

Regression Analysis of All Comedy Networks

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECin

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:54:58
Comments	

Input	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT ECin
		/METHOD=STEPWISE Nodes
		Edges_d Reciprocity Den_d CC_d
		GD_d Tpaths_d TSpats_d
		AvgPL_d AvgGL_d PL_TpinN
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17

	Memory Required	17520 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

3	R_con	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: ECin

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.549 ^a	.301	.293	.00265842674 7544
2	.617 ^b	.381	.367	.00251626625 0748
3	.655 ^c	.428	.409	.00243161273 3706

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Edges_d

c. Predictors: (Constant), Reciprocity, Edges_d, R_con

d. Dependent Variable: ECin

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	38.360	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	27.078	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			
3	Regression	.000	3	.000	21.742	.000 ^d
	Residual	.001	87	.000		
	Total	.001	90			

a. Dependent Variable: ECin

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Edges_d

d. Predictors: (Constant), Reciprocity, Edges_d, R_con

Coefficients^a

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

1	(Constant)	.012	.000		37.842	.000
	Reciprocity	-.082	.013	-.549	-6.194	.000
2	(Constant)	.014	.001		19.842	.000
	Reciprocity	-.086	.013	-.575	-6.824	.000
	Edges_d	-.193	.057	-.284	-3.368	.001
3	(Constant)	.022	.003		7.315	.000
	Reciprocity	-.078	.012	-.526	-6.309	.000
	Edges_d	-.169	.056	-.249	-3.016	.003
	R_con	-.744	.277	-.225	-2.690	.009

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.992	1.008
	Edges_d	.992	1.008
3	(Constant)		
	Reciprocity	.945	1.058
	Edges_d	.967	1.034
	R_con	.935	1.069

a. Dependent Variable: ECin

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	-.263 ^b	-3.091	.003	-.313	.988	1.012	.988
	Edges_d	-.284 ^b	-3.368	.001	-.338	.992	1.008	.992
	Den_d	.164 ^b	1.837	.070	.192	.956	1.046	.956
	CC_d	.102 ^b	1.052	.296	.111	.827	1.209	.827
	GD_d	-.085 ^b	-.927	.357	-.098	.931	1.074	.931
	Tpaths_d	-.256 ^b	-3.019	.003	-.306	.999	1.001	.999
	TSpaths_d	-.255 ^b	-3.000	.004	-.305	.999	1.001	.999
	AvgPL_d	-.146 ^b	-1.605	.112	-.169	.938	1.066	.938
	AvgGL_d	-.117 ^b	-1.304	.196	-.138	.974	1.026	.974
	PL_TpinN	-.082 ^b	-.910	.365	-.097	.967	1.034	.967
	PL_TSpinN	-.034 ^b	-.372	.711	-.040	.929	1.076	.929
	S_con	.047 ^b	.475	.636	.051	.823	1.215	.823
	R_con	-.265 ^b	-3.068	.003	-.311	.959	1.042	.959
	SMSP_d	.101 ^b	1.038	.302	.110	.824	1.213	.824
2	Nodes	.965 ^c	1.587	.116	.168	.019	53.438	.019
	Den_d	-.269 ^c	-1.713	.090	-.181	.280	3.573	.280

	CC_d	.108 ^c	1.176	.243	.125	.827	1.209	.821
	GD_d	-.083 ^c	-.959	.340	-.102	.931	1.074	.924
	Tpaths_d	-.070 ^c	-.461	.646	-.049	.311	3.220	.308
	TSpaths_d	-.054 ^c	-.341	.734	-.037	.282	3.552	.279
	AvgPL_d	-.081 ^c	-.908	.366	-.097	.885	1.129	.885
	AvgGL_d	-.080 ^c	-.937	.351	-.100	.957	1.044	.957
	PL_TpinN	-.083 ^c	-.972	.334	-.104	.967	1.034	.959
	PL_TSpinN	-.071 ^c	-.813	.418	-.087	.915	1.093	.915
	S_con	.074 ^c	.801	.426	.086	.817	1.224	.812
	R_con	-.225 ^c	-2.690	.009	-.277	.935	1.069	.935
	SMSP_d	.108 ^c	1.166	.247	.124	.824	1.214	.817
3	Nodes	.735 ^d	1.229	.222	.131	.018	54.755	.018
	Den_d	-.263 ^d	-1.735	.086	-.184	.280	3.574	.280
	CC_d	.121 ^d	1.366	.176	.146	.825	1.213	.795
	GD_d	-.005 ^d	-.053	.958	-.006	.817	1.225	.817
	Tpaths_d	.076 ^d	.490	.625	.053	.273	3.668	.273
	TSpaths_d	.076 ^d	.474	.637	.051	.256	3.904	.256
	AvgPL_d	.001 ^d	.010	.992	.001	.775	1.290	.775
	AvgGL_d	-.011 ^d	-.127	.899	-.014	.862	1.160	.842
	PL_TpinN	.011 ^d	.116	.908	.013	.801	1.248	.775
	PL_TSpinN	.013 ^d	.138	.890	.015	.795	1.257	.795
	S_con	.167 ^d	1.788	.077	.189	.736	1.358	.736
	SMSP_d	.122 ^d	1.367	.175	.146	.821	1.218	.792

a. Dependent Variable: ECin

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, Edges_d

d. Predictors in the Model: (Constant), Reciprocity, Edges_d, R_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Edges_d
1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.222	1.000	.03	.07	.03
	2	.703	1.777	.01	.89	.03
	3	.075	5.442	.96	.04	.95
3	1	3.167	1.000	.00	.03	.01
	2	.731	2.082	.00	.90	.01
	3	.098	5.685	.01	.04	.97
	4	.004	29.641	.99	.03	.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		R_con

1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.01
	4	.99

a. Dependent Variable: ECin

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00322218774 8179	.01336242724 2100	.01098901098 9011	.00207008010 7169
Std. Predicted Value	-3.752	1.147	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00437622610 4796	.01338341925 2932	.01098231510 1205	.00203062094 2524
Residual	- .00791014730 9303	.00414928235 1136	.00000000000 0000	.00239074238 2015

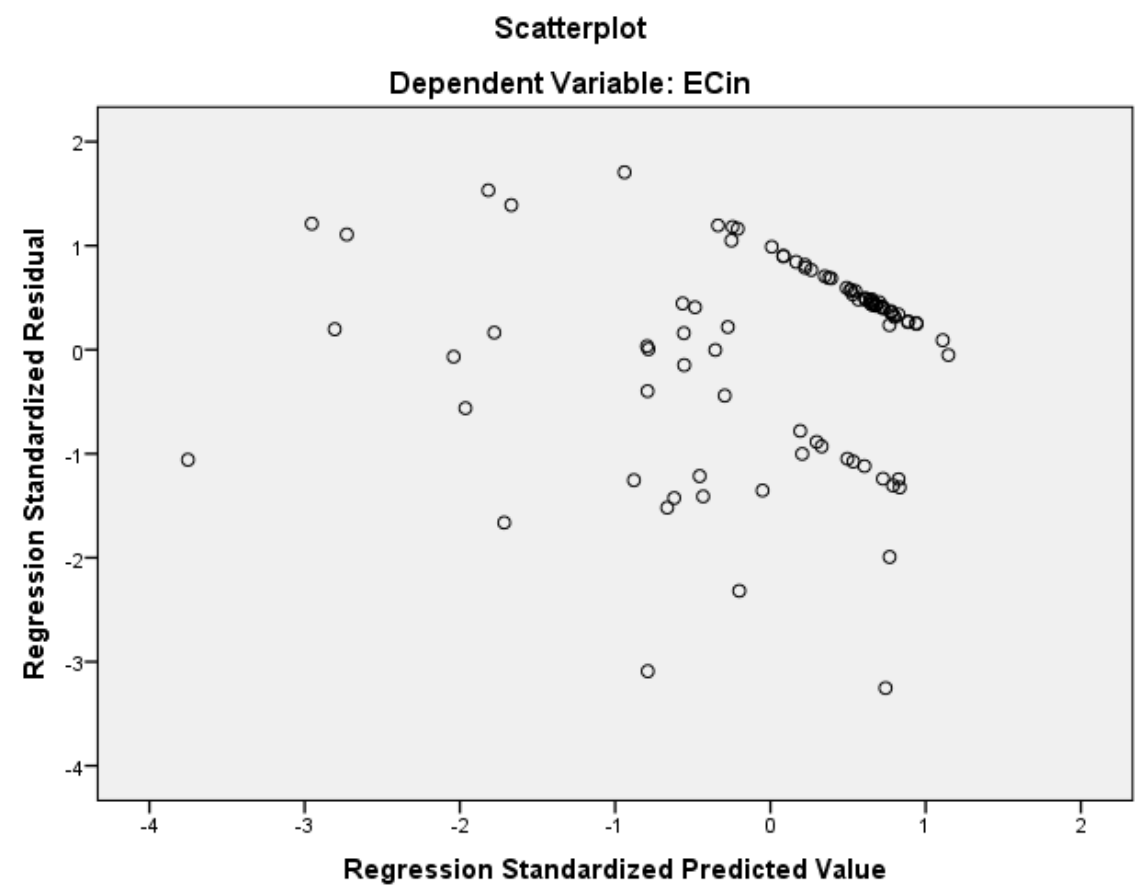
Std. Residual	-3.253	1.706	.000	.983
Stud. Residual	-3.282	1.790	.002	1.011
Deleted Residual	-			
	.00805330928	.00456633465	.00000669588	.00255255153
	4151	3646	7806	5816
Stud. Deleted Residual	-3.486	1.813	-.005	1.030
Mahal. Distance	.302	45.063	2.967	6.489
Cook's Distance	.000	.601	.019	.073
Centered Leverage Value	.003	.501	.033	.072

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECin

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCinN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:55:28	
Comments		
Input	Active Dataset	DataSet7
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	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.14
	Elapsed Time	00:00:00.17
	Memory Required	17552 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Created or Modified	COO_10	Cook's Distance
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Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.553 ^a	.306	.298	.017421998045165
2	.583 ^b	.340	.325	.017083275920440

