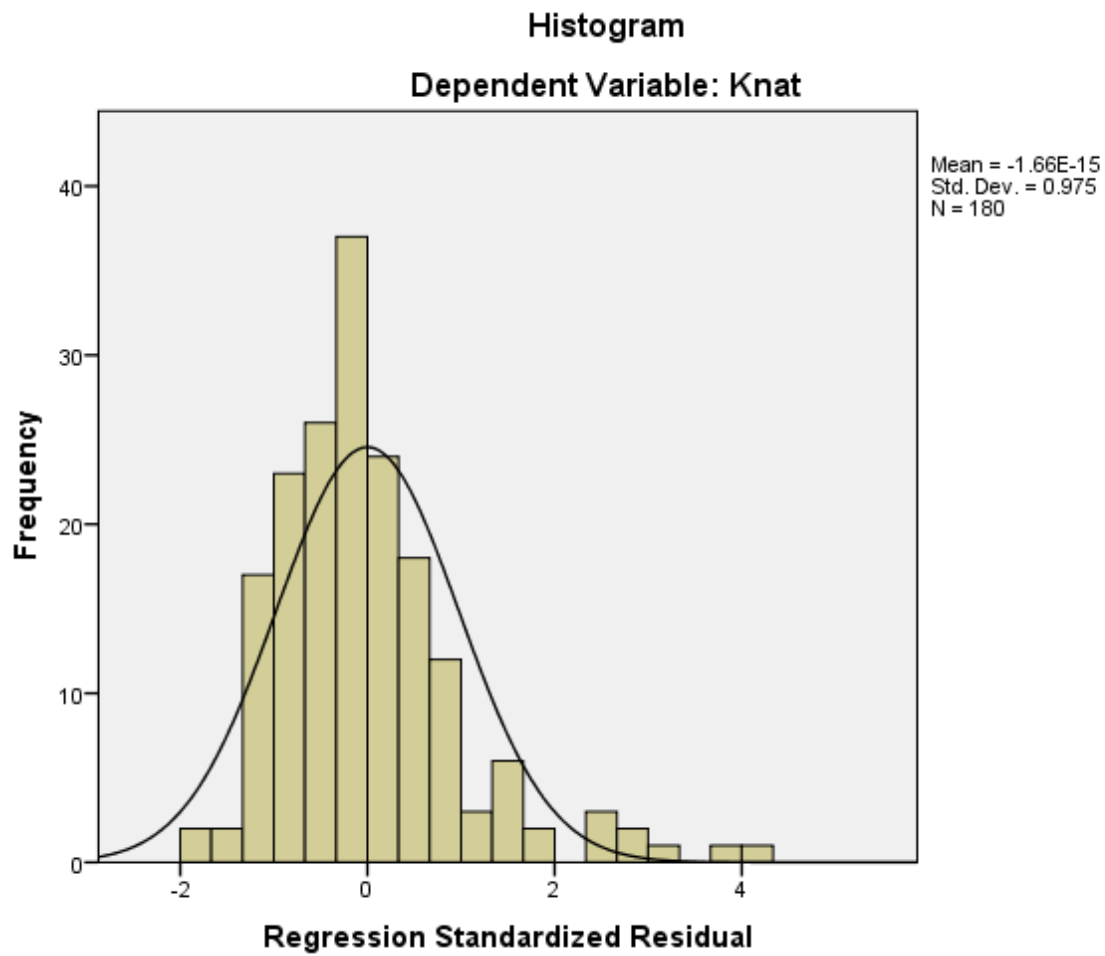
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-2.2995	14.6815	6.3209	3.57061	180
Residual	-1.92477	4.72957	.00000	1.09135	180
Std. Predicted Value	-2.414	2.342	.000	1.000	180
Std. Residual	-1.719	4.223	.000	.975	180

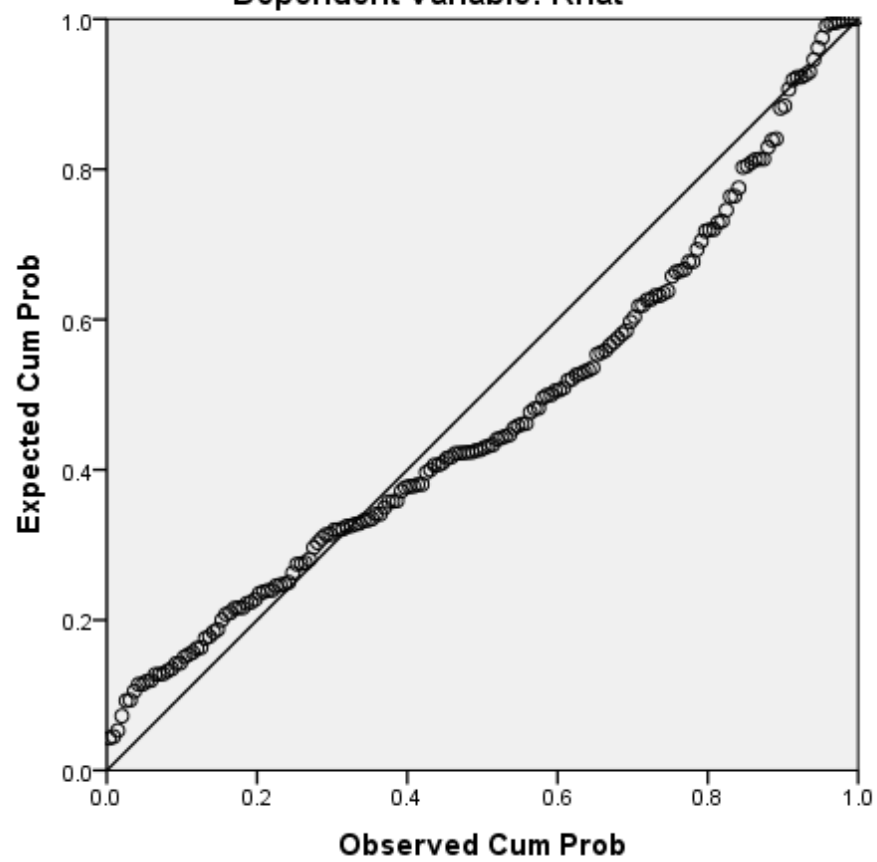
a. Dependent Variable: Knat

Charts



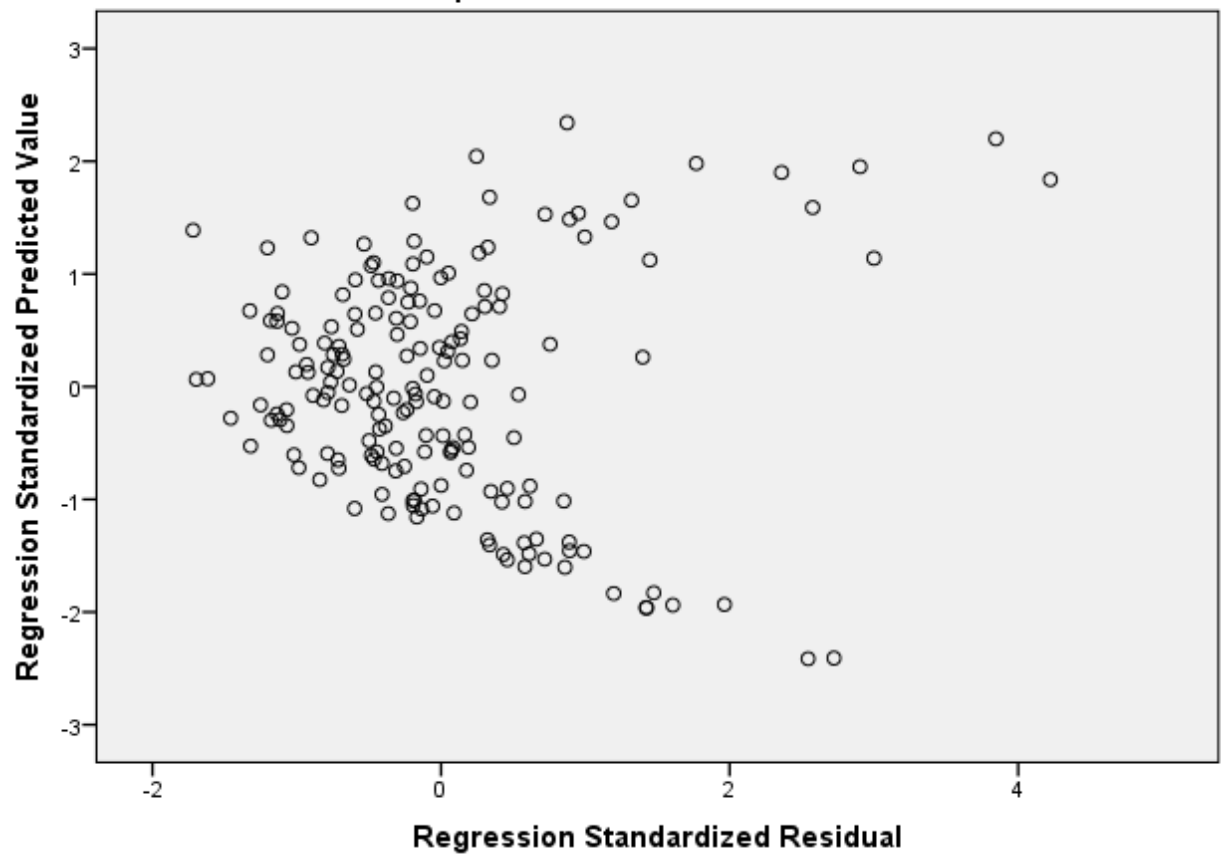
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