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, R_con

c. Dependent Variable: PL_EVCinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.012	1	.012	39.213	.000 ^b
	Residual	.027	89	.000		
	Total	.039	90			
2	Regression	.013	2	.007	22.674	.000 ^c
	Residual	.026	88	.000		
	Total	.039	90			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.005	.002		2.449	.016
	Reciprocity	.541	.086	.553	6.262	.000
2	(Constant)	-.040	.021		-1.886	.063
	Reciprocity	.504	.087	.515	5.824	.000
	R_con	4.100	1.919	.189	2.136	.035

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.959	1.042
	R_con	.959	1.042

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.167 ^b	1.913	.059	.200	.988	1.012
	Edges_d	.172 ^b	1.969	.052	.205	.992	1.008
	Den_d	-.064 ^b	-.707	.482	-.075	.956	1.046
	CC_d	-.059 ^b	-.610	.543	-.065	.827	1.209
	GD_d	.030 ^b	.324	.747	.034	.931	1.074
	Tpaths_d	.157 ^b	1.797	.076	.188	.999	1.001
	TSpaths_d	.142 ^b	1.621	.109	.170	.999	1.001
	AvgPL_d	.109 ^b	1.194	.236	.126	.938	1.066
	AvgGL_d	.061 ^b	.684	.496	.073	.974	1.026
	PL_TpinN	.134 ^b	1.500	.137	.158	.967	1.034
	PL_TSpinN	.076 ^b	.832	.408	.088	.929	1.076
	S_con	.196 ^b	2.045	.044	.213	.823	1.215
	R_con	.189 ^b	2.136	.035	.222	.959	1.042
	SMSP_d	-.065 ^b	-.666	.507	-.071	.824	1.213
2	Nodes	.145 ^c	1.664	.100	.176	.970	1.031
	Edges_d	.146 ^c	1.677	.097	.177	.967	1.034
	Den_d	-.041 ^c	-.457	.649	-.049	.941	1.062

CC_d	-.071 ^c	-.742	.460	-.079	.825	1.212
GD_d	-.042 ^c	-.435	.665	-.047	.819	1.221
Tpaths_d	.108 ^c	1.185	.239	.126	.894	1.118
TSpaths_d	.096 ^c	1.063	.291	.113	.914	1.094
AvgPL_d	.043 ^c	.441	.661	.047	.805	1.242
AvgGL_d	.000 ^c	-.005	.996	-.001	.868	1.152
PL_TpinN	.068 ^c	.708	.481	.076	.806	1.241
PL_TSpinN	.014 ^c	.141	.888	.015	.825	1.212
S_con	.145 ^c	1.445	.152	.153	.737	1.356
SMSP_d	-.077 ^c	-.809	.421	-.086	.821	1.218

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.988
	Edges_d	.992
	Den_d	.956
	CC_d	.827
	GD_d	.931
	Tpaths_d	.999
	TSpaths_d	.999
	AvgPL_d	.938

	AvgGL_d	.974
	PL_TpinN	.967
	PL_TSpinN	.929
	S_con	.823
	R_con	.959
	SMSP_d	.824
2	Nodes	.941
	Edges_d	.935
	Den_d	.908
	CC_d	.806
	GD_d	.819
	Tpaths_d	.859
	TSpaths_d	.878
	AvgPL_d	.805
	AvgGL_d	.855
	PL_TpinN	.800
	PL_TSpinN	.825
	S_con	.737
	SMSP_d	.803

a. Dependent Variable: PL_EVCinN

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, R_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	R_con
1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.327	1.000	.00	.06	.00
	2	.670	1.864	.00	.90	.00
	3	.004	25.365	1.00	.03	1.00

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00697826081 8869	.05131877213 7165	.01098901098 9011	.01212634403 7393
Std. Predicted Value	-1.482	3.326	.000	1.000
Standard Error of Predicted Value	.002	.008	.003	.001
Adjusted Predicted Value	- .00795166194 4389	.05159240588 5458	.01088452190 2949	.01219047553 4662

Residual	- .04493211209 7740	.05333609133 9588	.00000000000 0000	.01689239533 8108
Std. Residual	-2.630	3.122	.000	.989
Stud. Residual	-2.779	3.170	.003	1.017
Deleted Residual	- .05014738067 9846	.05499447509 6464	.00010448908 6062	.01792217892 4166
Stud. Deleted Residual	-2.893	3.349	.011	1.048
Mahal. Distance	.081	18.357	1.978	3.343
Cook's Distance	.000	.688	.022	.081
Centered Leverage Value	.001	.204	.022	.037

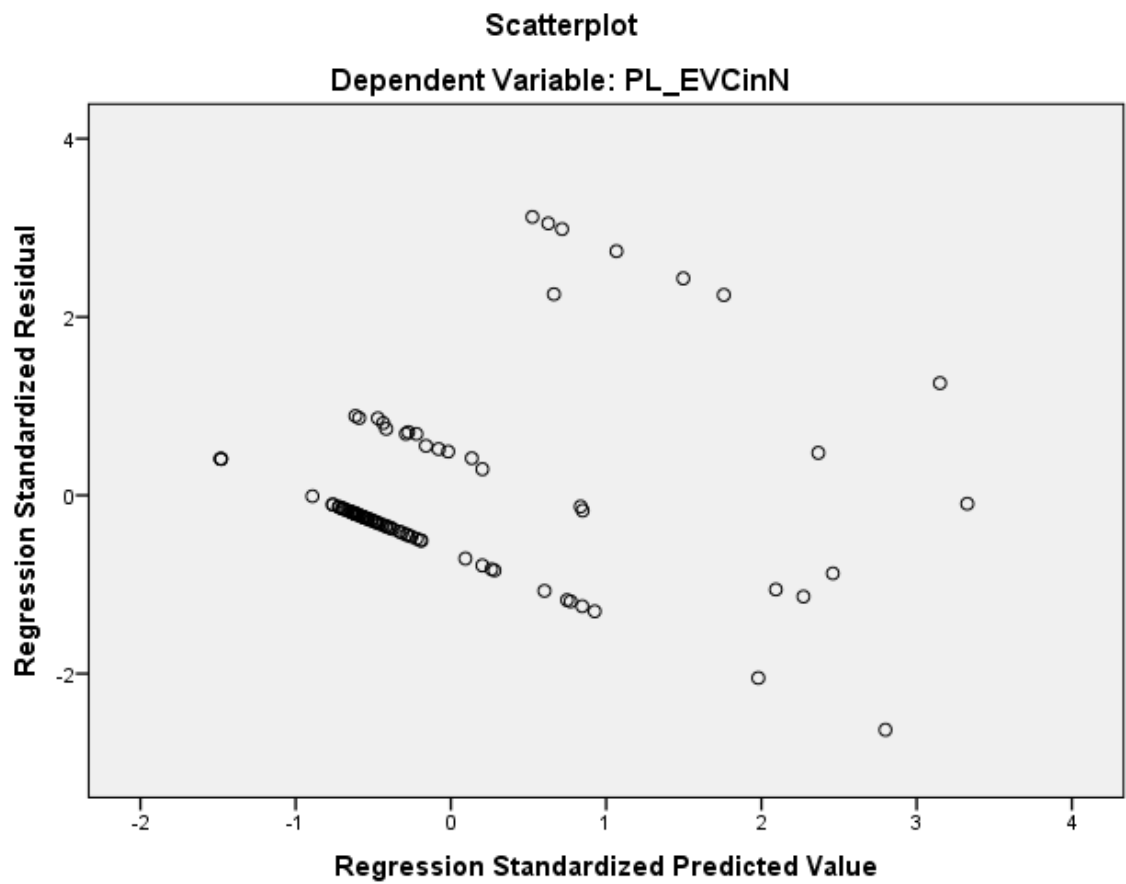
Residuals Statistics^a

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Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TpinN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:55:48
Comments	
Input	Active Dataset DataSet7

	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
	Missing Value Handling	<p>Definition of Missing</p> <p>User-defined missing values are treated as missing.</p> <p>Cases Used</p> <p>Statistics are based on cases with no missing values for any variable used.</p>
Syntax		<p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT EVCin_TpinN</p> <p>/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17

	Memory Required	17600 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_11	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCin_TpinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.327 ^a	.107	.097	.005614758890914
2	.454 ^b	.206	.188	.005322374390788

a. Predictors: (Constant), Edges_d

b. Predictors: (Constant), Edges_d, Reciprocity

c. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.643	.002 ^b
	Residual	.003	89	.000		
	Total	.003	90			
2	Regression	.001	2	.000	11.446	.000 ^c
	Residual	.002	88	.000		
	Total	.003	90			

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), Edges_d

c. Predictors: (Constant), Edges_d, Reciprocity

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.016	.002		10.242	.000
	Edges_d	-.416	.127	-.327	-3.262	.002
2	(Constant)	.017	.001		11.303	.000
	Edges_d	-.453	.121	-.356	-3.731	.000
	Reciprocity	-.088	.027	-.317	-3.324	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Edges_d	1.000	1.000
2	(Constant)		
	Edges_d	.992	1.008
	Reciprocity	.992	1.008

a. Dependent Variable: EVCin_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.537 ^b	.739	.462	.079	.019	52.286
	Reciprocity	-.317 ^b	-3.324	.001	-.334	.992	1.008
	Den_d	-.136 ^b	-.737	.463	-.078	.298	3.360
	CC_d	-.030 ^b	-.300	.765	-.032	1.000	1.000
	GD_d	-.006 ^b	-.062	.951	-.007	1.000	1.000
	Tpaths_d	.042 ^b	.234	.816	.025	.321	3.111
	TSpaths_d	.003 ^b	.018	.986	.002	.284	3.523
	AvgPL_d	.038 ^b	.367	.714	.039	.958	1.044
	AvgGL_d	-.007 ^b	-.067	.947	-.007	.987	1.013
	PL_TpinN	.036 ^b	.356	.723	.038	1.000	1.000
	PL_TSpinN	.019 ^b	.186	.853	.020	.980	1.021
	S_con	-.010 ^b	-.099	.922	-.011	.998	1.002
	R_con	.112 ^b	1.106	.272	.117	.982	1.019
	SMSP_d	-.031 ^b	-.310	.757	-.033	1.000	1.000
2	Nodes	.206 ^c	.295	.768	.032	.019	53.438
	Den_d	.006 ^c	.033	.974	.003	.280	3.573

CC_d	.122 ^c	1.171	.245	.125	.827	1.209
GD_d	.082 ^c	.833	.407	.089	.931	1.074
Tpaths_d	.149 ^c	.872	.386	.093	.311	3.220
TSpaths_d	.057 ^c	.317	.752	.034	.282	3.552
AvgPL_d	.137 ^c	1.361	.177	.144	.885	1.129
AvgGL_d	.050 ^c	.509	.612	.055	.957	1.044
PL_TpinN	.096 ^c	.995	.322	.106	.967	1.034
PL_TSpinN	.108 ^c	1.087	.280	.116	.915	1.093
S_con	.152 ^c	1.460	.148	.155	.817	1.224
R_con	.190 ^c	1.964	.053	.206	.935	1.069
SMSP_d	.123 ^c	1.175	.243	.125	.824	1.214

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.019
	Reciprocity	.992
	Den_d	.298
	CC_d	1.000
	GD_d	1.000
	Tpaths_d	.321
	TSpaths_d	.284

	AvgPL_d	.958
	AvgGL_d	.987
	PL_TpinN	1.000
	PL_TSpinN	.980
	S_con	.998
	R_con	.982
	SMSP_d	1.000
2	Nodes	.019
	Den_d	.280
	CC_d	.821
	GD_d	.924
	Tpaths_d	.308
	TSpaths_d	.279
	AvgPL_d	.885
	AvgGL_d	.957
	PL_TpinN	.959
	PL_TSpinN	.915
	S_con	.812
	R_con	.935
	SMSP_d	.817

a. Dependent Variable: EVCin_TpinN

b. Predictors in the Model: (Constant), Edges_d

c. Predictors in the Model: (Constant), Edges_d, Reciprocity

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Edges_d	Reciprocity
1	1	1.922	1.000	.04	.04	
	2	.078	4.959	.96	.96	
2	1	2.222	1.000	.03	.03	.07
	2	.703	1.777	.01	.03	.89
	3	.075	5.442	.96	.95	.04

a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00135248980 9506	.01461676042 5270	.01098901098 9011	.00268423323 5354
Std. Predicted Value	-4.598	1.352	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000

Adjusted Predicted Value	- .00478821899 7419	.01473527960 4793	.01095609132 1439	.00288245414 9191
Residual	- .01348653528 8393	.00695946067 5716	.00000000000 0000	.00526290465 3962
Std. Residual	-2.534	1.308	.000	.989
Stud. Residual	-2.561	1.334	.003	1.007
Deleted Residual	- .01377141103 1485	.00898591242 7306	.00003291966 7572	.00547606223 1136
Stud. Deleted Residual	-2.646	1.340	-.004	1.020
Mahal. Distance	.268	33.422	1.978	4.549
Cook's Distance	.000	.363	.014	.041
Centered Leverage Value	.003	.371	.022	.051

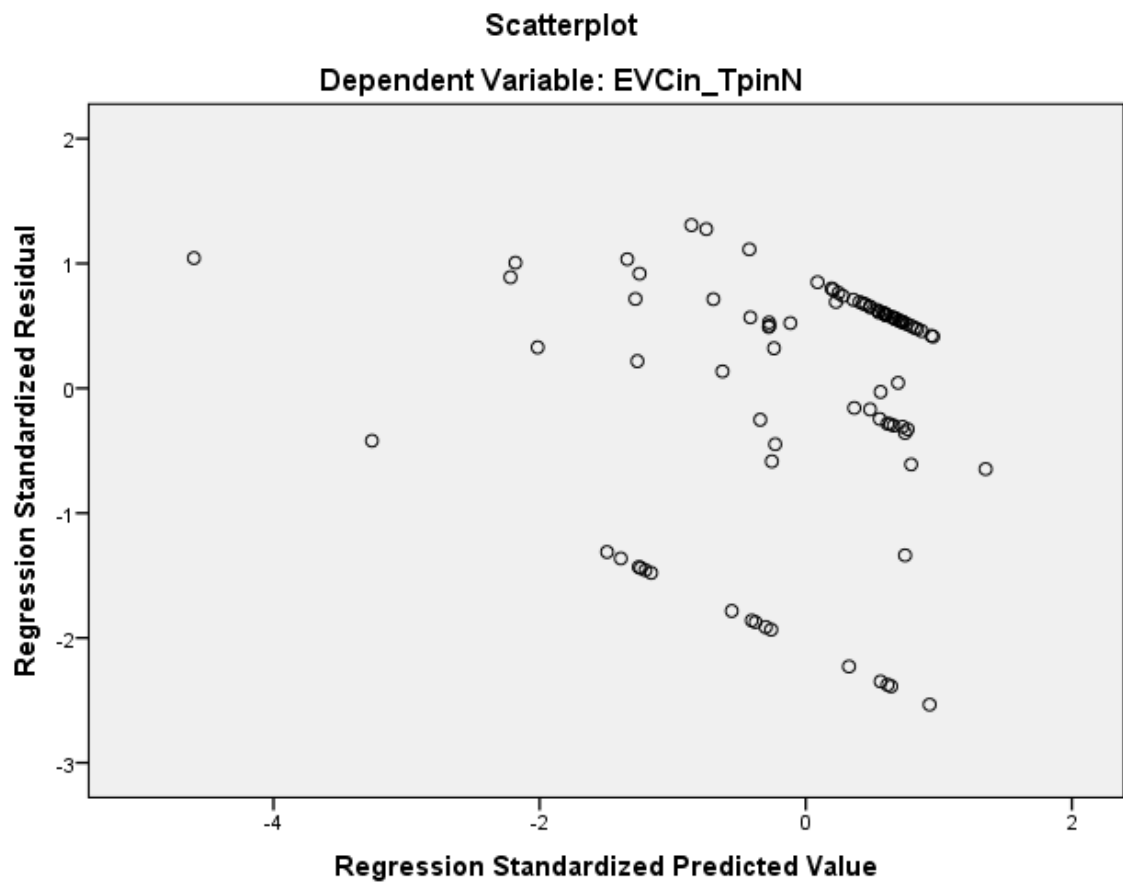
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91

Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCin_TpinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TspinN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCin_TSpinN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpins_d AvgPL_d AvgGL_d PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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Variables Created or Modified	COO_12	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCin_TSpinN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.336 ^a	.113	.103	.00562461766 5871
2	.466 ^b	.218	.200	.00531289726 4771

a. Predictors: (Constant), Edges_d

b. Predictors: (Constant), Edges_d, Reciprocity

c. Dependent Variable: EVCin_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.344	.001 ^b
	Residual	.003	89	.000		
	Total	.003	90			
2	Regression	.001	2	.000	12.232	.000 ^c
	Residual	.002	88	.000		
	Total	.003	90			

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), Edges_d

c. Predictors: (Constant), Edges_d, Reciprocity

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.016	.002		10.327	.000
	Edges_d	-.430	.128	-.336	-3.368	.001
2	(Constant)	.017	.001		11.455	.000
	Edges_d	-.468	.121	-.366	-3.864	.000
	Reciprocity	-.091	.026	-.325	-3.428	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Edges_d	1.000	1.000
2	(Constant)		
	Edges_d	.992	1.008
	Reciprocity	.992	1.008

a. Dependent Variable: EVCin_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.540 ^b	.746	.457	.079	.019	52.286

	Reciprocity	-.325 ^b	-3.428	.001	-.343	.992	1.008
	Den_d	-.149 ^b	-.810	.420	-.086	.298	3.360
	CC_d	-.042 ^b	-.423	.673	-.045	1.000	1.000
	GD_d	-.014 ^b	-.136	.892	-.015	1.000	1.000
	Tpaths_d	.034 ^b	.191	.849	.020	.321	3.111
	TSpaths_d	.000 ^b	.002	.998	.000	.284	3.523
	AvgPL_d	.029 ^b	.287	.775	.031	.958	1.044
	AvgGL_d	-.012 ^b	-.120	.905	-.013	.987	1.013
	PL_TpinN	.032 ^b	.314	.754	.033	1.000	1.000
	PL_TSpinN	.018 ^b	.173	.863	.018	.980	1.021
	S_con	-.018 ^b	-.176	.860	-.019	.998	1.002
	R_con	.103 ^b	1.018	.311	.108	.982	1.019
	SMSP_d	-.043 ^b	-.433	.666	-.046	1.000	1.000
	2						
	Nodes	.201 ^c	.291	.772	.031	.019	53.438
	Den_d	-.004 ^c	-.023	.981	-.003	.280	3.573
	CC_d	.111 ^c	1.072	.287	.114	.827	1.209
	GD_d	.076 ^c	.779	.438	.083	.931	1.074
	Tpaths_d	.143 ^c	.846	.400	.090	.311	3.220
	TSpaths_d	.055 ^c	.309	.758	.033	.282	3.552
	AvgPL_d	.130 ^c	1.302	.196	.138	.885	1.129
	AvgGL_d	.045 ^c	.470	.640	.050	.957	1.044
	PL_TpinN	.093 ^c	.971	.334	.103	.967	1.034

PL_TSpinN	.108 ^c	1.102	.274	.117	.915	1.093
S_con	.147 ^c	1.415	.161	.150	.817	1.224
R_con	.182 ^c	1.893	.062	.199	.935	1.069
SMSP_d	.112 ^c	1.077	.285	.115	.824	1.214

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.019
	Reciprocity	.992
	Den_d	.298
	CC_d	1.000
	GD_d	1.000
	Tpaths_d	.321
	TSpaths_d	.284
	AvgPL_d	.958
	AvgGL_d	.987
	PL_TpinN	1.000
	PL_TSpinN	.980
	S_con	.998
	R_con	.982
	SMSP_d	1.000