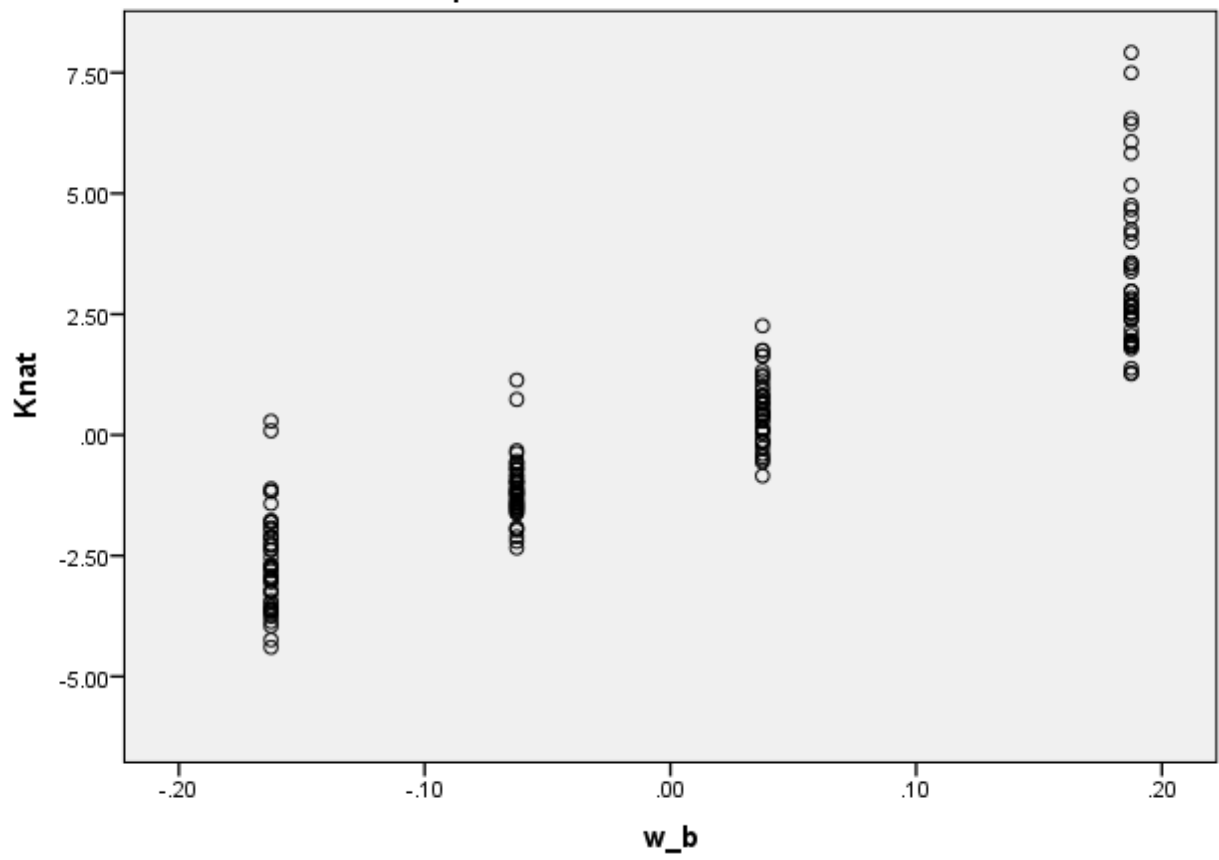


Scatterplot

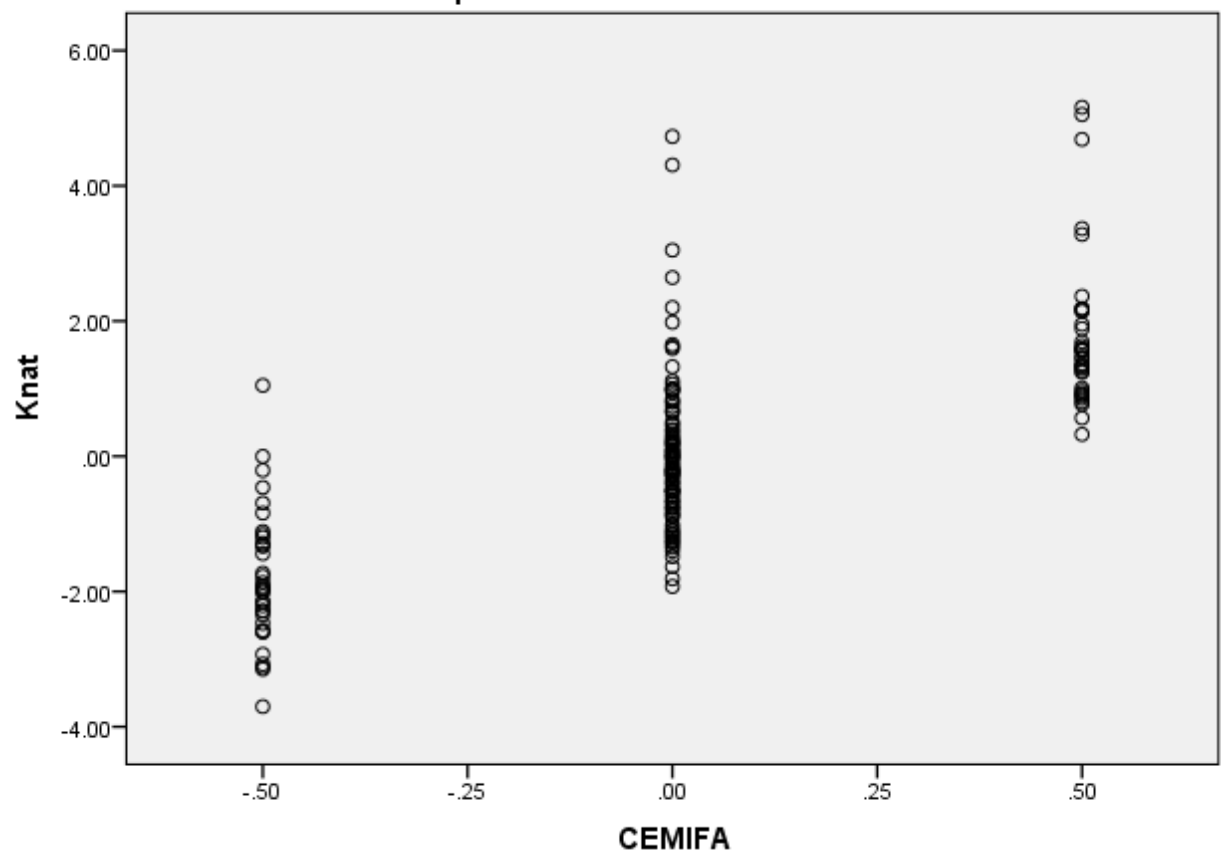
Dependent Variable: Knat



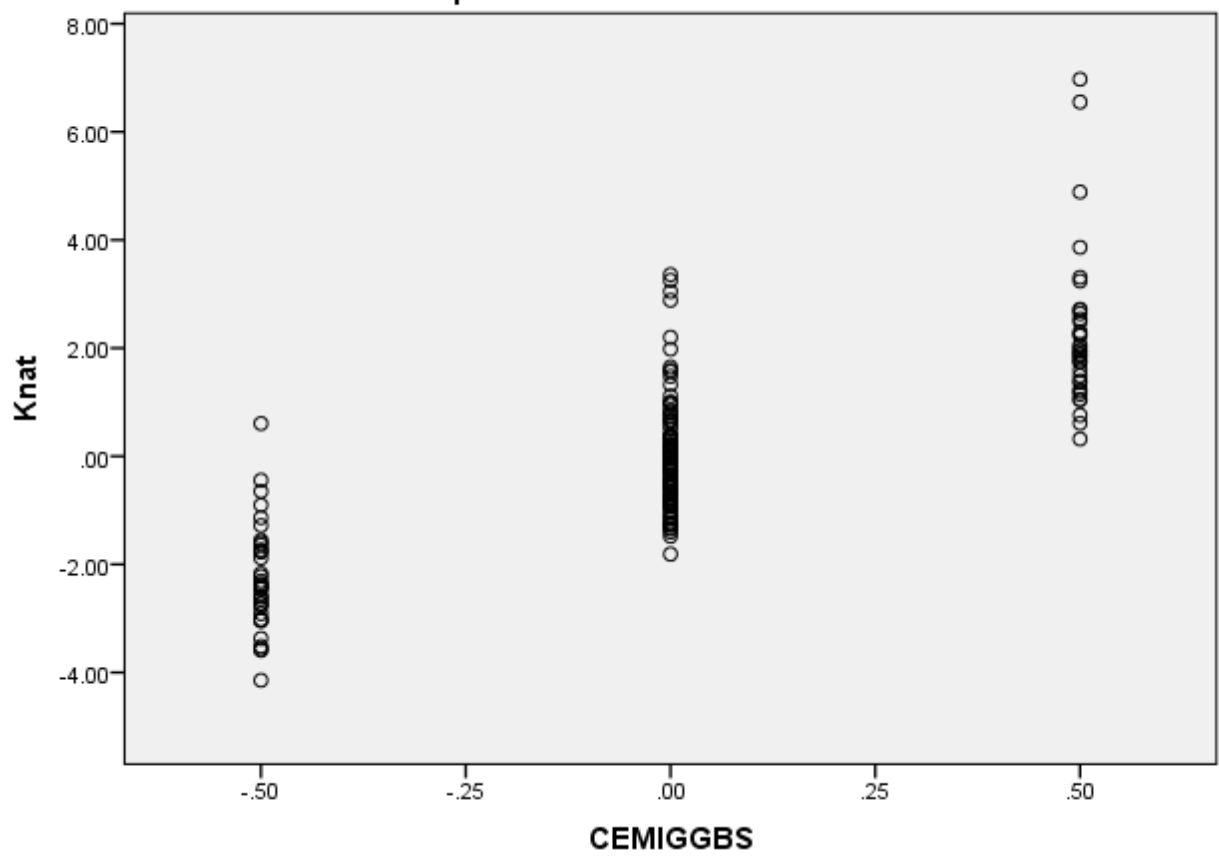
Partial Regression Plot
Dependent Variable: Knat



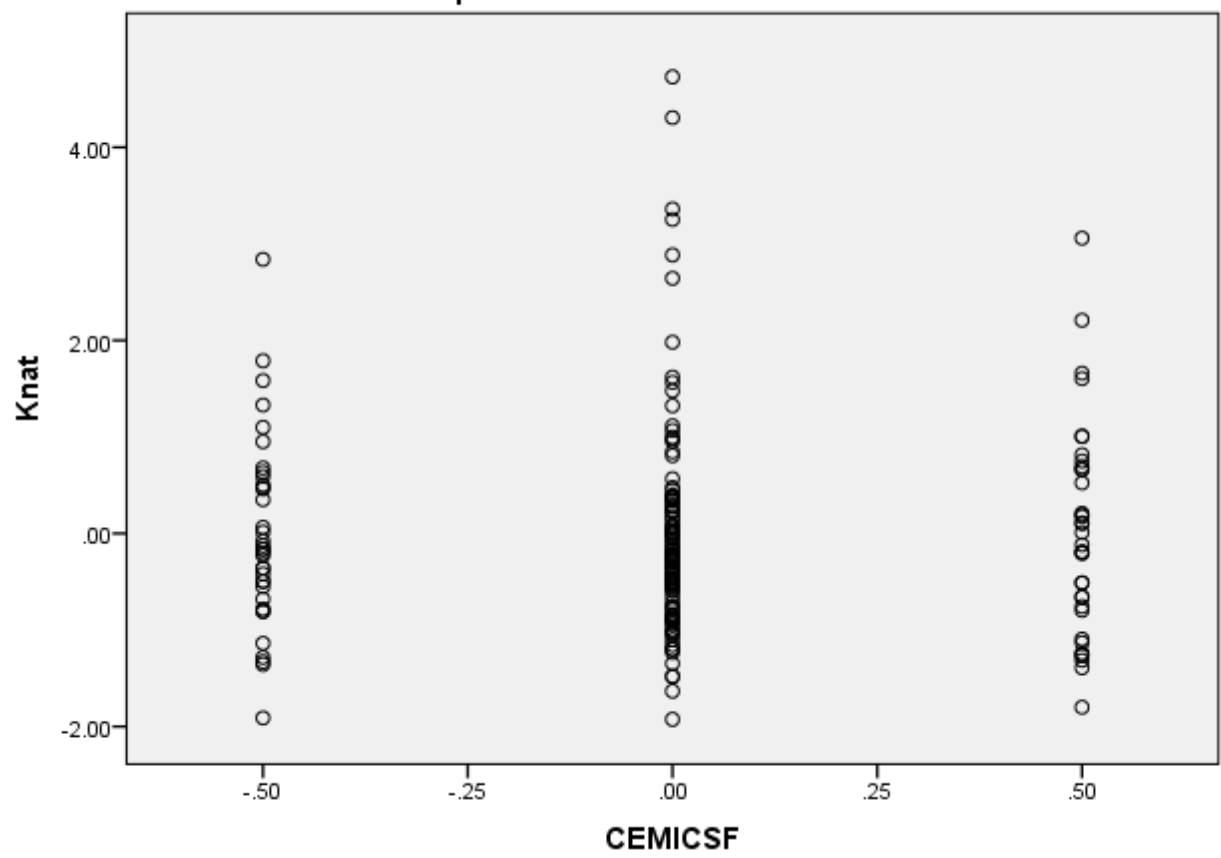
Partial Regression Plot
Dependent Variable: Knat



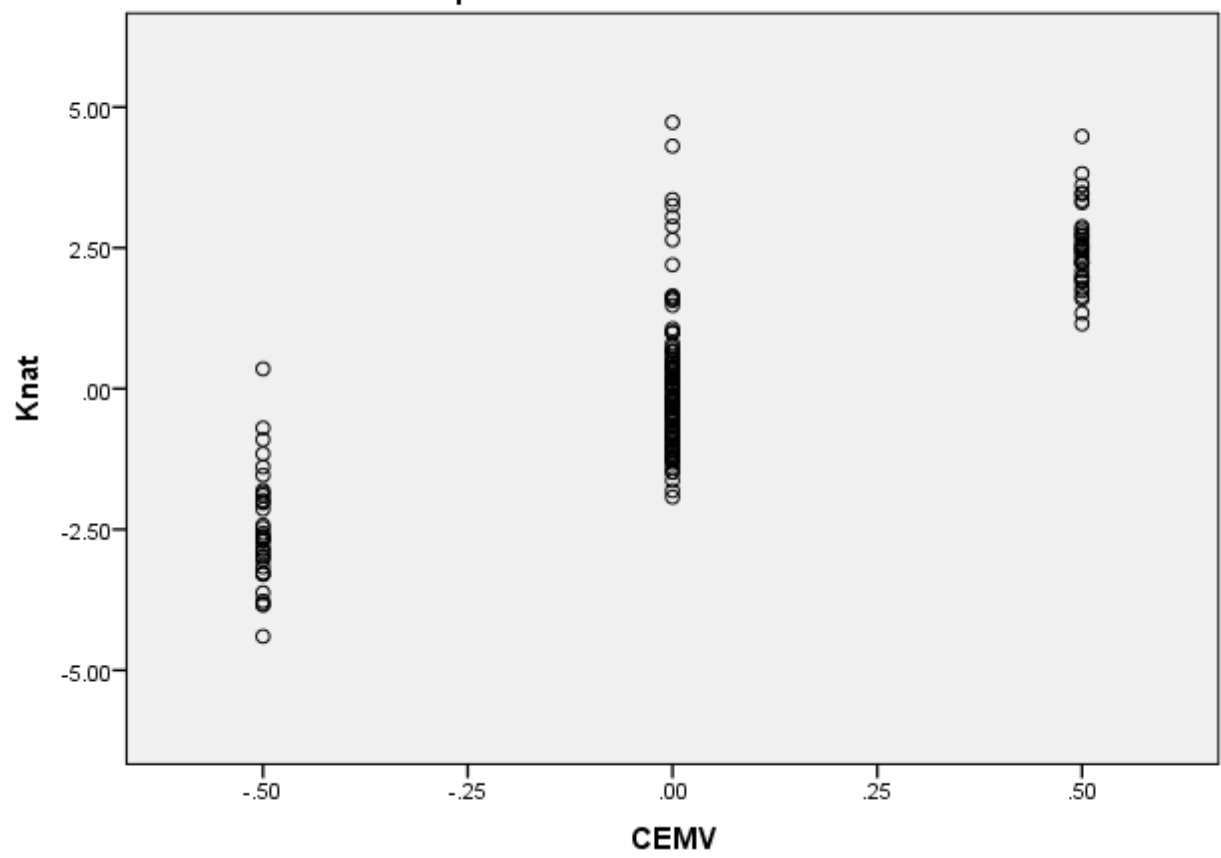
Partial Regression Plot
Dependent Variable: Knat



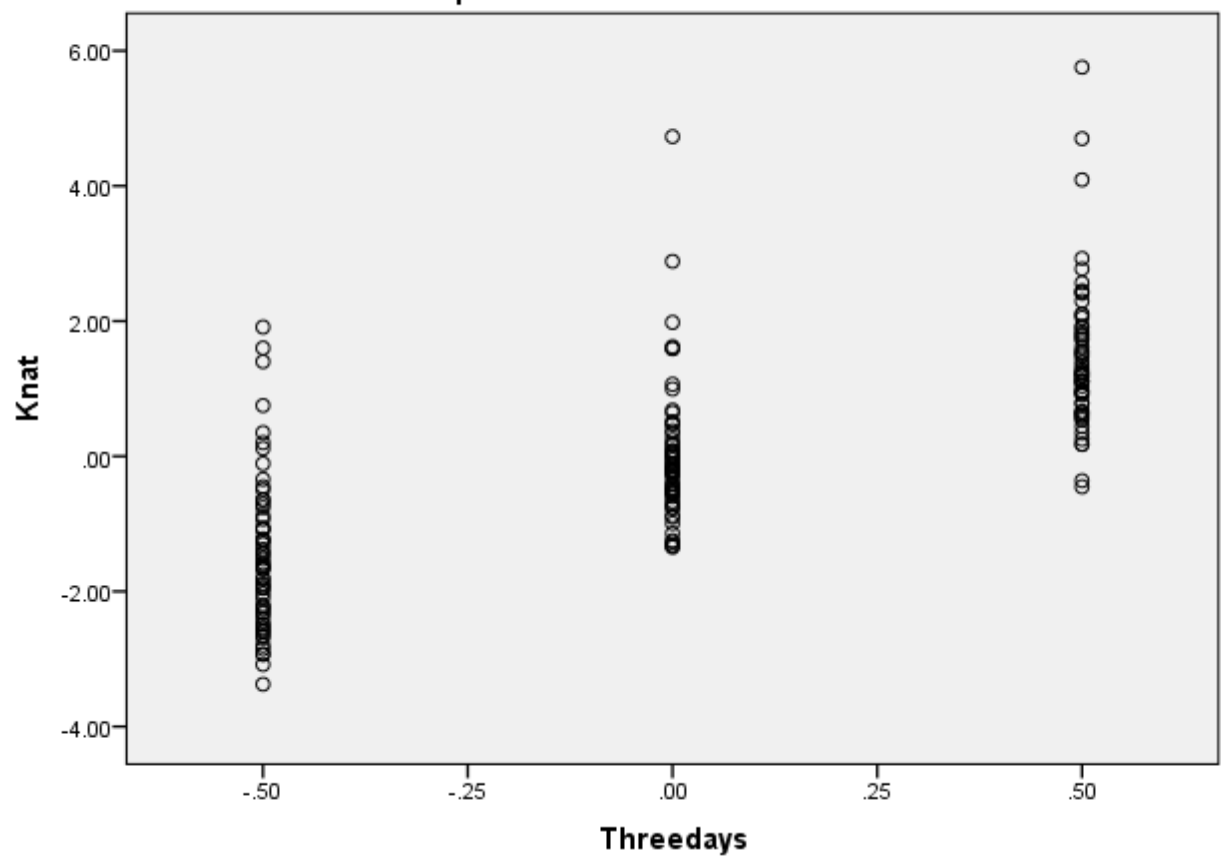
Partial Regression Plot
Dependent Variable: Knat



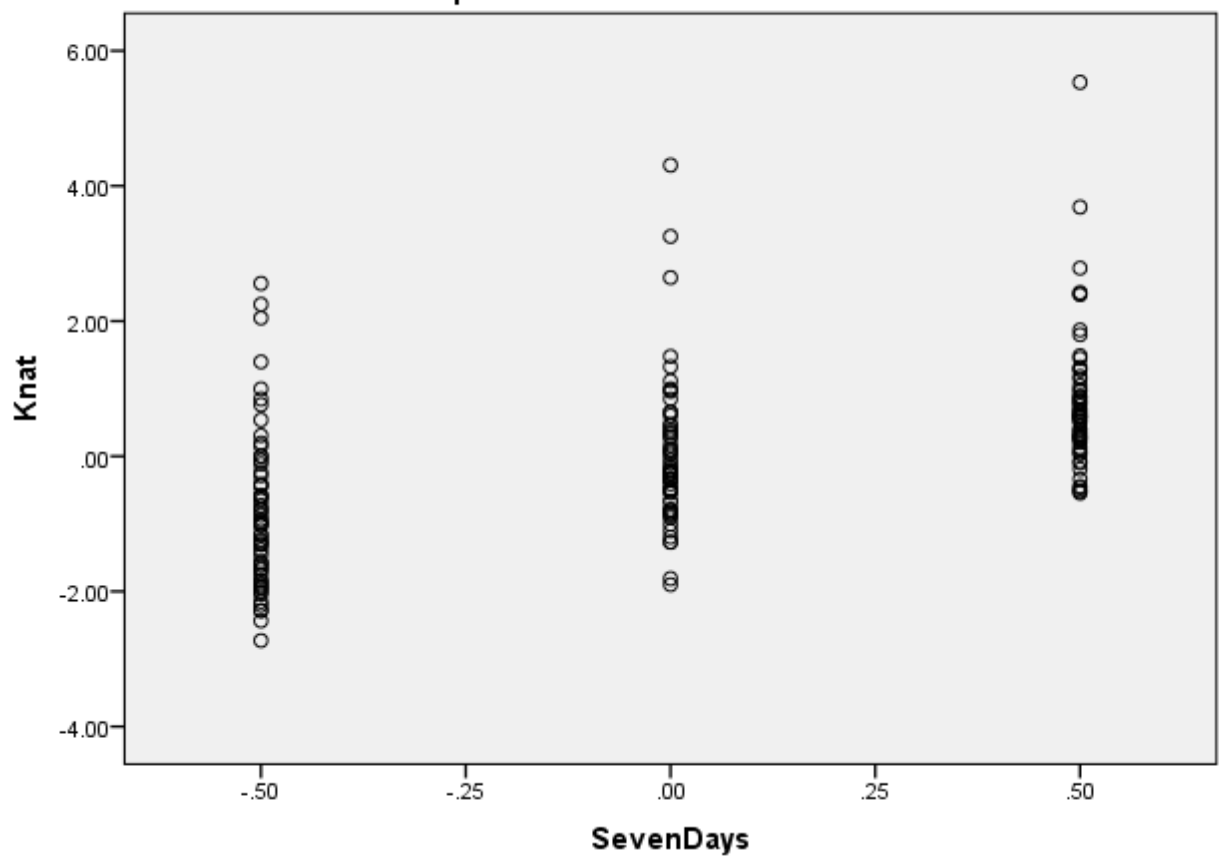
Partial Regression Plot
Dependent Variable: Knat