2	Nodes	.019
	Den_d	.280
	CC_d	.821
	GD_d	.924
	Tpaths_d	.308
	TSpaths_d	.279
	AvgPL_d	.885
	AvgGL_d	.957
	PL_TpinN	.959
	PL_TSpinN	.915
	S_con	.812
	R_con	.935
	SMSP_d	.817

a. Dependent Variable: EVCin_TSpinN

b. Predictors in the Model: (Constant), Edges_d

c. Predictors in the Model: (Constant), Edges_d, Reciprocity

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Edges_d	Reciprocity

1	1	1.922	1.000	.04	.04	
	2	.078	4.959	.96	.96	
2	1	2.222	1.000	.03	.03	.07
	2	.703	1.777	.01	.03	.89
	3	.075	5.442	.96	.95	.04

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00176889332 9427	.01473530381 9180	.01098901098 9011	.00276997368 7017
Std. Predicted Value	-4.606	1.352	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	- .00487297307 6999	.01485669054 0910	.01095856334 4330	.00295033558 9952
Residual	- .01356683578 3422	.00707240123 3017	.00000000000 0000	.00525353342 0945
Std. Residual	-2.554	1.331	.000	.989
Stud. Residual	-2.580	1.358	.002	1.007

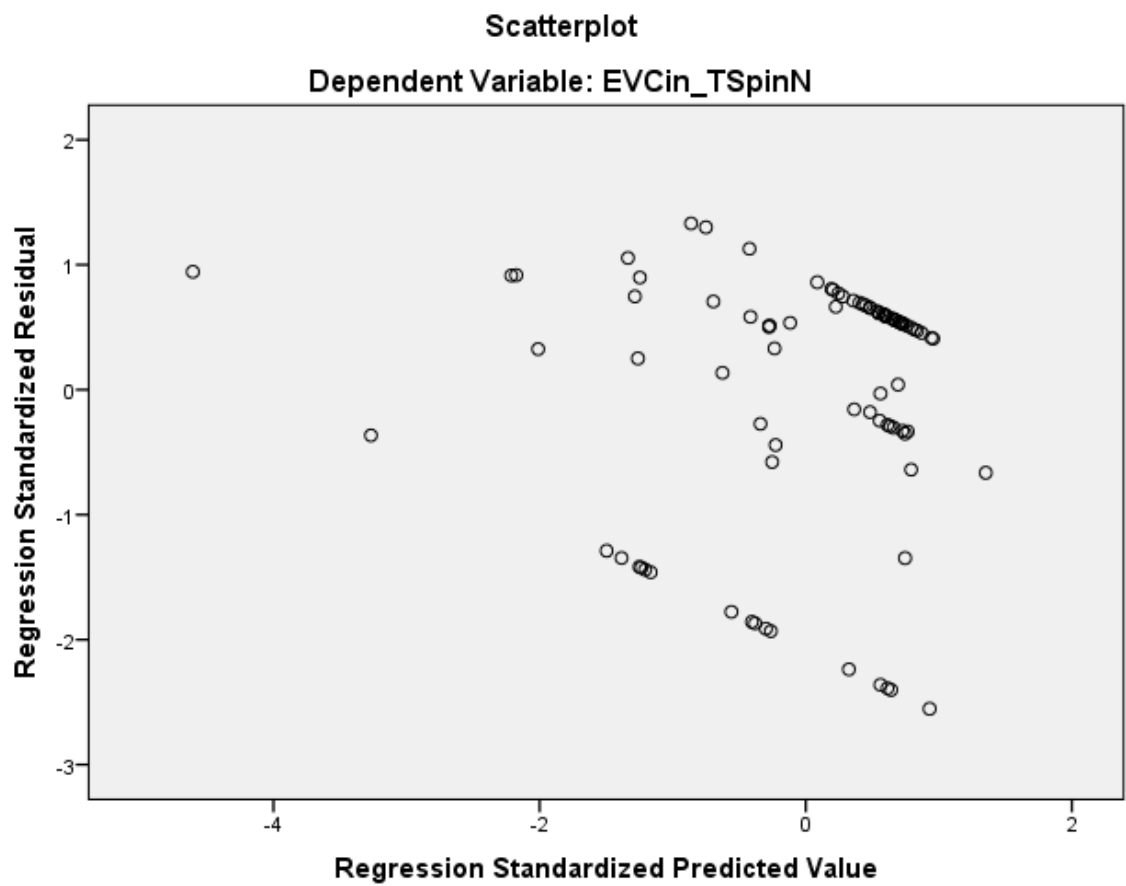
Deleted Residual	- .01385340746 4921	.00811850558 9664	.00003044764 4681	.00545490413 8152
Stud. Deleted Residual	-2.669	1.365	-.004	1.019
Mahal. Distance	.268	33.422	1.978	4.549
Cook's Distance	.000	.298	.014	.034
Centered Leverage Value	.003	.371	.022	.051

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCin_TSpinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECin

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

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Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECin /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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Variables Created or Modified	COO_1	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECin

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.273 ^a	.075	.064	.00305924100 2711

a. Predictors: (Constant), AvgPL_d

b. Dependent Variable: ECin

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.173	.009 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: ECin

b. Predictors: (Constant), AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.015	.002		9.062	.000
	AvgPL_d	-.409	.153	-.273	-2.678	.009

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000

a. Dependent Variable: ECin

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.065 ^b	-.459	.648	-.049	.518	1.930
	Tpaths_d	-.160 ^b	-1.165	.247	-.123	.546	1.832
	TSpaths_d	-.119 ^b	-.950	.345	-.101	.659	1.517
	AvgGL_d	.203 ^b	.902	.369	.096	.205	4.869

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.518
	Tpaths_d	.546
	TSpaths_d	.659
	AvgGL_d	.205

a. Dependent Variable: ECin

b. Predictors in the Model: (Constant), AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgPL_d
1	1	1.982	1.000	.01	.01
	2	.018	10.562	.99	.99

a. Dependent Variable: ECin

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00616540713 2357	.01148597802 9668	.01098901098 9011	.00086366293 7250
Std. Predicted Value	-5.585	.575	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00434985384 3451	.01151628140 3601	.01097935931 4138	.00095299256 2984
Residual	- .00875213369 7271	.00398951815 4413	.00000000000 0000	.00304219774 4737
Std. Residual	-2.861	1.304	.000	.994
Stud. Residual	-2.880	1.337	.001	1.011
Deleted Residual	- .00887052249 1634	.00507739325 9853	.00000965167 4873	.00314957621 7866

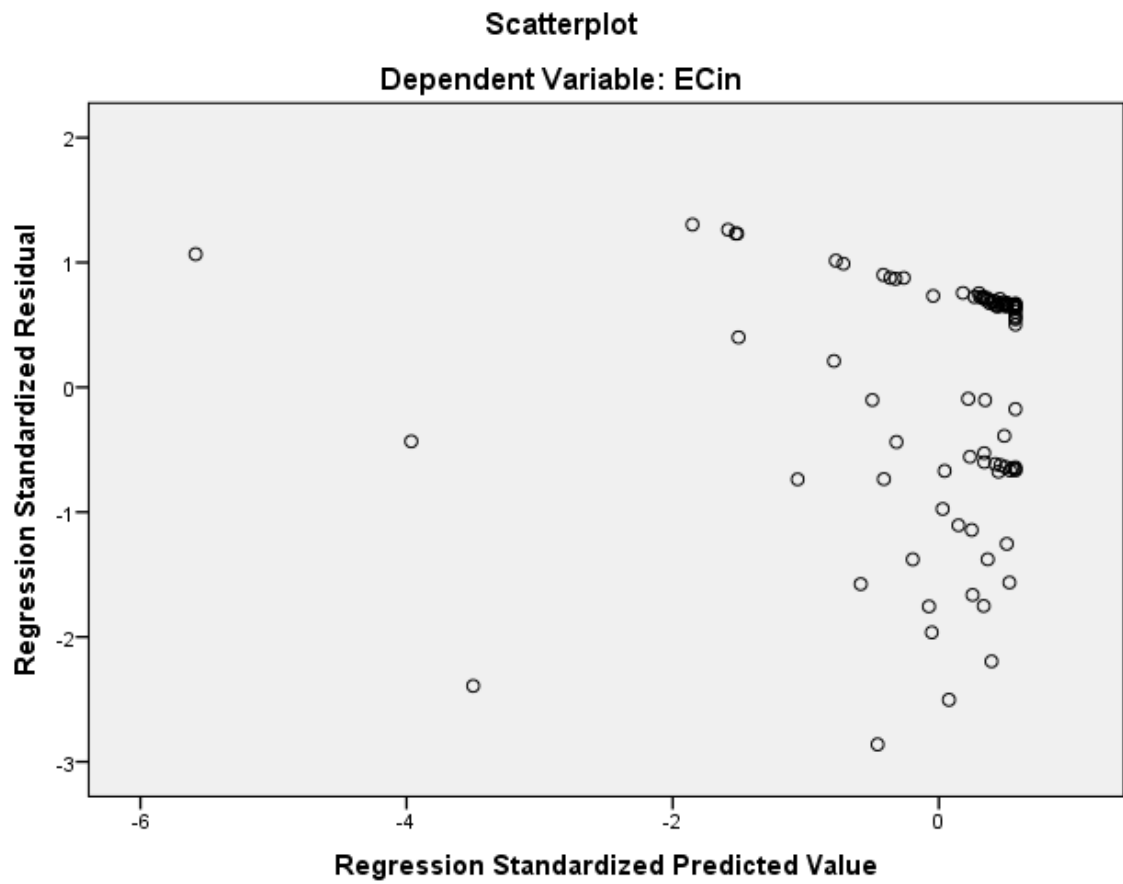
Stud. Deleted Residual	-3.008	1.343	-.004	1.023
Mahal. Distance	.001	31.193	.989	3.831
Cook's Distance	.000	.578	.019	.079
Centered Leverage Value	.000	.347	.011	.043

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECin

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCinN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.	
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCinN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
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Variables Created or Modified	COO_2	Cook's Distance	

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.239 ^a	.057	.047	.02030242461 0612

a. Predictors: (Constant), AvgPL_d

b. Dependent Variable: PL_EVCinN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.002	1	.002	5.413	.022 ^b
	Residual	.037	89	.000		
	Total	.039	90			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), AvgPL_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-.015	.011		-1.316	.191
AvgPL_d	2.358	1.014	.239	2.327	.022

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1 (Constant)			
AvgPL_d		1.000	1.000