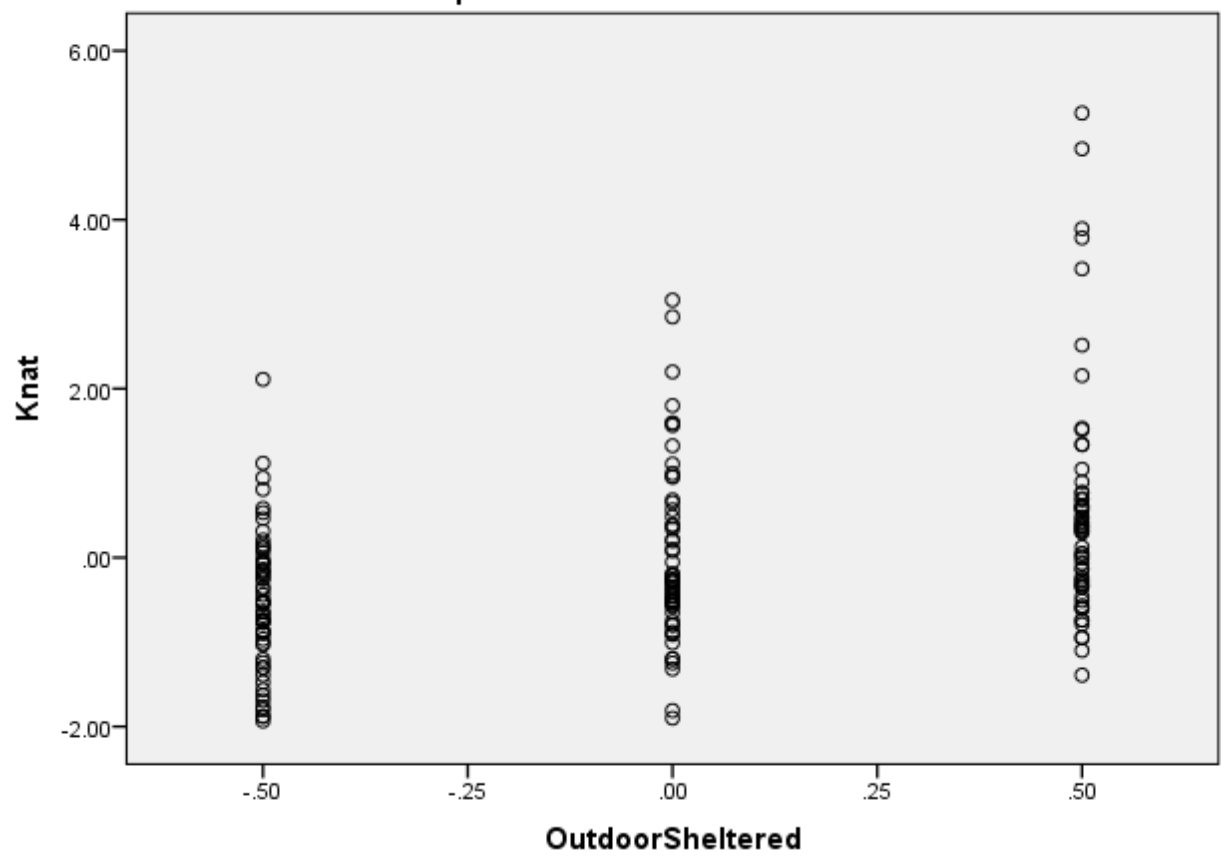
Partial Regression Plot
Dependent Variable: Knat

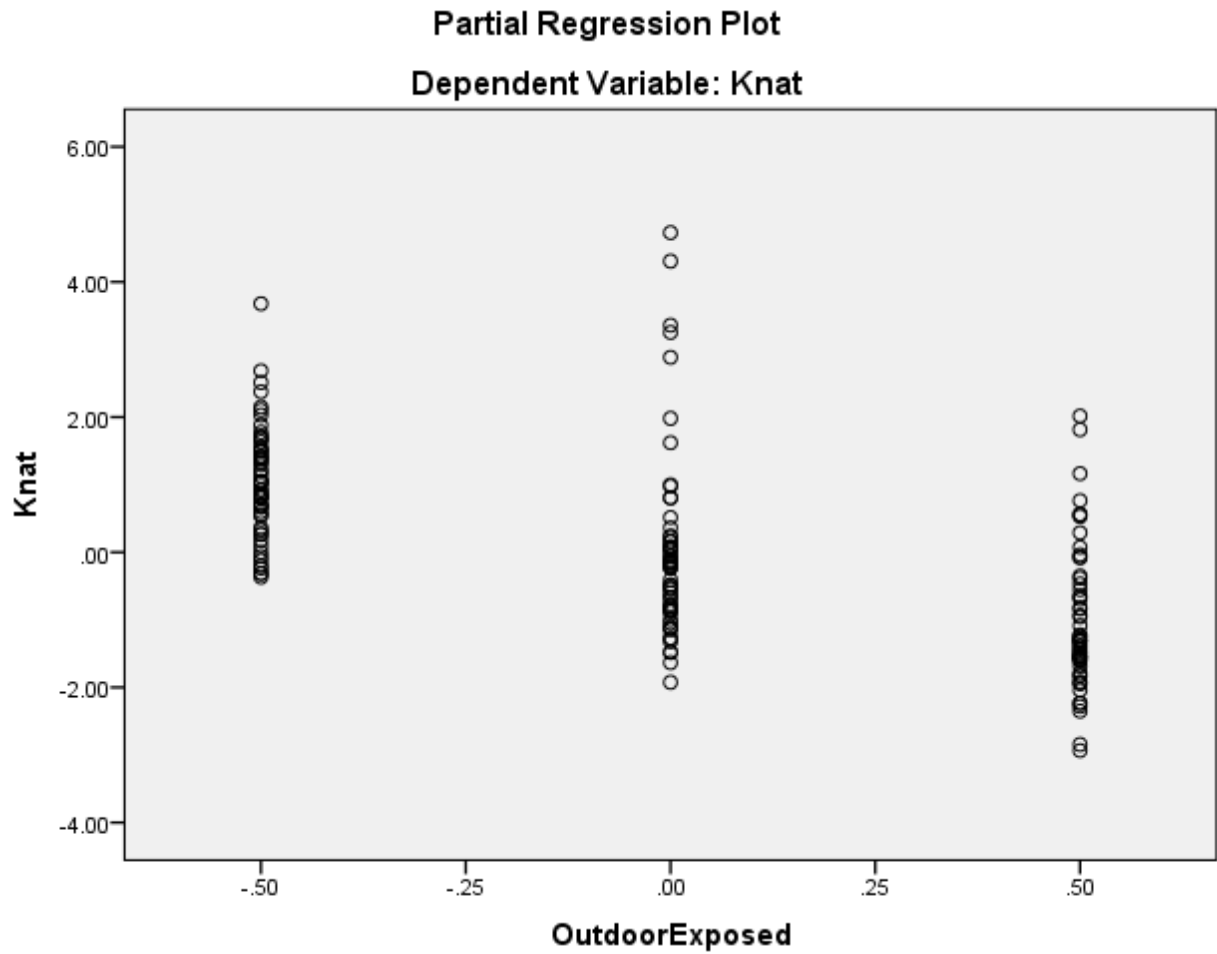


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER OPI OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
OPI	9.633	.4043	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	OPI	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	-.738	.266	-.329
	OPI	-.738	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	OPI	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	OPI	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, OPI, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knot
- b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.817 ^a	.667	.661	2.17295	1.089

- a. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered
- b. Dependent Variable: Knot

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1664.291	3	554.764	117.492	.000 ^b
	Residual	831.021	176	4.722		
	Total	2495.312	179			

- a. Dependent Variable: Knot
- b. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	72.317	3.880		18.639	.000
	OPI	-6.816	.402	-.738	-16.968	.000
	OutdoorSheltered	1.066	.397	.135	2.687	.008
	OutdoorExposed	-2.069	.397	-.262	-5.215	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	64.660	79.974			
	OPI	-7.609	-6.023	-.738	-.788	-.738
	OutdoorSheltered	.283	1.849	.266	.199	.117
	OutdoorExposed	-2.852	-1.286	-.329	-.366	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	OPI	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	OPI	OutdoorSheltered
1	1	2.757	1.000	.00	.00	.03
	2	1.000	1.660	.00	.00	.25
	3	.242	3.376	.00	.00	.72
	4	.001	56.170	1.00	1.00	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1	.03	
	2	.25	
	3	.72	
	4	.00	

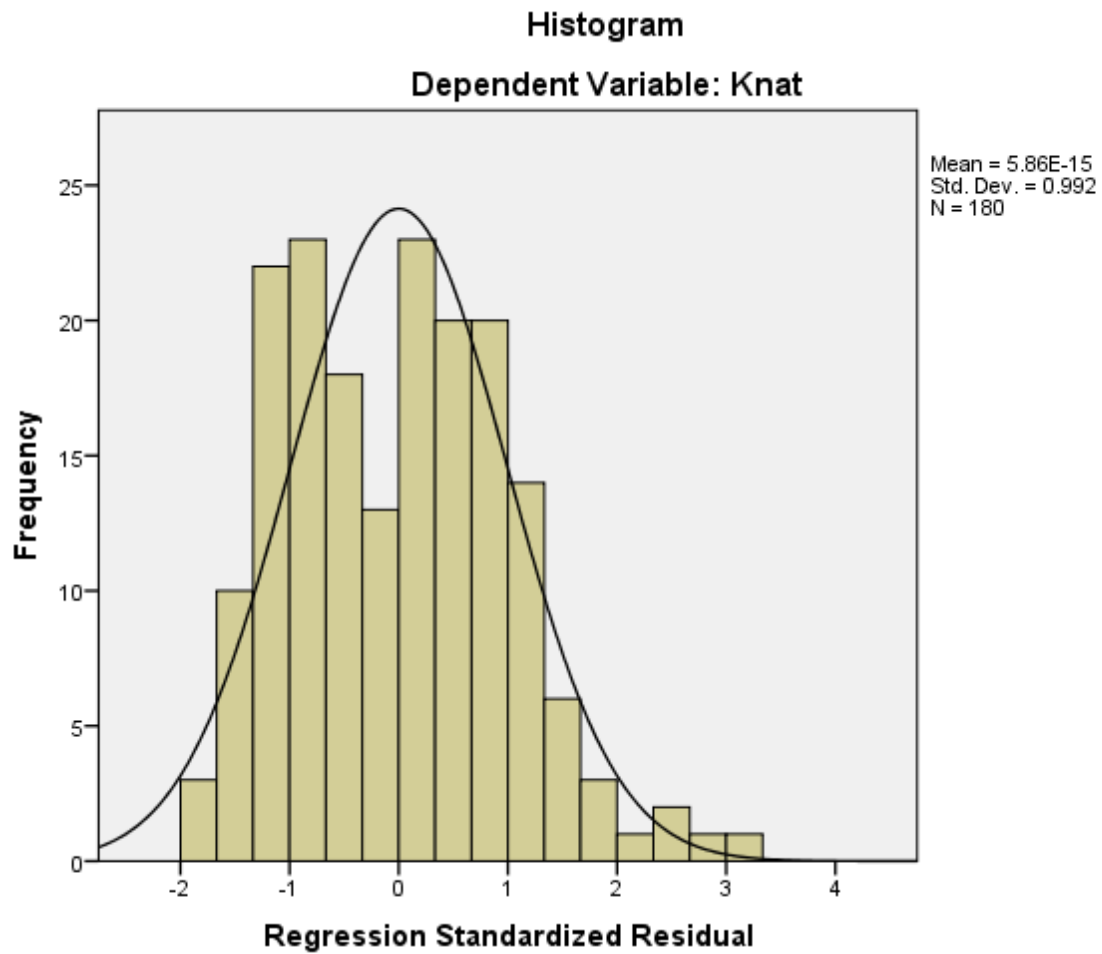
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.6393	17.4911	6.3209	3.04922	180
Residual	-3.87210	6.93503	.00000	2.15466	180
Std. Predicted Value	-2.283	3.663	.000	1.000	180
Std. Residual	-1.782	3.192	.000	.992	180

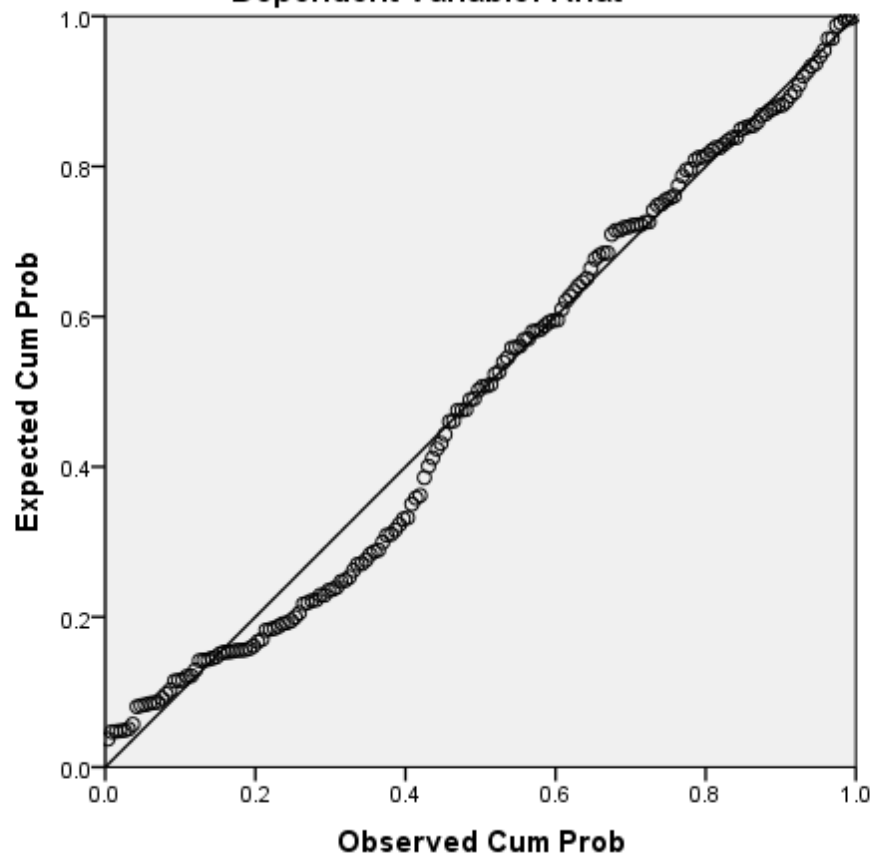
a. Dependent Variable: Knat

Charts



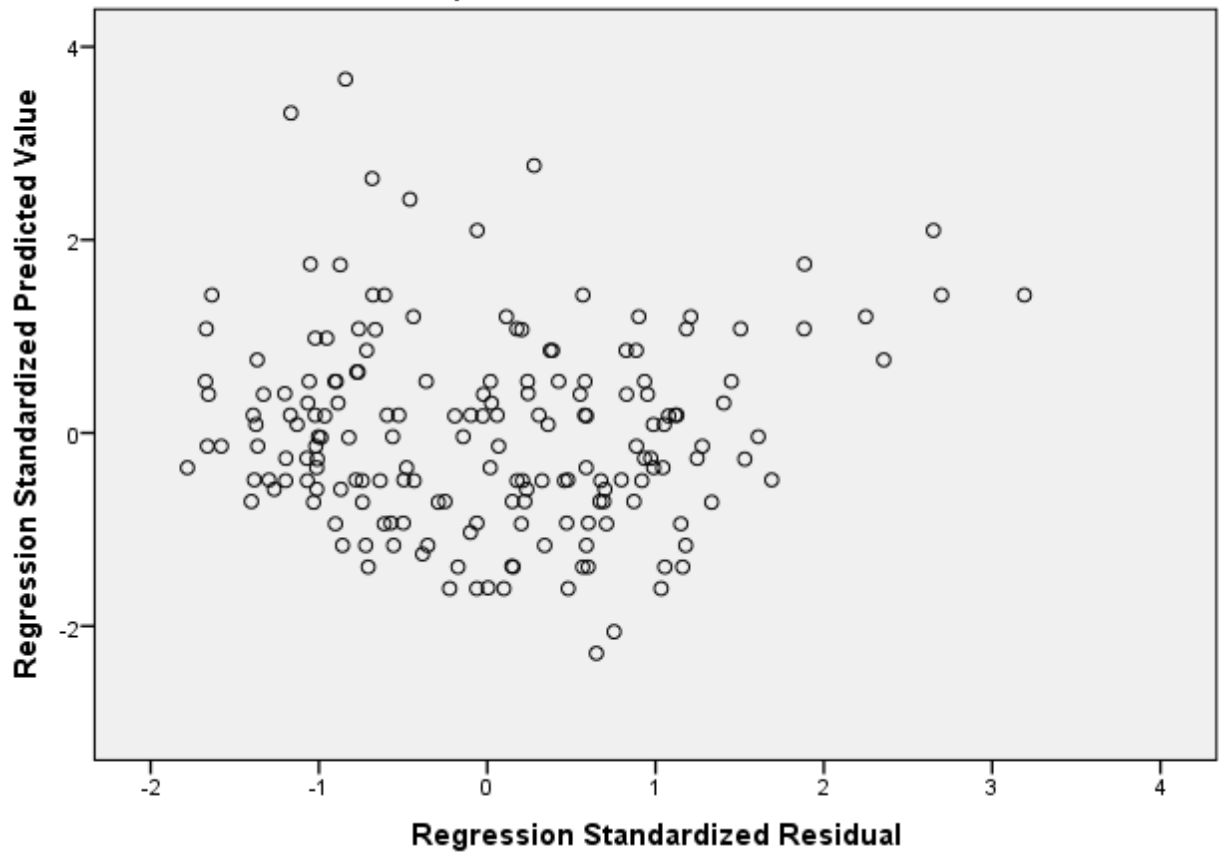
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

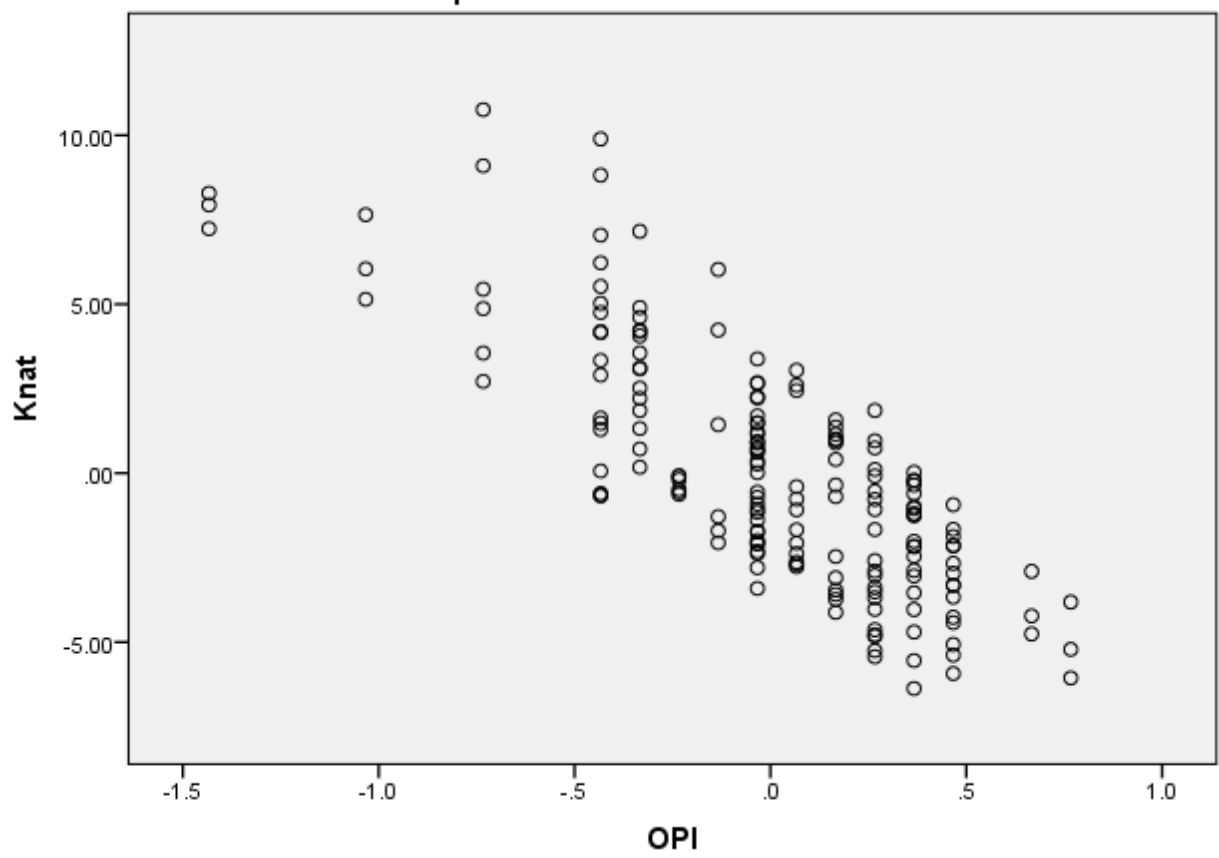


Scatterplot

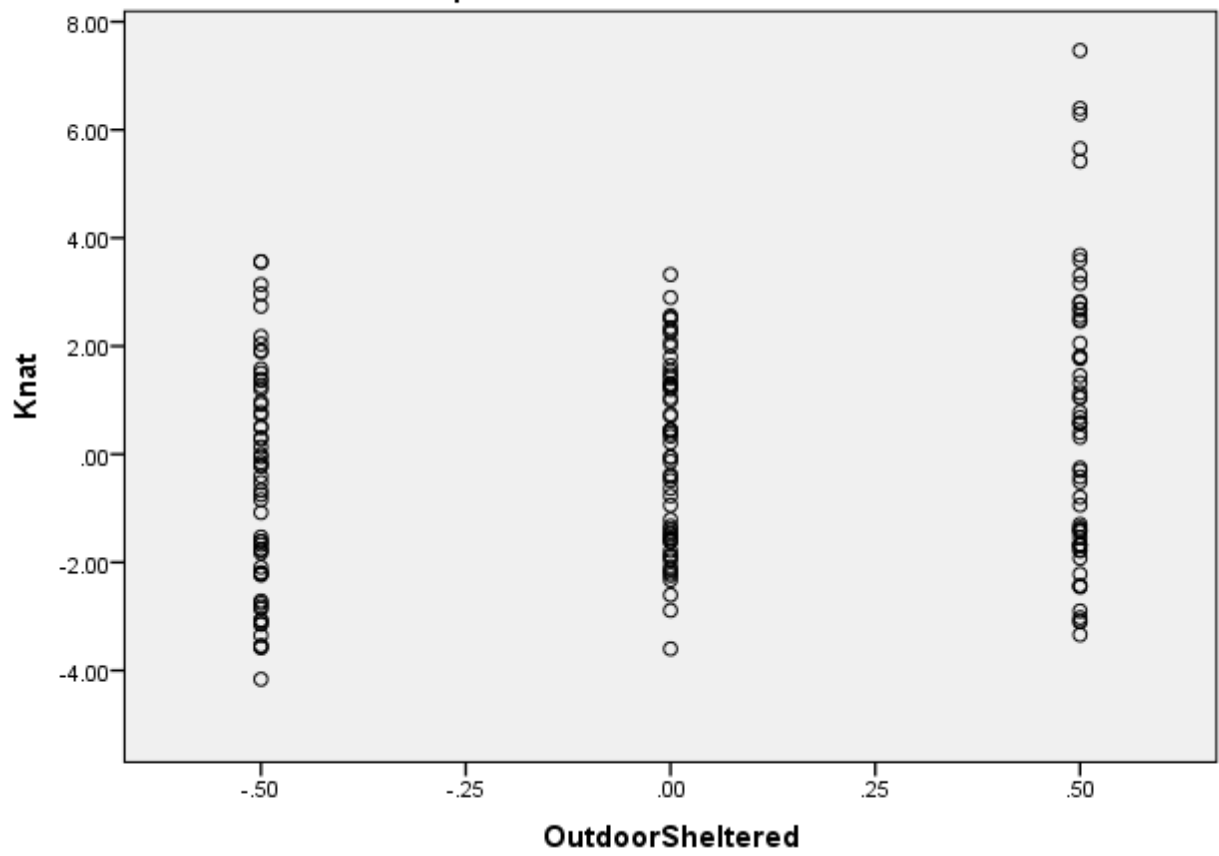
Dependent Variable: Knat

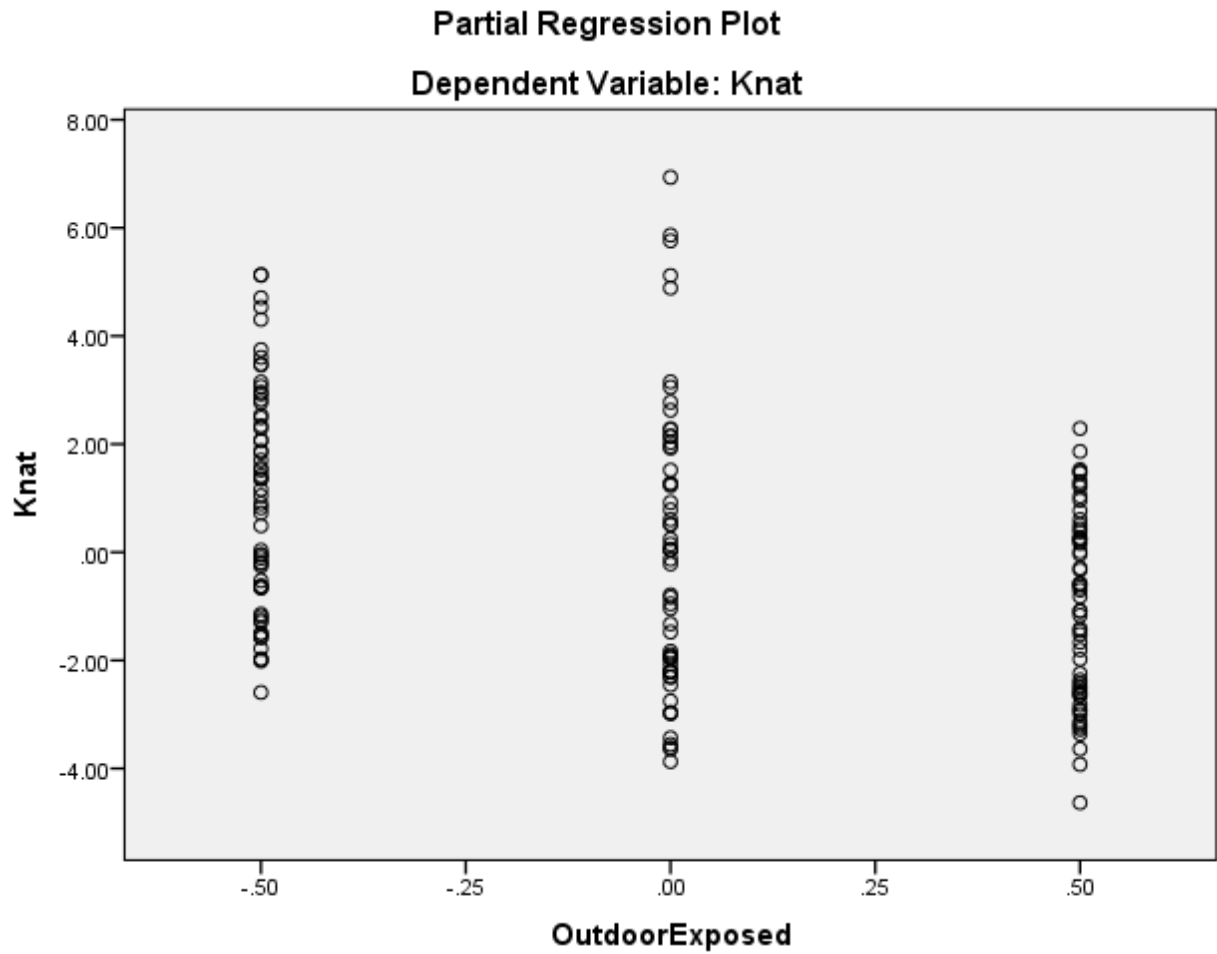


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER WS OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
WS	10.028	3.8857	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	WS	OutdoorSheltered	OutdoorExposed
				d	d
Pearson Correlation	Knat	1.000	.747	.266	-.329
	WS	.747	1.000	.000	.000
	OutdoorSheltered	.266	.000	1.000	-.500
	OutdoorExposed	-.329	.000	-.500	1.000
Sig. (1-tailed)	Knat	.	.000	.000	.000
	WS	.000	.	.500	.500
	OutdoorSheltered	.000	.500	.	.000
	OutdoorExposed	.000	.500	.000	.
N	Knat	180	180	180	180
	WS	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	OutdoorExposed, WS, OutdoorSheltered ^b	.	Enter

- a. Dependent Variable: Knot
- b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.825 ^a	.680	.674	2.13049	1.049

- a. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered
- b. Dependent Variable: Knot

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1696.452	3	565.484	124.584	.000 ^b
	Residual	798.860	176	4.539		
	Total	2495.312	179			

- a. Dependent Variable: Knot
- b. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.541	.495		-1.093	.276
	WS	.718	.041	.747	17.509	.000
	OutdoorSheltered	1.066	.389	.135	2.741	.007
	OutdoorExposed	-2.069	.389	-.262	-5.319	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	-1.517	.435			
	WS	.637	.798	.747	.797	.747
	OutdoorSheltered	.299	1.834	.266	.202	.117
	OutdoorExposed	-2.836	-1.301	-.329	-.372	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	WS	1.000	1.000
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	WS	OutdoorSheltered
1	1	2.676	1.000	.01	.02	.03
	2	1.000	1.636	.00	.00	.25
	3	.262	3.194	.03	.13	.64
	4	.062	6.586	.96	.86	.08

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		OutdoorExposed	
1	1		
	2		
	3		
	4		

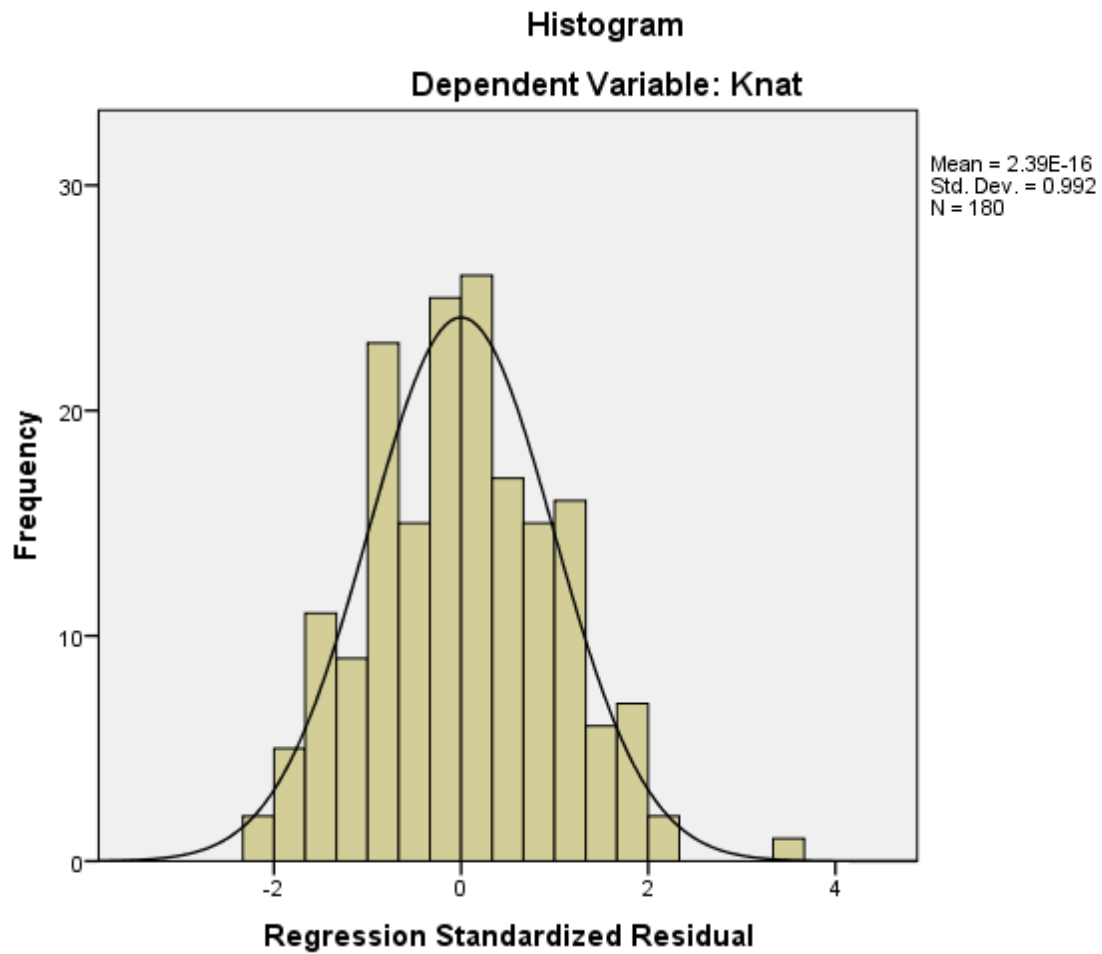
a. Dependent Variable: Knat

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.1698	14.8765	6.3209	3.07854	180
Residual	-4.62417	7.54109	.00000	2.11256	180
Std. Predicted Value	-2.108	2.779	.000	1.000	180
Std. Residual	-2.170	3.540	.000	.992	180