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.013 ^b	.090	.929	.010	.518	1.930
	Tpaths_d	.020 ^b	.145	.885	.015	.546	1.832
	TSpaths_d	-.022 ^b	-.172	.864	-.018	.659	1.517
	AvgGL_d	-.316 ^b	-1.397	.166	-.147	.205	4.869

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.518	
	Tpaths_d	.546	
	TSpaths_d	.659	
	AvgGL_d	.205	

a. Dependent Variable: PL_EVCinN

b. Predictors in the Model: (Constant), AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

		Index	(Constant)	AvgPL_d
1	1	1.982	1.000	.01
	2	.018	10.562	.99

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00812387652 6952	.03879823908 2098	.01098901098 9011	.00497922348 5088
Std. Predicted Value	-.575	5.585	.000	1.000
Standard Error of Predicted Value	.002	.012	.003	.001
Adjusted Predicted Value	.00719255208 9691	.04983378946 7812	.01110830884 2212	.00585870463 1572
Residual	- .03072885237 6342	.06256248801 9466	.00000000000 0000	.02018931830 0965
Std. Residual	-1.514	3.082	.000	.994
Stud. Residual	-1.677	3.104	-.003	1.012
Deleted Residual	- .03773282468 3189	.06349381059 4082	- .00011929785 3201	.02094529604 4813
Stud. Deleted Residual	-1.695	3.269	.009	1.043
Mahal. Distance	.001	31.193	.989	3.831

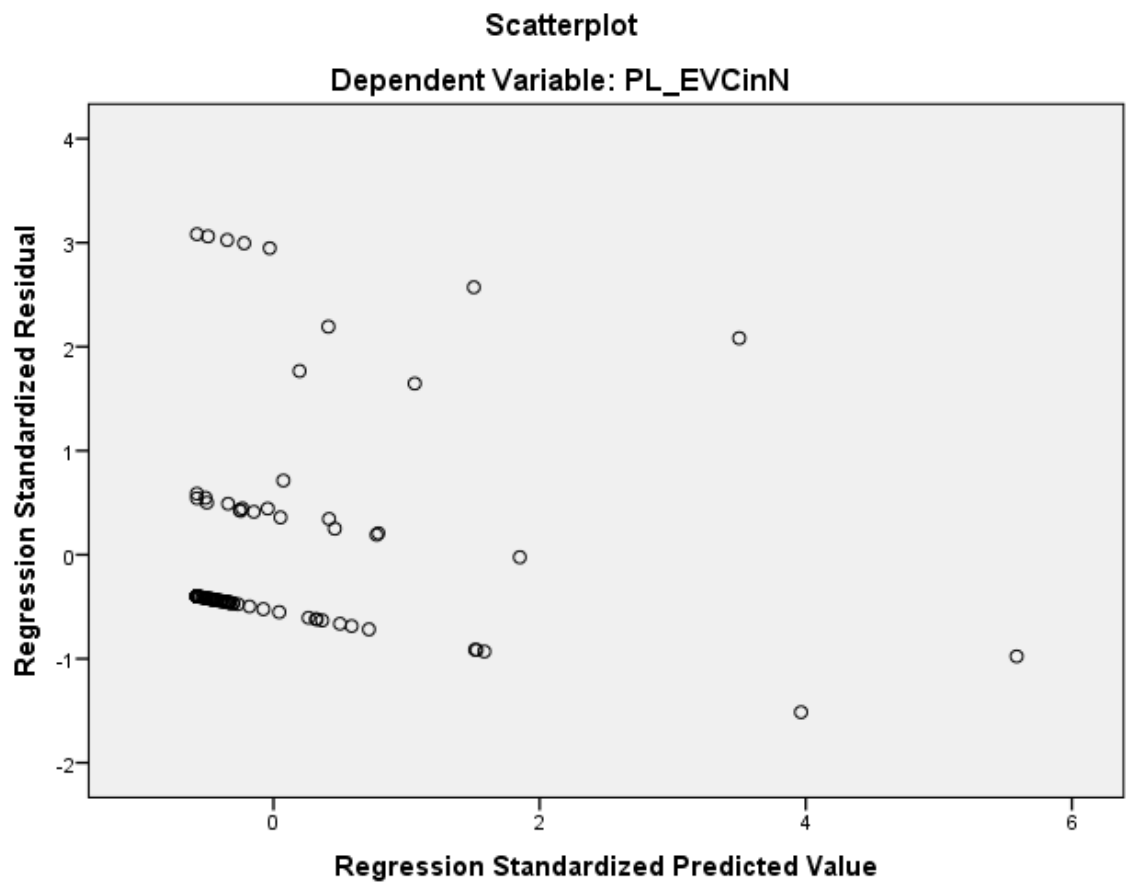
Cook's Distance	.000	.438	.020	.072
Centered Leverage Value	.000	.347	.011	.043

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TpinN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:42:16
Comments		
Input	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCin_TpinN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	6000 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_3	
Modified		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	TSpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
---	-----------	--	---

a. Dependent Variable: EVCin_TpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.276 ^a	.076	.066	.00571092406 2200

a. Predictors: (Constant), TSpaths_d

b. Dependent Variable: EVCin_TpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.315	.008 ^b
	Residual	.003	89	.000		

Total	.003	90			
-------	------	----	--	--	--

a. Dependent Variable: EVCin_TpinN

b. Predictors: (Constant), TSpaths_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.036	.009		3.882	.000
TSpaths_d	-2.281	.844	-.276	-2.705	.008

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
TSpaths_d	1.000	1.000

a. Dependent Variable: EVCin_TpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.083 ^b	.777	.439	.083	.923	1.084
	Tpaths_d	.602 ^b	.964	.338	.102	.027	37.537
	AvgPL_d	.197 ^b	1.584	.117	.166	.659	1.517
	AvgGL_d	.170 ^b	1.371	.174	.145	.671	1.489

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.923	
	Tpaths_d	.027	
	AvgPL_d	.659	
	AvgGL_d	.671	

a. Dependent Variable: EVCin_TpinN

b. Predictors in the Model: (Constant), TSpats_d

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpats_d

1	1	1.998	1.000	.00	.00
	2	.002	30.999	1.00	1.00

a. Dependent Variable: EVCin_TpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00338375591 6730	.01440101675 6892	.01098901098 9011	.00162819066 9040
Std. Predicted Value	-4.671	2.096	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	.00310748326 5921	.01460633613 1692	.01099502179 3030	.00163832971 1621
Residual	- .01281231455 5049	.00727020064 3688	.00000000000 0000	.00567910808 1709
Std. Residual	-2.243	1.273	.000	.994
Stud. Residual	-2.272	1.297	-.001	1.005
Deleted Residual	- .01313979271 7993	.00754836434 4984	- .00000601080 4019	.00579602846 0867
Stud. Deleted Residual	-2.328	1.302	-.006	1.014
Mahal. Distance	.003	21.818	.989	2.478
Cook's Distance	.000	.077	.010	.015

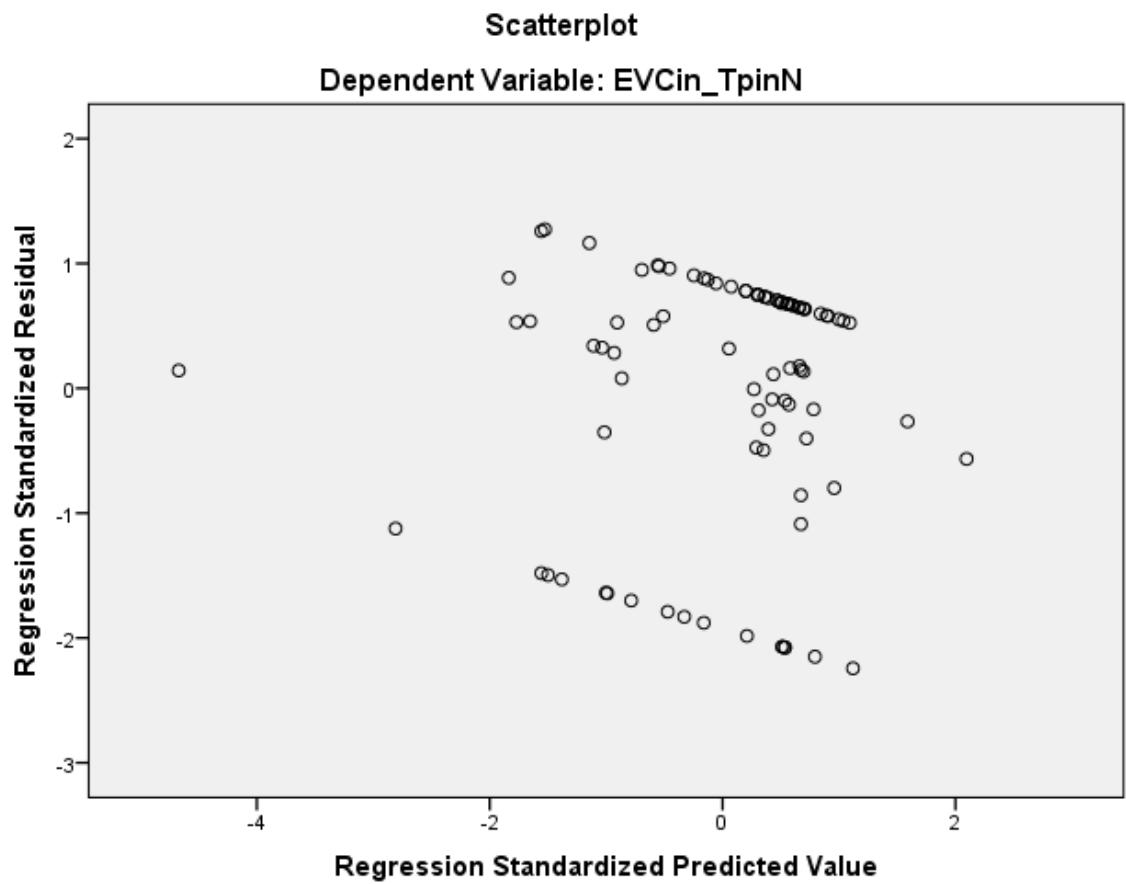
Centered Leverage Value	.000	.242	.011	.028
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCin_TpinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TspinN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:42:32
Comments		
Input	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCin_TSpinN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.17
	Memory Required	6032 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_4	
Modified		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	TSpats_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCin_TSpinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.284 ^a	.081	.071	.00572564445 1083

a. Predictors: (Constant), TSpats_d

b. Dependent Variable: EVCin_TSpinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.834	.006 ^b
	Residual	.003	89	.000		