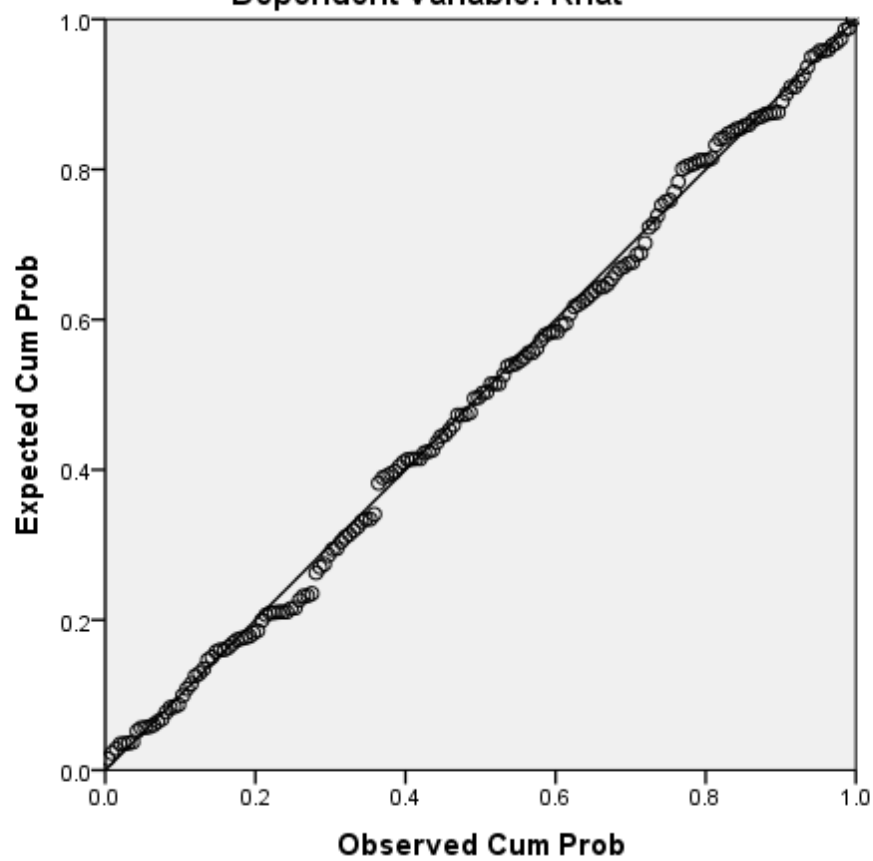
a. Dependent Variable: Knat

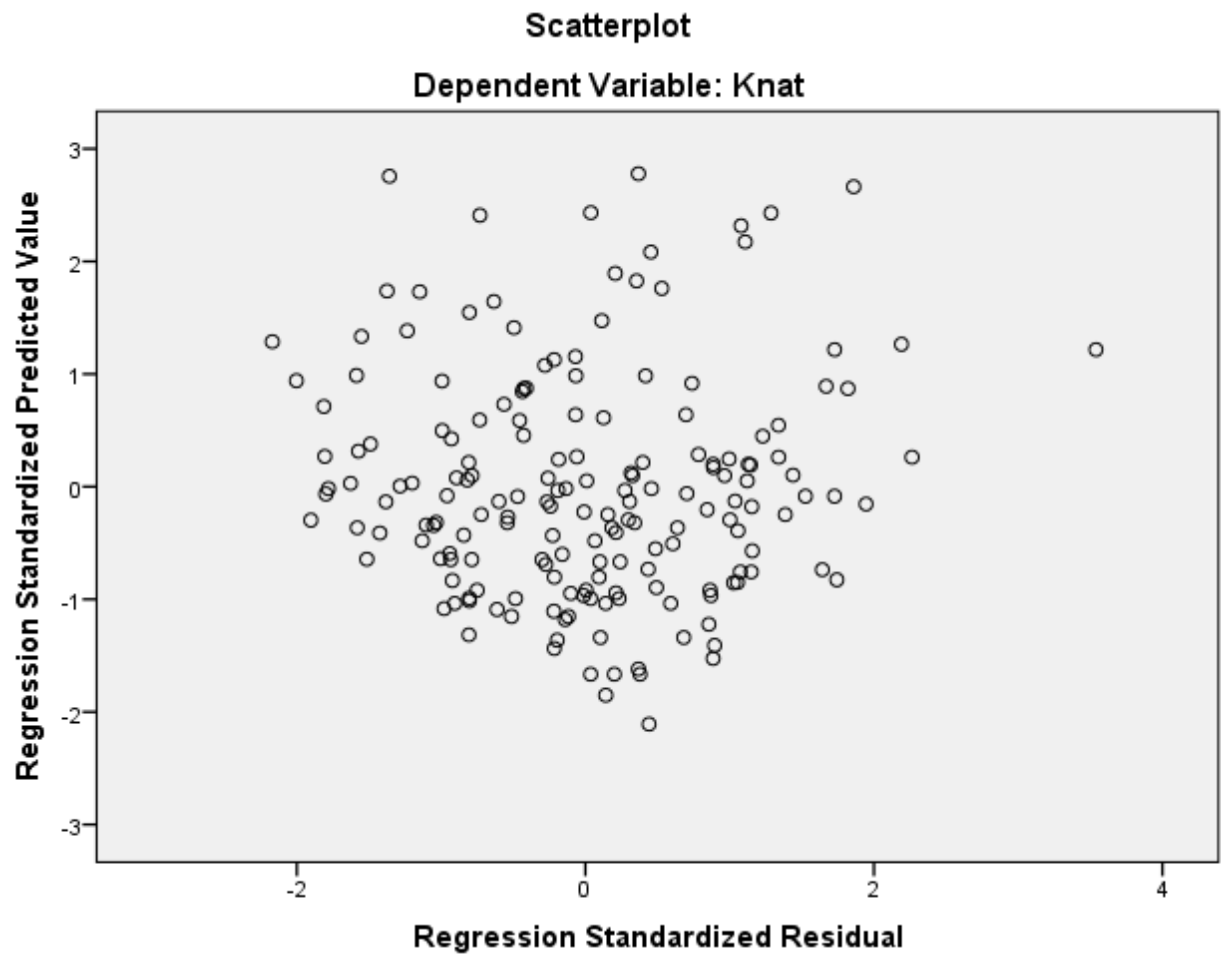
Charts



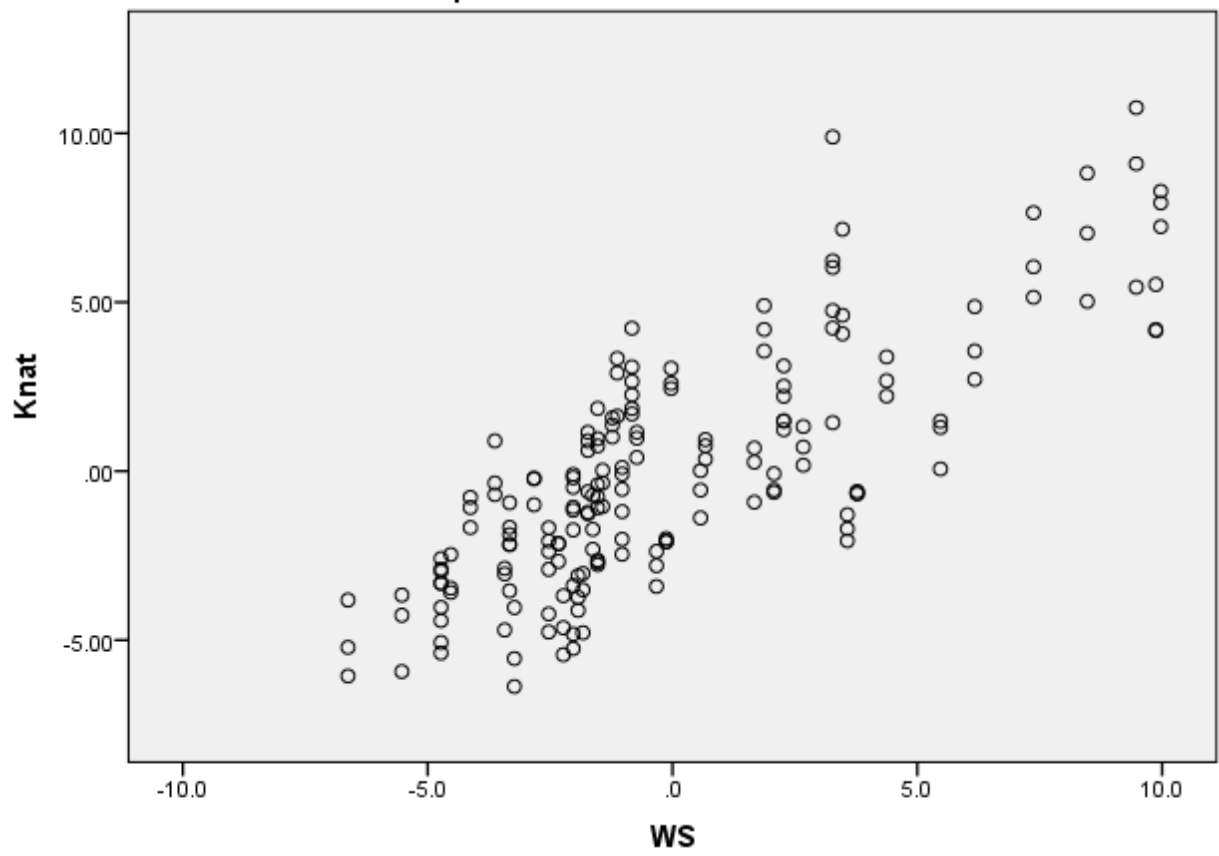
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

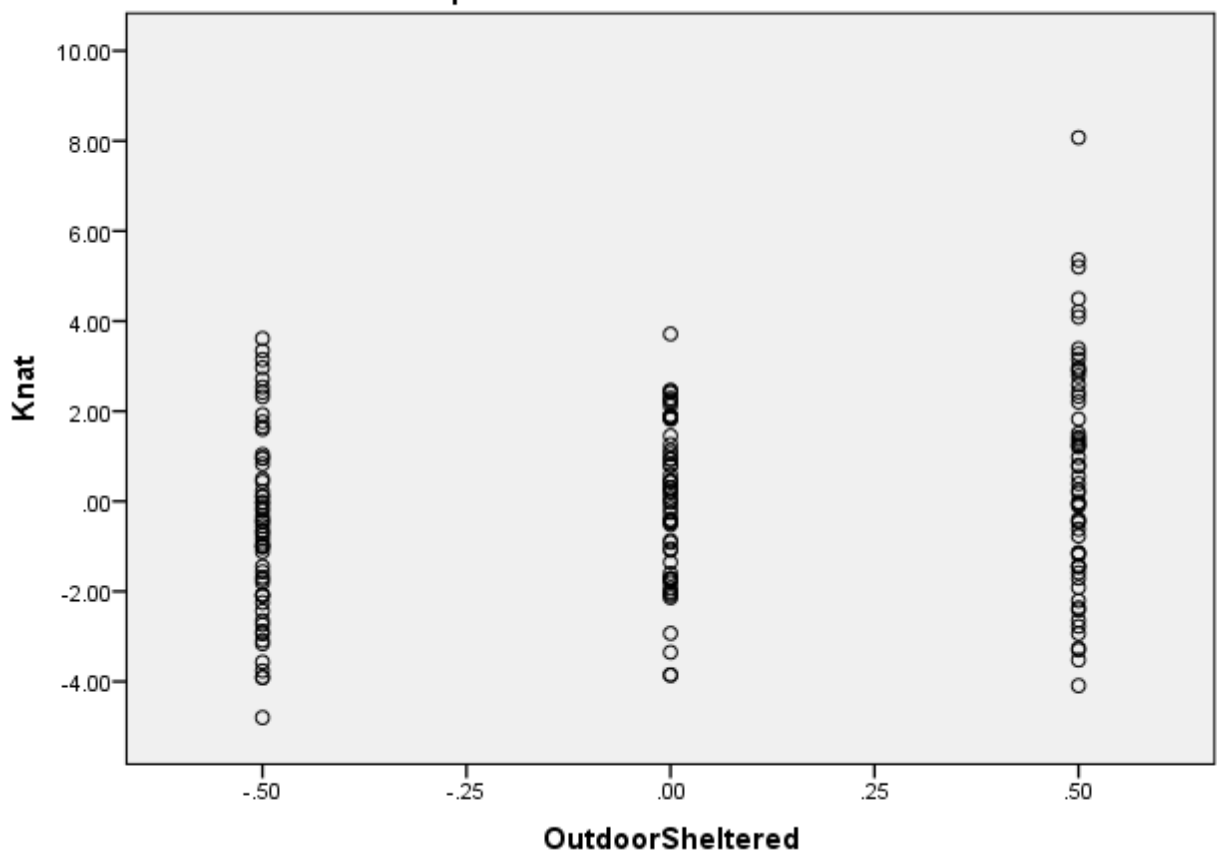


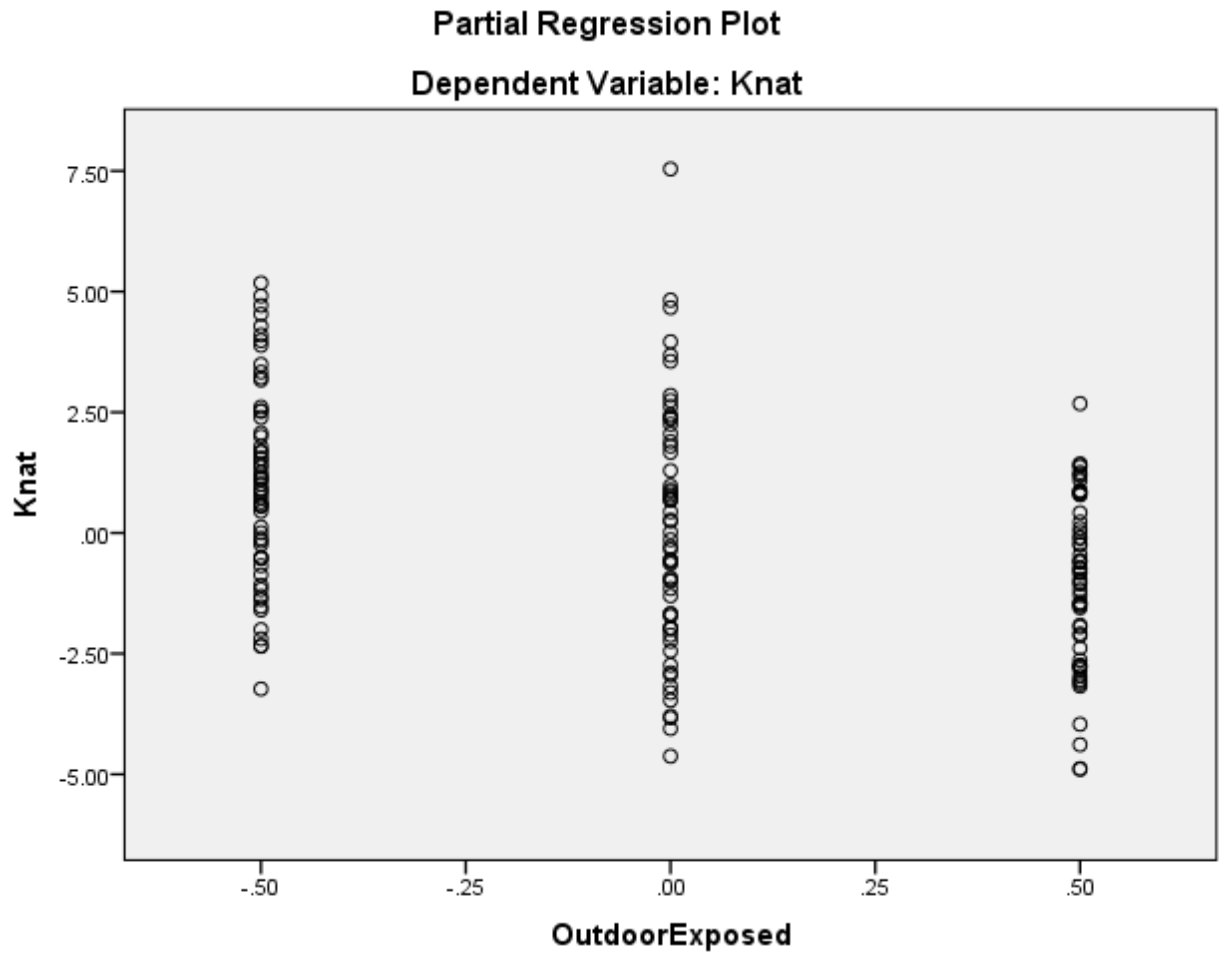


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER fc OPI OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
OPI	9.633	.4043	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	OPI	OutdoorSheltered
Pearson Correlation	Knat	1.000	-.777	-.738	.266
	fc	-.777	1.000	.742	.000
	OPI	-.738	.742	1.000	.000
	OutdoorSheltered	.266	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000
	fc	.000	.	.000	.500
	OPI	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.
	OutdoorExposed	.000	.500	.500	.000
N	Knat	180	180	180	180
	fc	180	180	180	180
	OPI	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorExposed
Pearson Correlation	Knat	-.329
	fc	.000

Sig. (1-tailed)	OPI	.000
	OutdoorSheltered	-.500
	OutdoorExposed	1.000
	Knat	.000
	fc	.500
	OPI	.500
	OutdoorSheltered	.000
	OutdoorExposed	.
	Knat	.180
	fc	.180
N	OPI	180
	OutdoorSheltered	180
	OutdoorExposed	180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, OPI, OutdoorSheltered, fc ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.886 ^a	.784	.779	1.75416	1.280

a. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered, fc

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1956.826	4	489.207	158.985	.000 ^b
	Residual	538.486	175	3.077		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, OPI, OutdoorSheltered, fc

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	42.287	4.393		9.627	.000
	fc	-.103	.011	-.511	-9.750	.000
	OPI	-3.316	.484	-.359	-6.855	.000
	OutdoorSheltered	1.066	.320	.135	3.329	.001
	OutdoorExposed	-2.069	.320	-.262	-6.460	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	33.618	50.957			
	fc	-.124	-.082	-.777	-.593	-.342
	OPI	-4.271	-2.361	-.738	-.460	-.241
	OutdoorSheltered	.434	1.698	.266	.244	.117
	OutdoorExposed	-2.701	-1.437	-.329	-.439	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	.449	2.225
	OPI	.449	2.225
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics ^a							
Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	fc	OPI	OutdoorSheltered
1	1	3.580	1.000	.00	.01	.00	.02
	2	1.000	1.892	.00	.00	.00	.25
	3	.293	3.496	.00	.07	.00	.62
	4	.126	5.328	.00	.39	.00	.12
	5	.000	92.763	1.00	.53	1.00	.00

Collinearity Diagnostics ^a		
Model	Dimension	Variance Proportions
		OutdoorExposed
1	1	.02
	2	.25
	3	.62
	4	.12
	5	.00

a. Dependent Variable: Knat

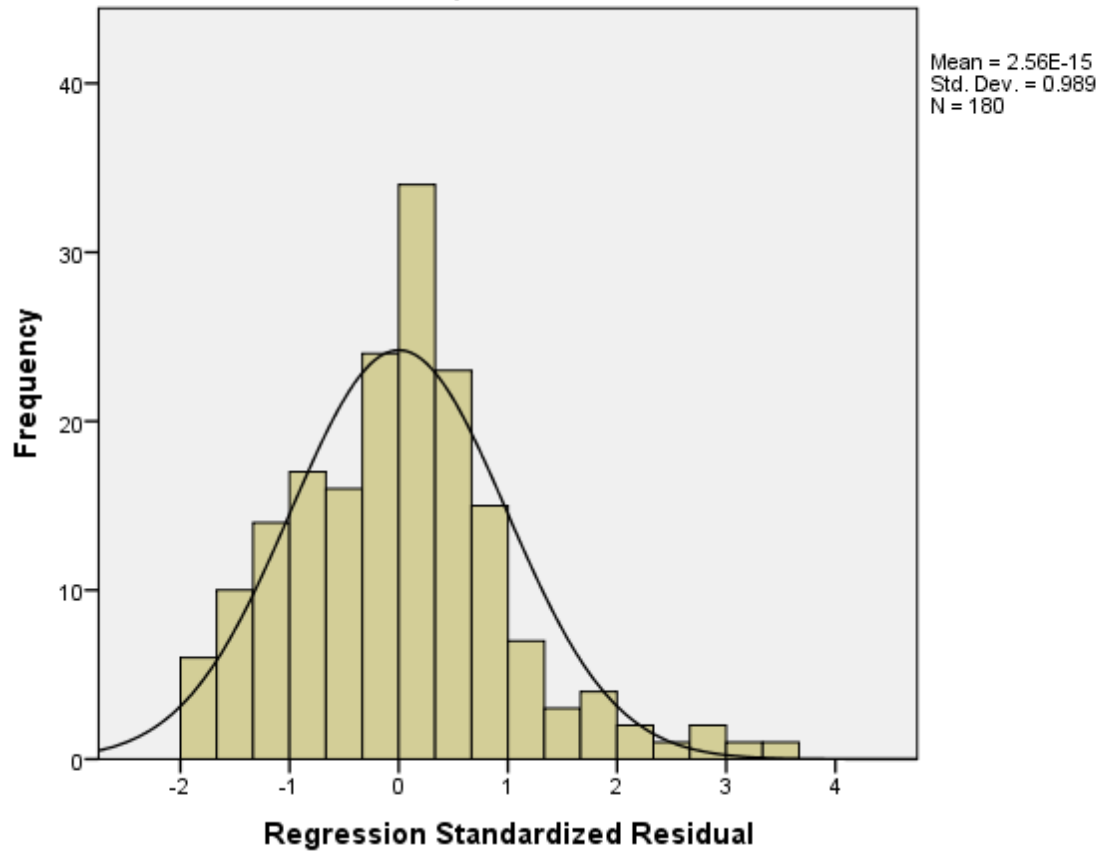
Residuals Statistics ^a					
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-3.6582	15.1952	6.3209	3.30636	180
Residual	-3.09694	6.06273	.00000	1.73445	180
Std. Predicted Value	-3.018	2.684	.000	1.000	180
Std. Residual	-1.765	3.456	.000	.989	180

a. Dependent Variable: Knat

Charts

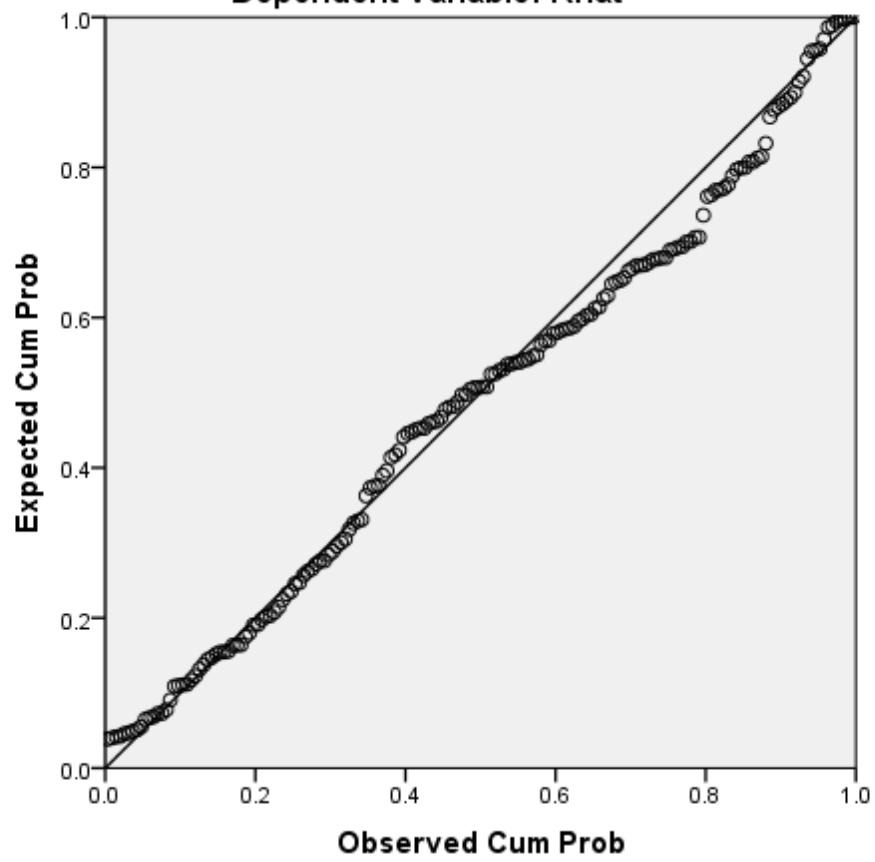
Histogram

Dependent Variable: Knat



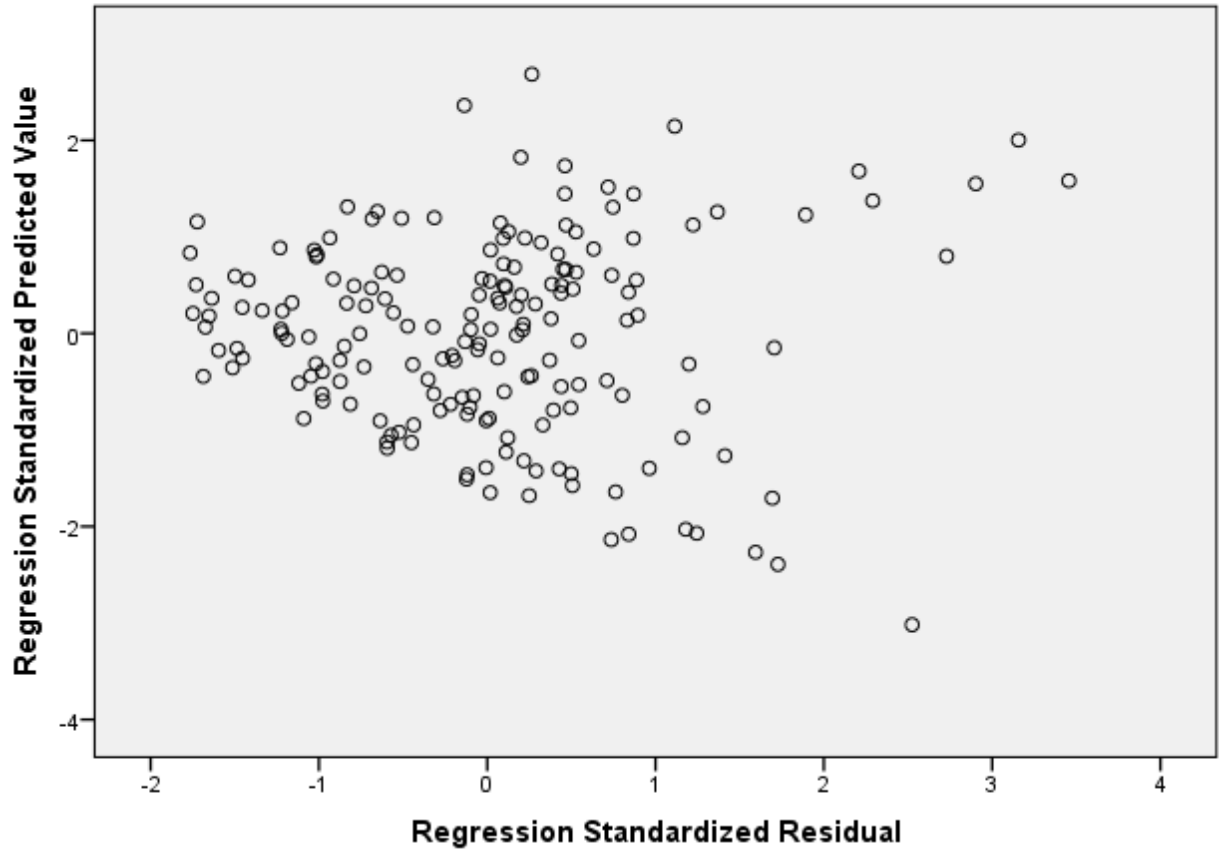
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