Total	.003	90			
-------	------	----	--	--	--

a. Dependent Variable: EVCin_TSpinN

b. Predictors: (Constant), TSpats_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.037	.009		3.973	.000
TSpats_d	-2.367	.846	-.284	-2.799	.006

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
TSpats_d	1.000	1.000

a. Dependent Variable: EVCin_TSpinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.077 ^b	.730	.468	.078	.923	1.084
	Tpaths_d	.544 ^b	.873	.385	.093	.027	37.537
	AvgPL_d	.190 ^b	1.529	.130	.161	.659	1.517
	AvgGL_d	.168 ^b	1.358	.178	.143	.671	1.489

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.923	
	Tpaths_d	.027	
	AvgPL_d	.659	
	AvgGL_d	.671	

a. Dependent Variable: EVCin_TSpinN

b. Predictors in the Model: (Constant), TSpats_d

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpats_d

1	1	1.998	1.000	.00	.00
	2	.002	30.999	1.00	1.00

a. Dependent Variable: EVCin_TSpinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00309847481 5488	.01452900469 3031	.01098901098 9011	.00168926577 4164
Std. Predicted Value	-4.671	2.096	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	.00304855941 7948	.01474022585 8986	.01099704675 6702	.00168872469 8744
Residual	- .01288070809 0961	.00739774247 6314	.00000000000 0000	.00569374646 2215
Std. Residual	-2.250	1.292	.000	.994
Stud. Residual	-2.278	1.317	-.001	1.004
Deleted Residual	- .01320993527 7700	.00768078630 7901	- .00000803576 7691	.00581006671 9926
Stud. Deleted Residual	-2.334	1.322	-.006	1.014
Mahal. Distance	.003	21.818	.989	2.478
Cook's Distance	.000	.072	.010	.015

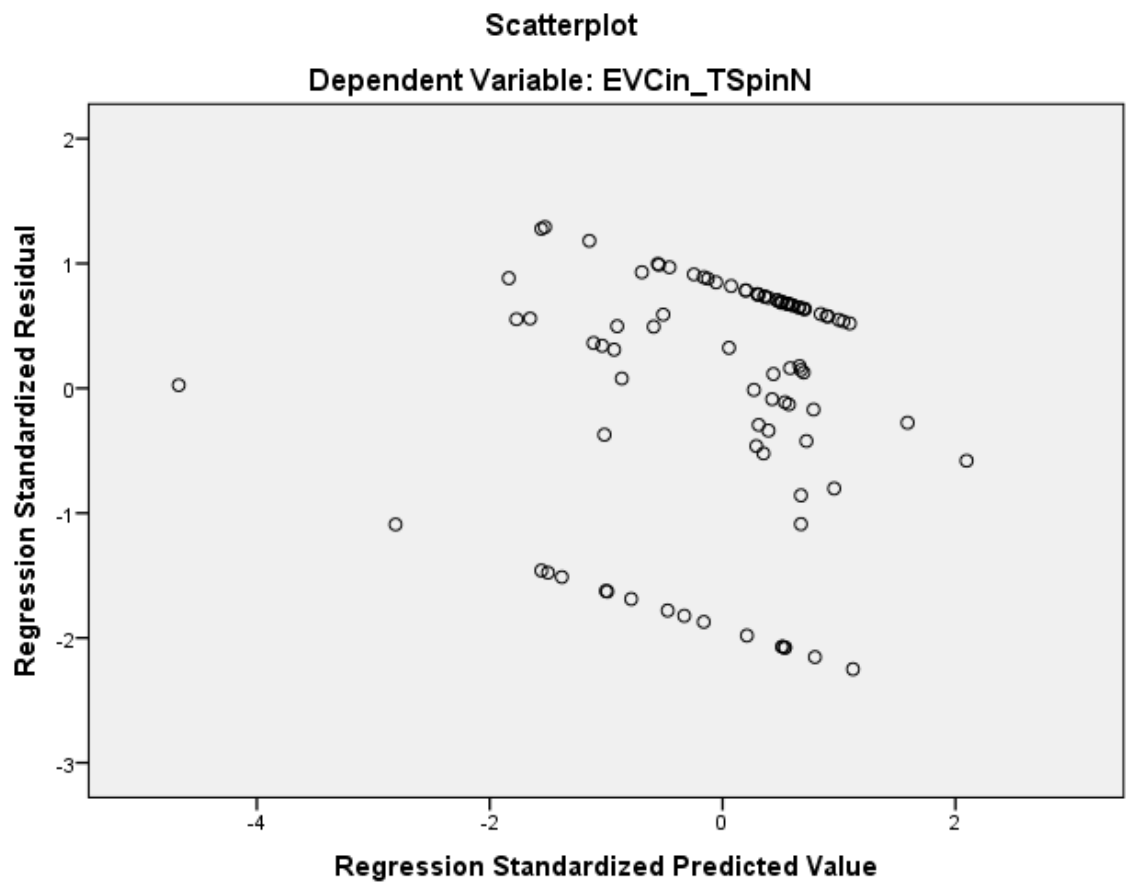
Centered Leverage Value	.000	.242	.011	.028
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCin_TSpinN

Charts



GET DATA /TYPE=XLSX

/FILE='C:\Users\Nitin\Desktop\Appendix\Normalized_Data\Com_con.xlsx'

/SHEET=name 'Sheet1'

/CELLRANGE=full

/READNAMES=on

/ASSUMEDSTRWIDTH=32767.

EXECUTE.

DATASET NAME DataSet6 WINDOW=FRONT.

REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TpinN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:37:00
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TpinN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01
	Memory Required	5920 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

[DataSet6]

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TSpinN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:37:13
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT PL_TSpinN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02
	Memory Required	5952 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_2	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_con

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:37:21
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>

	Split File	<none>	
	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.16
	Elapsed Time		00:00:00.16
	Memory Required	6000 bytes	
	Additional Memory Required for Residual Plots	0 bytes	

Variables Created or Modified	COO_3	Cook's Distance
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Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_con

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.408 ^a	.166	.157	.01232030656 8599

a. Predictors: (Constant), GD_d

b. Dependent Variable: S_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.003	1	.003	17.758	.000 ^b
	Residual	.014	89	.000		
	Total	.016	90			

a. Dependent Variable: S_con

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.006	.004		-1.416	.160
	GD_d	1.545	.367	.408	4.214	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	GD_d	1.000	1.000

a. Dependent Variable: S_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	.132 ^b	1.278	.205	.135	.876	1.141
	TSpaths_d	.105 ^b	1.040	.301	.110	.923	1.084
	AvgPL_d	.213 ^b	1.594	.115	.168	.518	1.930
	AvgGL_d	.211 ^b	1.715	.090	.180	.608	1.646

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.876
	TSpaths_d	.923
	AvgPL_d	.518
	AvgGL_d	.608

a. Dependent Variable: S_con

b. Predictors in the Model: (Constant), GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d
1	1	1.952	1.000	.02	.02
	2	.048	6.396	.98	.98

a. Dependent Variable: S_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00254630809 6498	.02815584093 3323	.01098901098 9011	.00547262259 1143
Std. Predicted Value	-1.543	3.137	.000	1.000
Standard Error of Predicted Value	.001	.004	.002	.001
Adjusted Predicted Value	.00232097692 7876	.03023642301 5594	.01100633472 4408	.00554731635 7507
Residual	- .01521136797 9646	.06989140063 5242	.00000000000 0000	.01225166922 9148
Std. Residual	-1.235	5.673	.000	.994

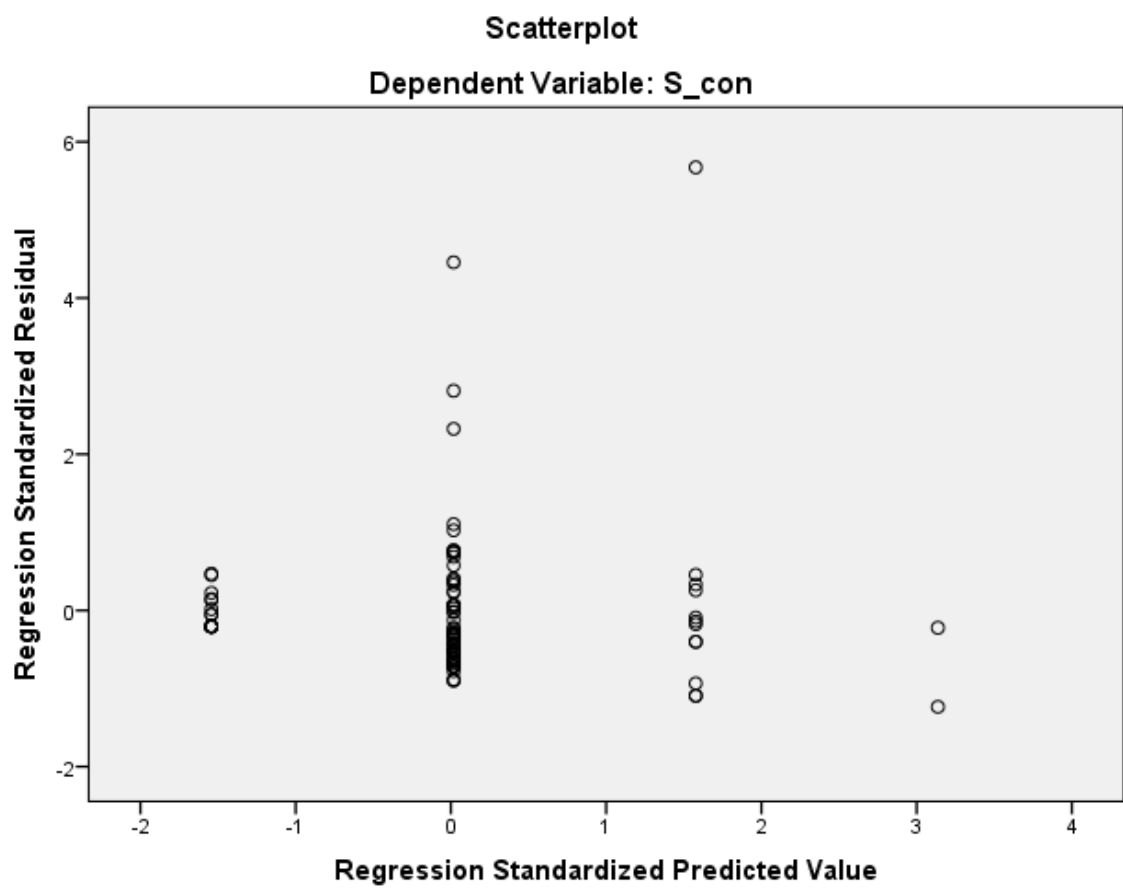
Stud. Residual	-1.316	5.786	-.001	1.007
Deleted Residual	-	-	-	-
	.01729195006	.07269915193	.00001732373	.01256588196
	1917	3193	5397	9724
Stud. Deleted Residual	-1.322	7.284	.025	1.141
Mahal. Distance	.000	9.840	.989	1.748
Cook's Distance	.000	.672	.013	.072
Centered Leverage Value	.000	.109	.011	.019