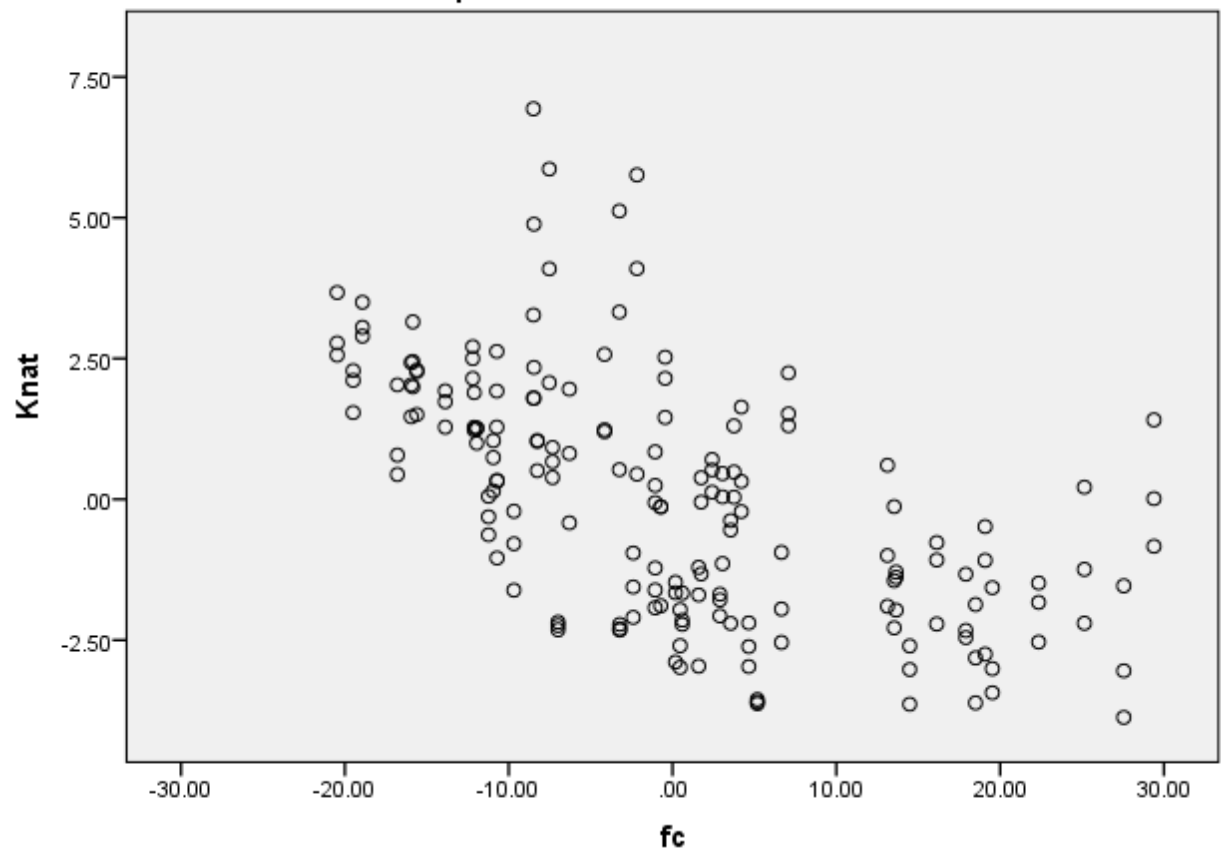


Scatterplot

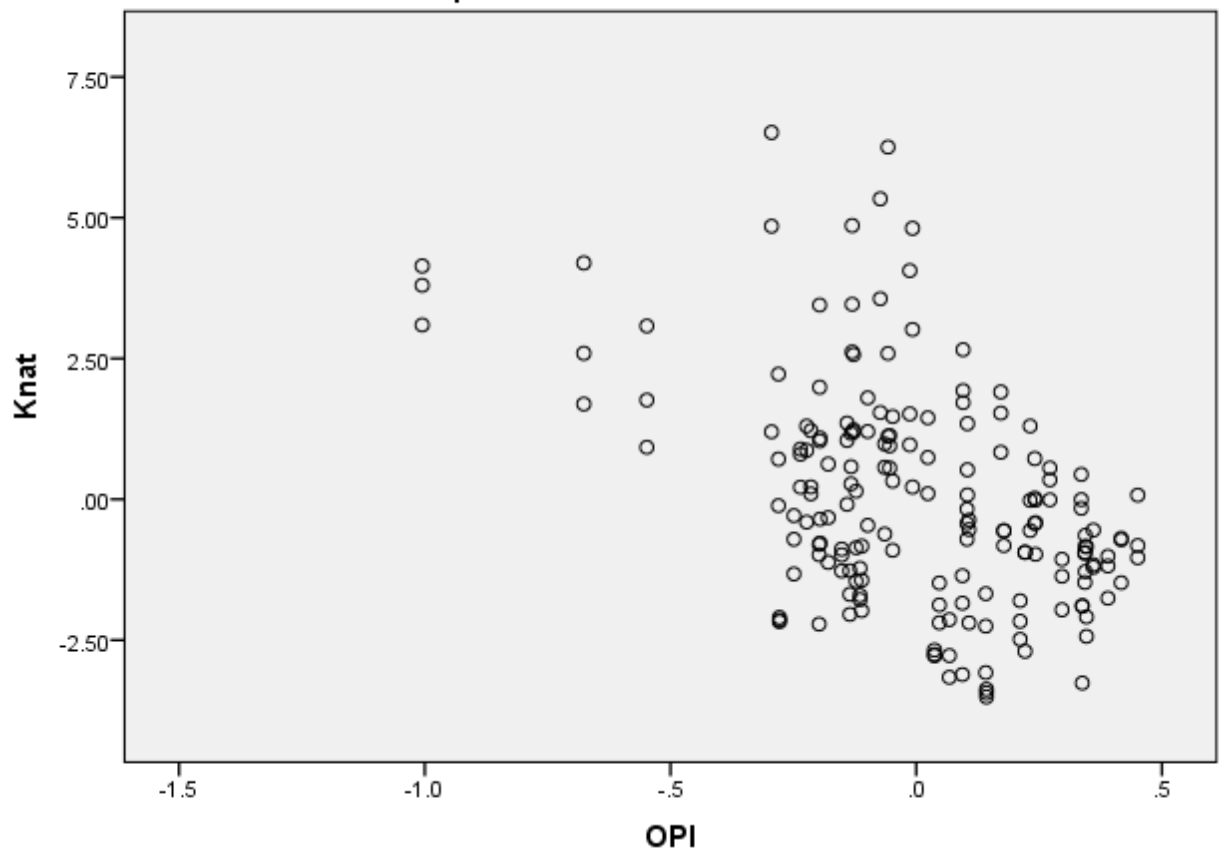
Dependent Variable: Knat



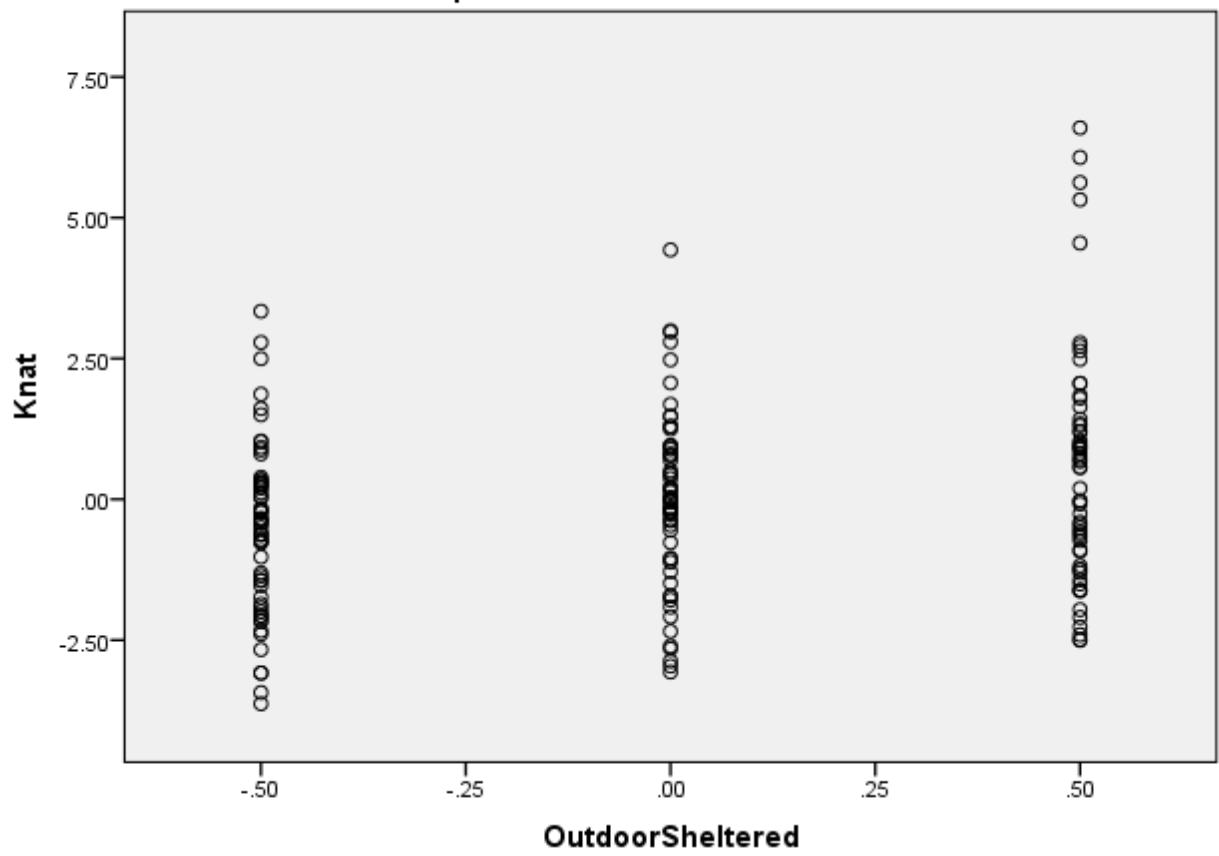
Partial Regression Plot
Dependent Variable: Knat