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: S_con

Charts



REGRESSION

/MISSING LISTWISE

```

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_con

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:37:38
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT R_con /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_con

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.407 ^a	.166	.157	.00087996679 5402

a. Predictors: (Constant), AvgPL_d

b. Dependent Variable: R_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	17.698	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: R_con

b. Predictors: (Constant), AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.009	.000		18.226	.000
	AvgPL_d	.185	.044	.407	4.207	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000

a. Dependent Variable: R_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.190 ^b	1.419	.159	.150	.518	1.930
	Tpaths_d	.088 ^b	.672	.503	.071	.546	1.832
	TSpaths_d	.063 ^b	.526	.600	.056	.659	1.517
	AvgGL_d	-.057 ^b	-.267	.790	-.028	.205	4.869

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.518	
	Tpaths_d	.546	
	TSpaths_d	.659	
	AvgGL_d	.205	

a. Dependent Variable: R_con

b. Predictors in the Model: (Constant), AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgPL_d
1	1	1.982	1.000	.01	.01
	2	.018	10.562	.99	.99

a. Dependent Variable: R_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01076447032 3920	.01316841784 8647	.01098901098 9011	.00039022135 7079
Std. Predicted Value	-.575	5.585	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.01074180379 5099	.01392540708 1842	.01099633549 2440	.00044170939 5170
Residual	- .00280729820 9518	.00268079992 3837	.00000000000 0000	.00087506443 5278
Std. Residual	-3.190	3.046	.000	.994
Stud. Residual	-3.214	3.299	-.004	1.020
Deleted Residual	- .00284908851 6086	.00314312404 9529	- .00000732450 3429	.00092511789 7063

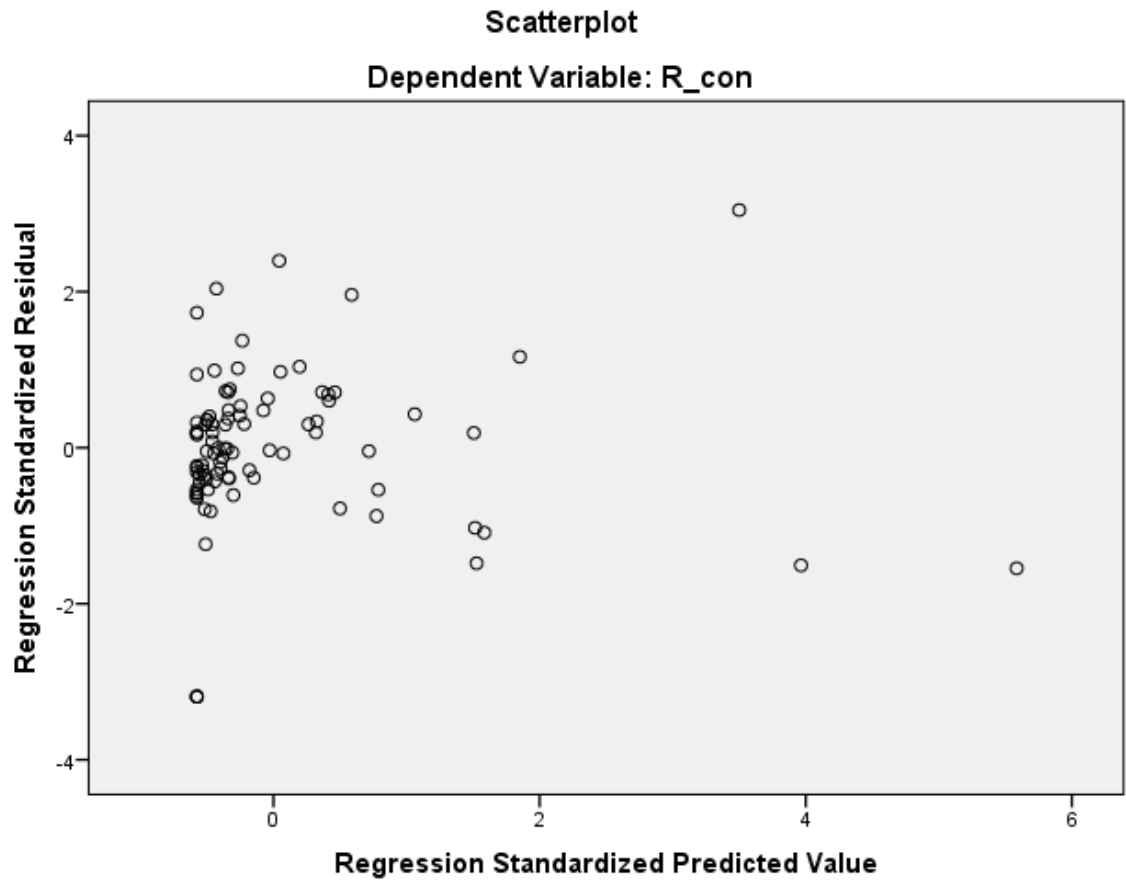
Stud. Deleted Residual	-3.399	3.501	-.006	1.052
Mahal. Distance	.001	31.193	.989	3.831
Cook's Distance	.000	1.035	.032	.149
Centered Leverage Value	.000	.347	.011	.043

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: R_con

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT SMSP_d

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:38:02
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT SMSP_d /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.02
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Warnings

No variables were entered into the equation.

DATASET CLOSE DataSet5.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_con

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:38:44
Comments	

Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	N of Rows in Working Data File	90
	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT R_con /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.18
	Memory Required	6112 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_con

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.441 ^a	.194	.185	.00086626974 0284
2	.495 ^b	.245	.227	.00084347468 6562

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

c. Dependent Variable: R_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	21.194	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	14.088	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			

a. Dependent Variable: R_con

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.008	.001		14.069	.000
	AvgPL_d	.247	.054	.441	4.604	.000
2	(Constant)	.009	.001		13.259	.000
	AvgPL_d	.605	.157	1.079	3.847	.000
	AvgGL_d	-.442	.183	-.676	-2.413	.018

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.110	9.055
	AvgGL_d	.110	9.055

a. Dependent Variable: R_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.149 ^b	1.182	.240	.126	.572	1.749
	Tpaths_d	.040 ^b	.315	.753	.034	.573	1.746
	TSpaths_d	-.002 ^b	-.015	.988	-.002	.623	1.605
	AvgGL_d	-.676 ^b	-2.413	.018	-.250	.110	9.055
2	GD_d	.120 ^c	.966	.337	.104	.566	1.768
	Tpaths_d	-.020 ^c	-.156	.876	-.017	.550	1.818
	TSpaths_d	-.026 ^c	-.215	.830	-.023	.619	1.616

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.572	
	Tpaths_d	.573	
	TSpaths_d	.623	
	AvgGL_d	.110	
2	GD_d	.096	

Tpaths_d	.089
TSpaths_d	.099

a. Dependent Variable: R_con

b. Predictors in the Model: (Constant), AvgPL_d

c. Predictors in the Model: (Constant), AvgPL_d, AvgGL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgPL_d	AvgGL_d
1	1	1.988	1.000	.01	.01	
	2	.012	12.840	.99	.99	
2	1	2.985	1.000	.00	.00	.00
	2	.014	14.762	.77	.05	.01
	3	.001	51.390	.23	.95	.99

a. Dependent Variable: R_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	.01069941930 4729	.01403567567 4677	.01097990661 4043	.00047458989 8047
Std. Predicted Value	-.591	6.439	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.01067416369 9150	.01323561649 7695	.01097827707 0428	.00044248116 9400
Residual	- .00274224695 7496	.00211159023 4563	.00000000000 0000	.00083394359 3179
Std. Residual	-3.251	2.503	.000	.989
Stud. Residual	-3.277	2.518	.000	1.020
Deleted Residual	- .00278586870 9907	.00235063233 4128	.00000162954 3615	.00090135827 4764
Stud. Deleted Residual	-3.480	2.600	-.005	1.049