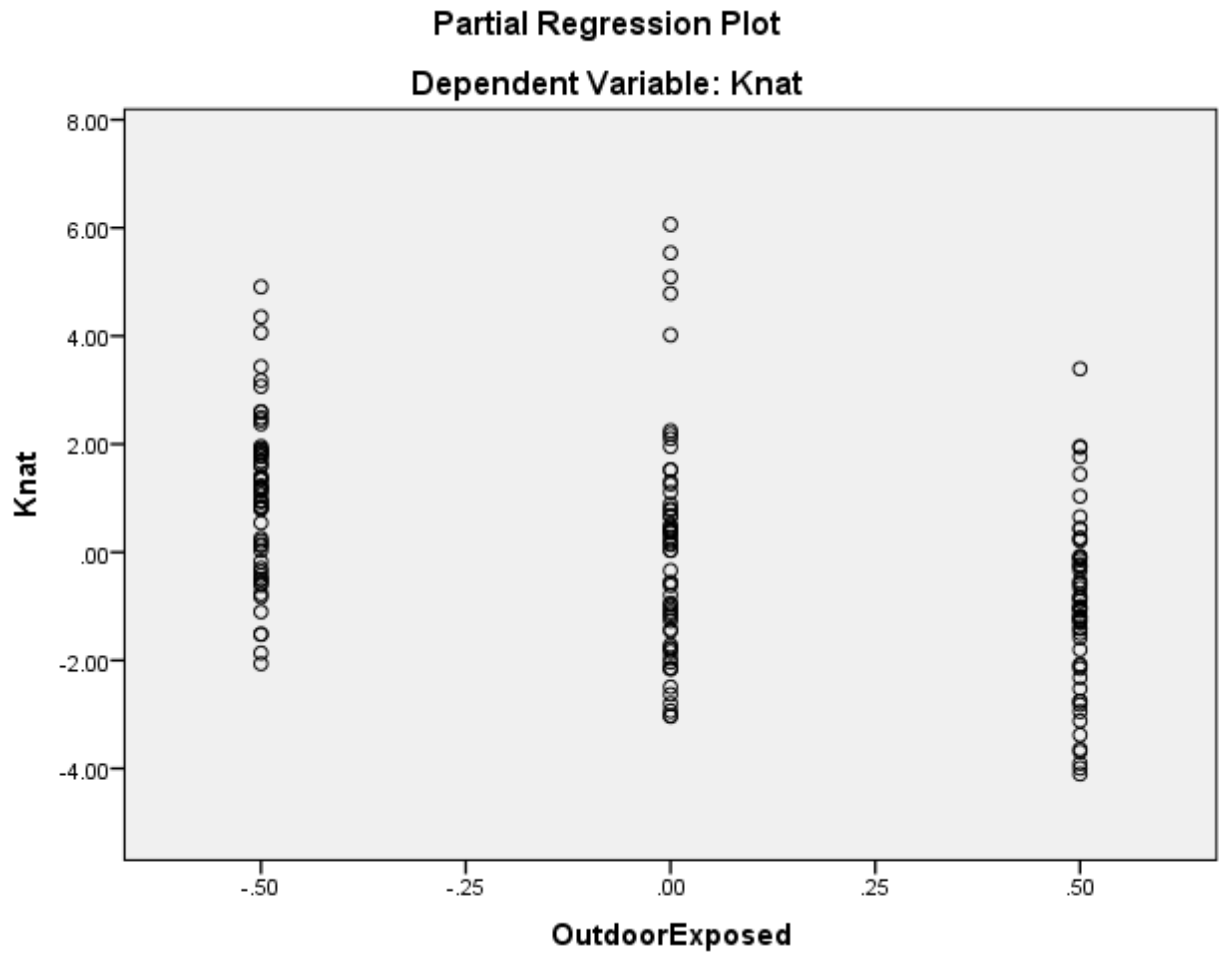


Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat





```

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Knat
  /METHOD=ENTER fc WS OutdoorSheltered OutdoorExposed
  /PARTIALPLOT ALL
  /SCATTERPLOT=(*ZPRED ,*ZRESID)
  /RESIDUALS DURBIN HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

Regression

[DataSet1] H:\PhD Thesis 2014\Results Analysis\Modelling Analysis File 1.sav

Descriptive Statistics

	Mean	Std. Deviation	N
Knat	6.3209	3.73367	180
fc	35.8872	18.56530	180
WS	10.028	3.8857	180
OutdoorSheltered	.33	.473	180
OutdoorExposed	.33	.473	180

Correlations

		Knat	fc	WS	OutdoorSheltered
Pearson Correlation	Knat	1.000	-.777	.747	.266
	fc	-.777	1.000	-.718	.000
	WS	.747	-.718	1.000	.000
	OutdoorSheltered	.266	.000	.000	1.000
	OutdoorExposed	-.329	.000	.000	-.500
Sig. (1-tailed)	Knat	.	.000	.000	.000
	fc	.000	.	.000	.500
	WS	.000	.000	.	.500
	OutdoorSheltered	.000	.500	.500	.
	OutdoorExposed	.000	.500	.500	.000
N	Knat	180	180	180	180
	fc	180	180	180	180
	WS	180	180	180	180
	OutdoorSheltered	180	180	180	180
	OutdoorExposed	180	180	180	180

Correlations

		OutdoorExposed
Pearson Correlation	Knat	-.329
	fc	.000

Sig. (1-tailed)	WS	.000
	OutdoorSheltered	-.500
	OutdoorExposed	1.000
	Knat	.000
	fc	.500
	WS	.500
	OutdoorSheltered	.000
	OutdoorExposed	.
	Knat	.180
	fc	.180
N	WS	.180
	OutdoorSheltered	.180
	OutdoorExposed	.180

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	OutdoorExposed, WS, OutdoorSheltered, fc ^b	.	Enter

a. Dependent Variable: Knat

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.894 ^a	.800	.795	1.68931	1.061

a. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered, fc

b. Dependent Variable: Knat

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1995.903	4	498.976	174.848	.000 ^b
	Residual	499.409	175	2.854		
	Total	2495.312	179			

a. Dependent Variable: Knat

b. Predictors: (Constant), OutdoorExposed, WS, OutdoorSheltered, fc

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	6.491	.791		8.211	.000
	fc	-.100	.010	-.498	-10.244	.000
	WS	.374	.047	.390	8.023	.000
	OutdoorSheltered	1.066	.308	.135	3.457	.001
	OutdoorExposed	-2.069	.308	-.262	-6.708	.000

Coefficients^a

Model		95.0% Confidence Interval for B		Correlations		
		Lower Bound	Upper Bound	Zero-order	Partial	Part
1	(Constant)	4.931	8.052			
	fc	-.119	-.081	-.777	-.612	-.346
	WS	.282	.467	.747	.519	.271
	OutdoorSheltered	.457	1.675	.266	.253	.117
	OutdoorExposed	-2.678	-1.460	-.329	-.452	-.227

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	fc	.485	2.063
	WS	.485	2.063
	OutdoorSheltered	.750	1.333
	OutdoorExposed	.750	1.333

a. Dependent Variable: Knat

Collinearity Diagnostics ^a							
Model	Dimension	Eigenvalue	Condition Index	Variance Proportions			
				(Constant)	fc	WS	OutdoorSheltere d
1	1	3.423	1.000	.00	.01	.00	.02
	2	1.000	1.850	.00	.00	.00	.25
	3	.298	3.387	.00	.22	.05	.12
	4	.262	3.614	.01	.00	.07	.60
	5	.016	14.409	.99	.77	.88	.02

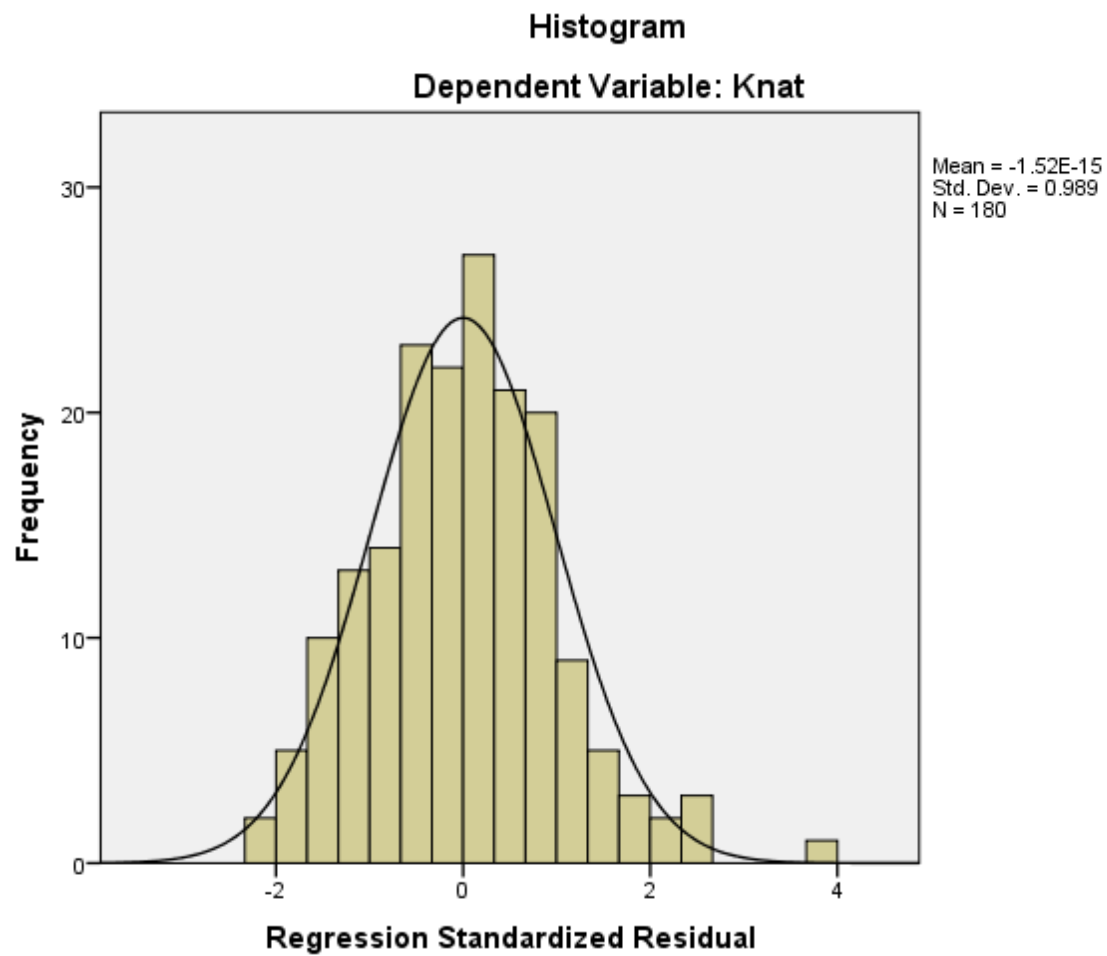
Collinearity Diagnostics ^a		
Model	Dimension	Variance Proportions
		OutdoorExposed
1	1	.02
	2	.25
	3	.12
	4	.60
	5	.02

a. Dependent Variable: Knat

Residuals Statistics ^a					
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-3.4499	14.1051	6.3209	3.33921	180
Residual	-3.44454	6.33666	.00000	1.67033	180
Std. Predicted Value	-2.926	2.331	.000	1.000	180
Std. Residual	-2.039	3.751	.000	.989	180

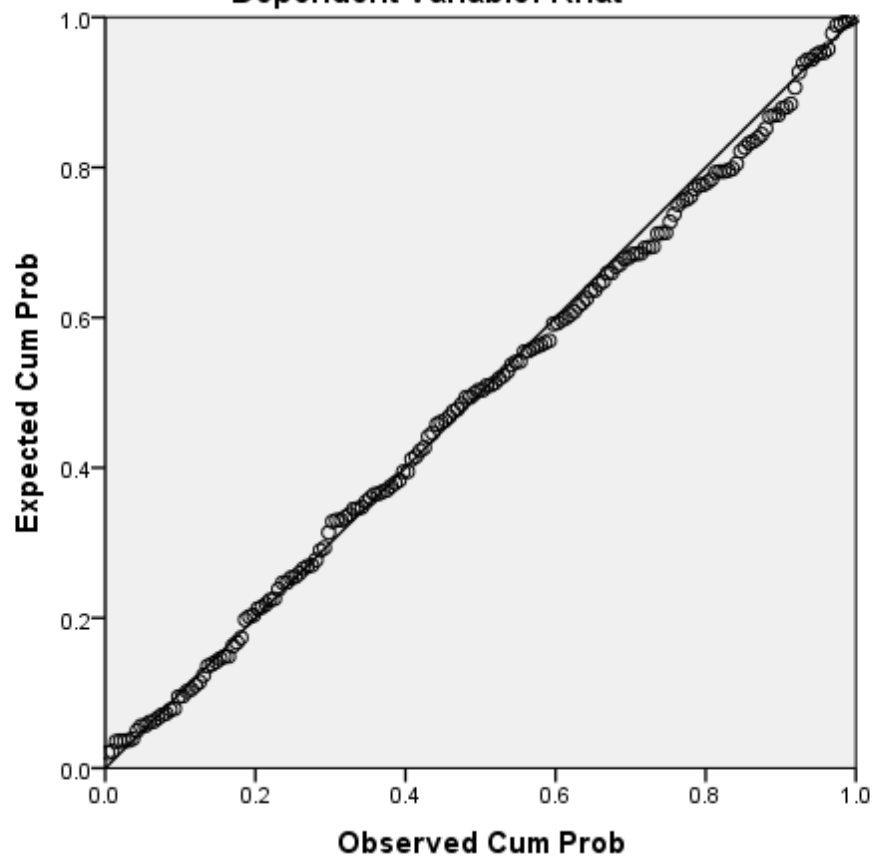
a. Dependent Variable: Knat

Charts



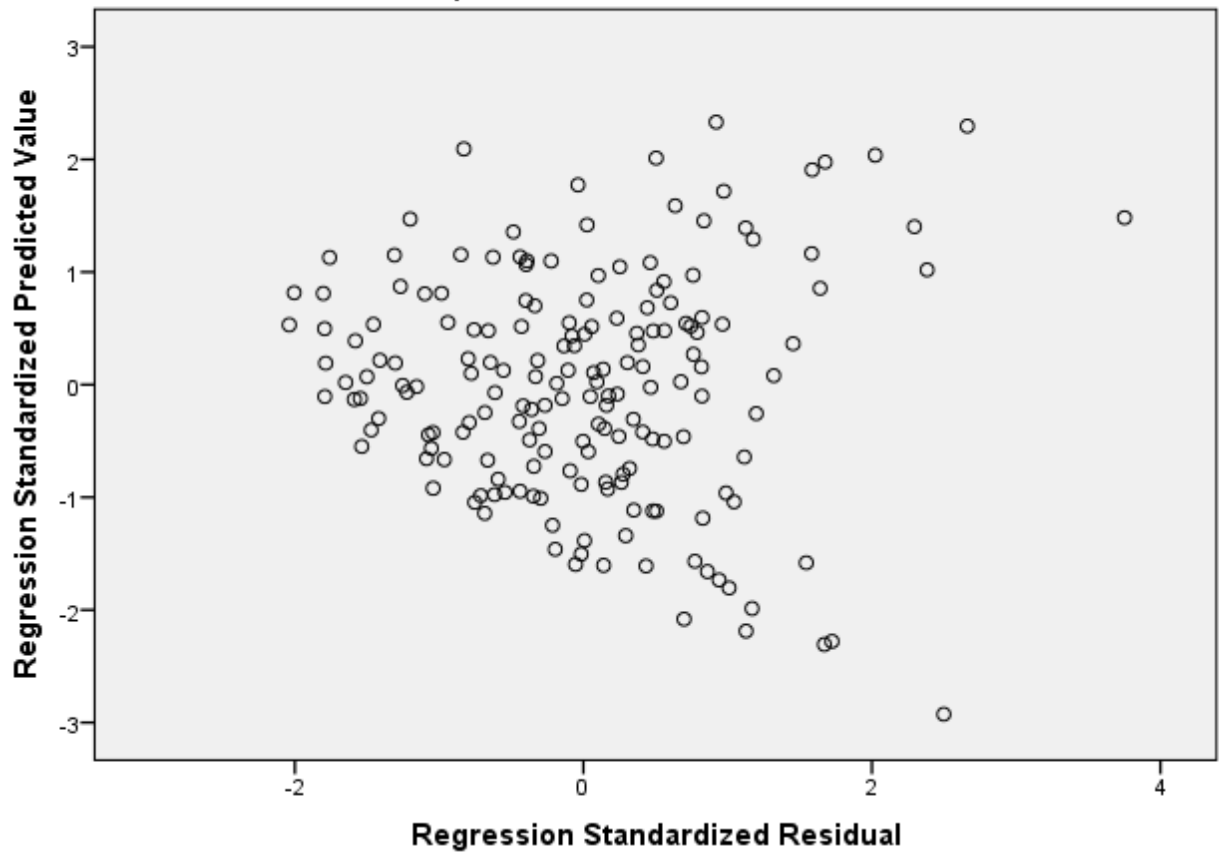
Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Knat

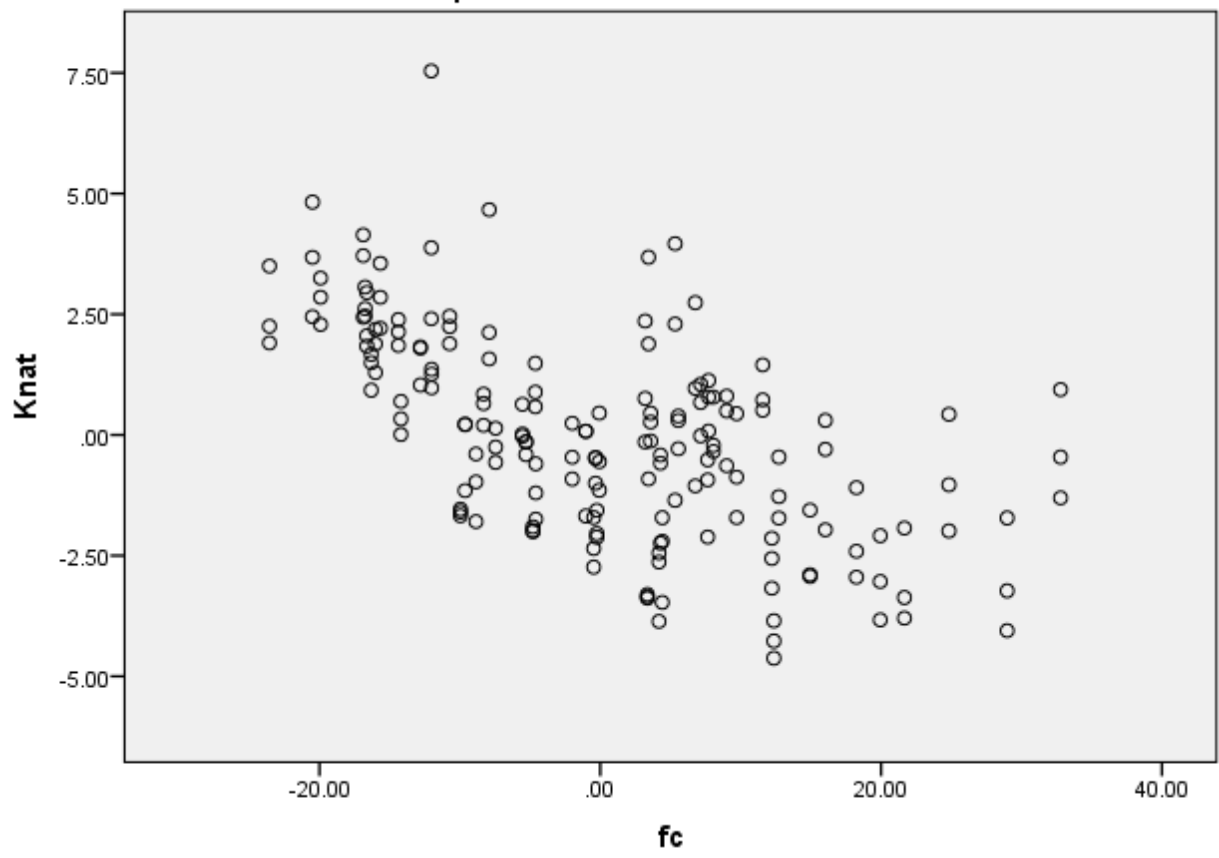


Scatterplot

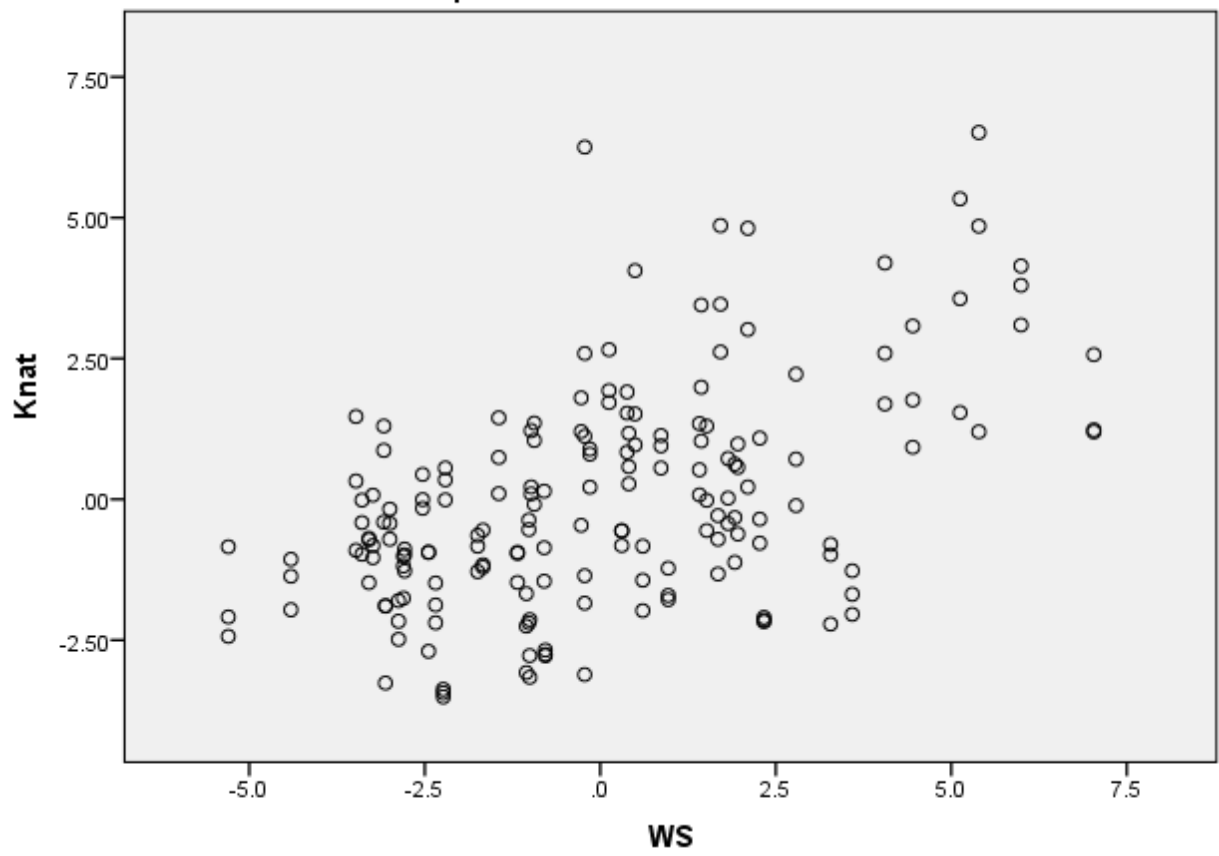
Dependent Variable: Knat



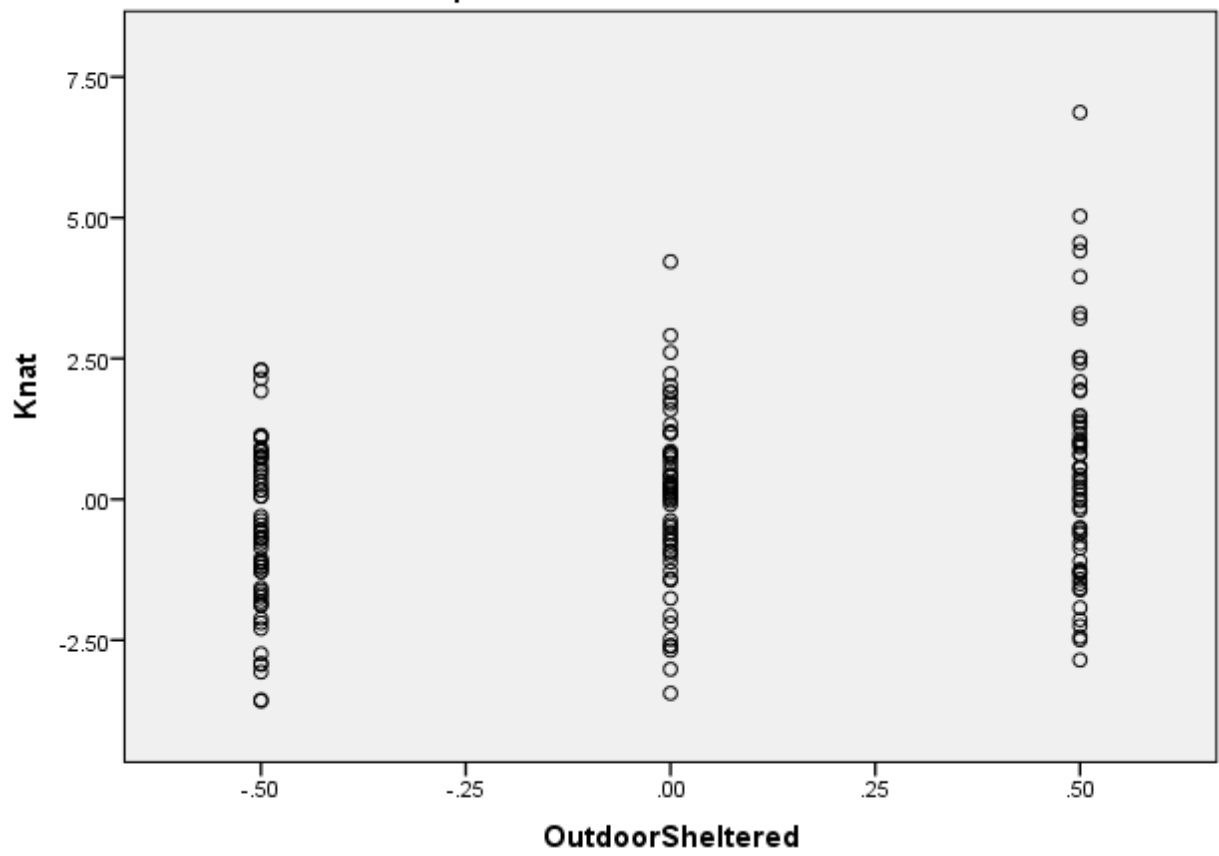
Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat



Partial Regression Plot
Dependent Variable: Knat