Mahal. Distance	.003	50.154	1.978	6.656
Cook's Distance	.000	1.488	.034	.174
Centered Leverage Value	.000	.564	.022	.075

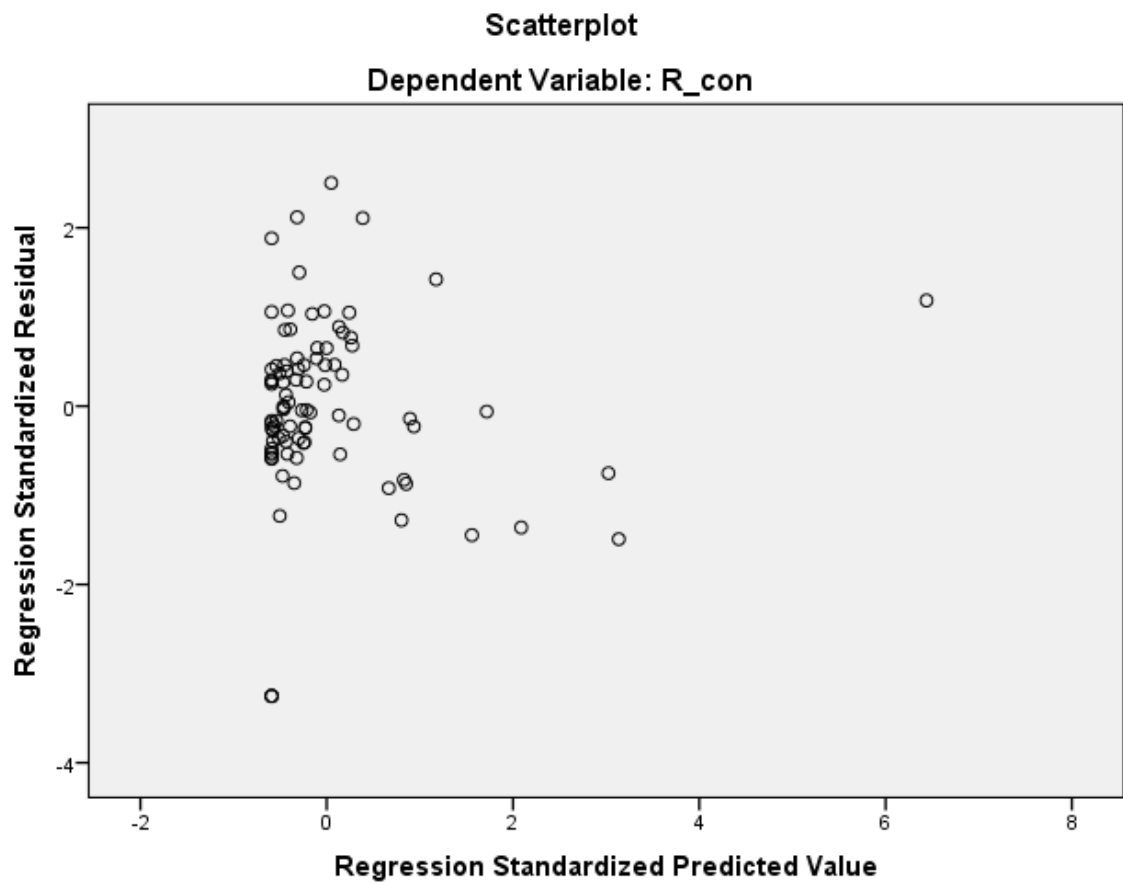
Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90

Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: R_con

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_con

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:39:18	
Comments		
Input	Active Dataset	DataSet6
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT R_con
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.14
	Elapsed Time	00:00:00.16
	Memory Required	6160 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_7	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: R_con

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.333 ^a	.111	.100	.00081709135 5939

a. Predictors: (Constant), GD_d

b. Dependent Variable: R_con

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.821	.001 ^b
	Residual	.000	87	.000		

Total	.000	88			
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a. Dependent Variable: R_con

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		33.777	.000
	GD_d	.086	.026	.333	3.290	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000

a. Dependent Variable: R_con

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	.004 ^b	.040	.968	.004	.950	1.053
	TSpaths_d	-.004 ^b	-.035	.972	-.004	.969	1.032
	AvgPL_d	.128 ^b	.955	.342	.102	.570	1.753
	AvgGL_d	.112 ^b	.910	.365	.098	.671	1.490

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.950
	TSpaths_d	.969
	AvgPL_d	.570
	AvgGL_d	.671

a. Dependent Variable: R_con

b. Predictors in the Model: (Constant), GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d

1	1	1.956	1.000	.02	.02
	2	.044	6.689	.98	.98

a. Dependent Variable: R_con

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01047926209 8670	.01190873514 8609	.01093433772 1033	.00028652677 9671
Std. Predicted Value	-1.588	3.401	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01040412858 1285	.01202506106 3468	.01093779317 7586	.00029174813 2474
Residual	- .00252208951 8607	.00215899688 1917	.00000000000 0000	.00081243552 6838
Std. Residual	-3.087	2.642	.000	.994
Stud. Residual	-3.150	2.657	-.002	1.009
Deleted Residual	- .00262690591 6259	.00218367110 9378	- .00000345545 6552	.00083639199 9119
Stud. Deleted Residual	-3.328	2.756	-.005	1.036
Mahal. Distance	.006	11.565	.989	1.703
Cook's Distance	.000	.206	.015	.040

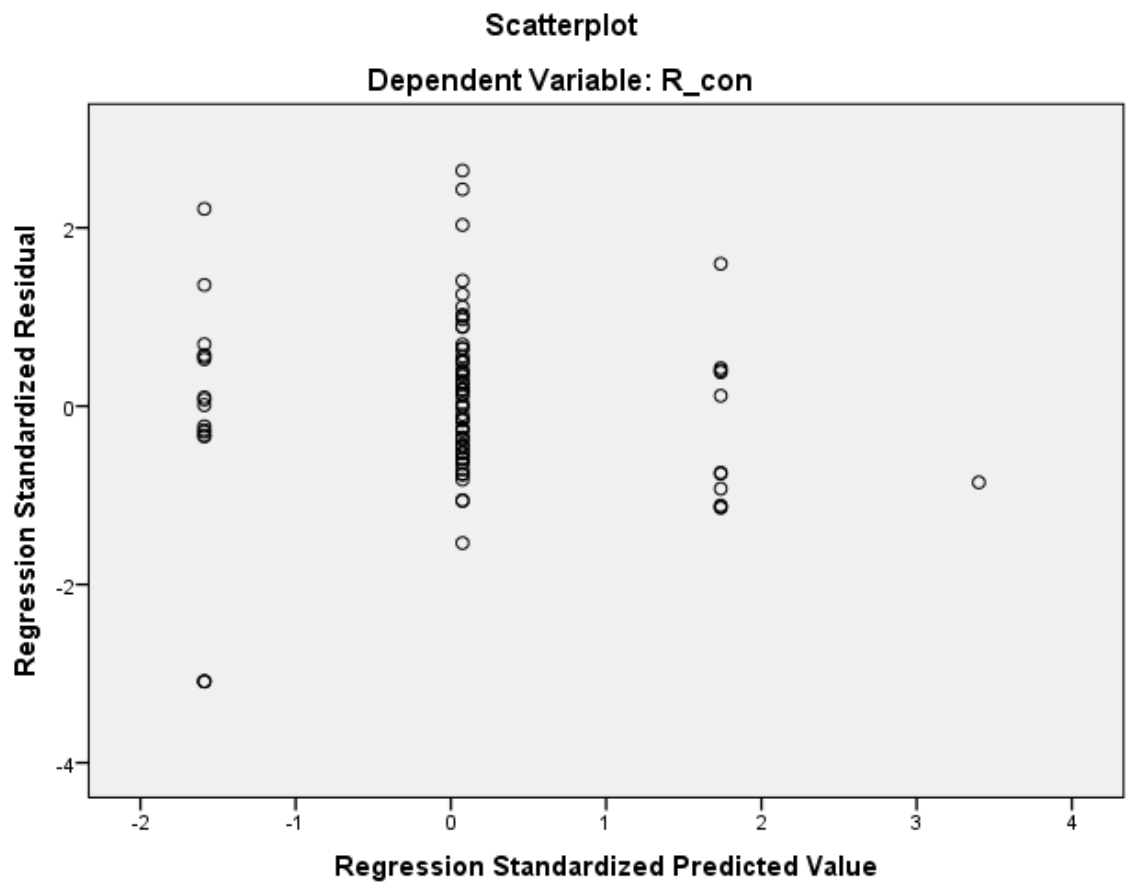
Centered Leverage Value	.000	.131	.011	.019
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Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89
Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89
Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: R_con

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT GD_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:26:59
Comments		
Input	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT GD_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.23
	Elapsed Time		00:00:00.23
	Memory Required	5920 bytes	
	Additional Memory Required for Residual Plots	0 bytes	
Variables Created or Modified	COO_1	Cook's Distance	

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: GD_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.408 ^a	.166	.157	.00325205489 1406
2	.477 ^b	.227	.210	.00314846450 1197

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

c. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	17.758	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	12.949	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: GD_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		22.205	.000

	S_con	.108	.026	.408	4.214	.000
2	(Constant)	-.001	.004		-.179	.858
	S_con	.082	.027	.309	3.059	.003
	R_con	.984	.373	.266	2.637	.010

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.862	1.161
	R_con	.862	1.161

a. Dependent Variable: GD_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.026 ^b	.256	.799	.027	.950	1.053
	PL_TSpinN	.068 ^b	.676	.501	.072	.933	1.072
	R_con	.266 ^b	2.637	.010	.271	.862	1.161

	SMSP_d	.113 ^b	1.159	.249	.123	.984	1.017
2	PL_TpinN	-.084 ^c	-.804	.423	-.086	.811	1.234
	PL_TSpinN	-.011 ^c	-.109	.913	-.012	.846	1.182
	SMSP_d	.089 ^c	.941	.349	.100	.974	1.026

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.950
	PL_TSpinN	.933
	R_con	.862
	SMSP_d	.984
2	PL_TpinN	.735
	PL_TSpinN	.781
	SMSP_d	.853

a. Dependent Variable: GD_d

b. Predictors in the Model: (Constant), S_con

c. Predictors in the Model: (Constant), S_con, R_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	S_con	R_con
1	1	1.636	1.000	.18	.18	
	2	.364	2.119	.82	.82	
2	1	2.540	1.000	.00	.05	.00
	2	.457	2.358	.00	.83	.00
	3	.003	27.734	1.00	.12	1.00

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00710997777 0597	.01813244633 3766	.01098901098 9011	.00168894213 4751
Std. Predicted Value	-2.297	4.230	.000	1.000
Standard Error of Predicted Value	.000	.002	.001	.000
Adjusted Predicted Value	.00733414804 5629	.01924381591 3796	.01102825870 0885	.00177892841 3692
Residual	- .00652555609 1219	.01014477200 8061	.00000000000 0000	.00311328502 2727
Std. Residual	-2.073	3.222	.000	.989
Stud. Residual	-2.113	3.254	-.006	1.005

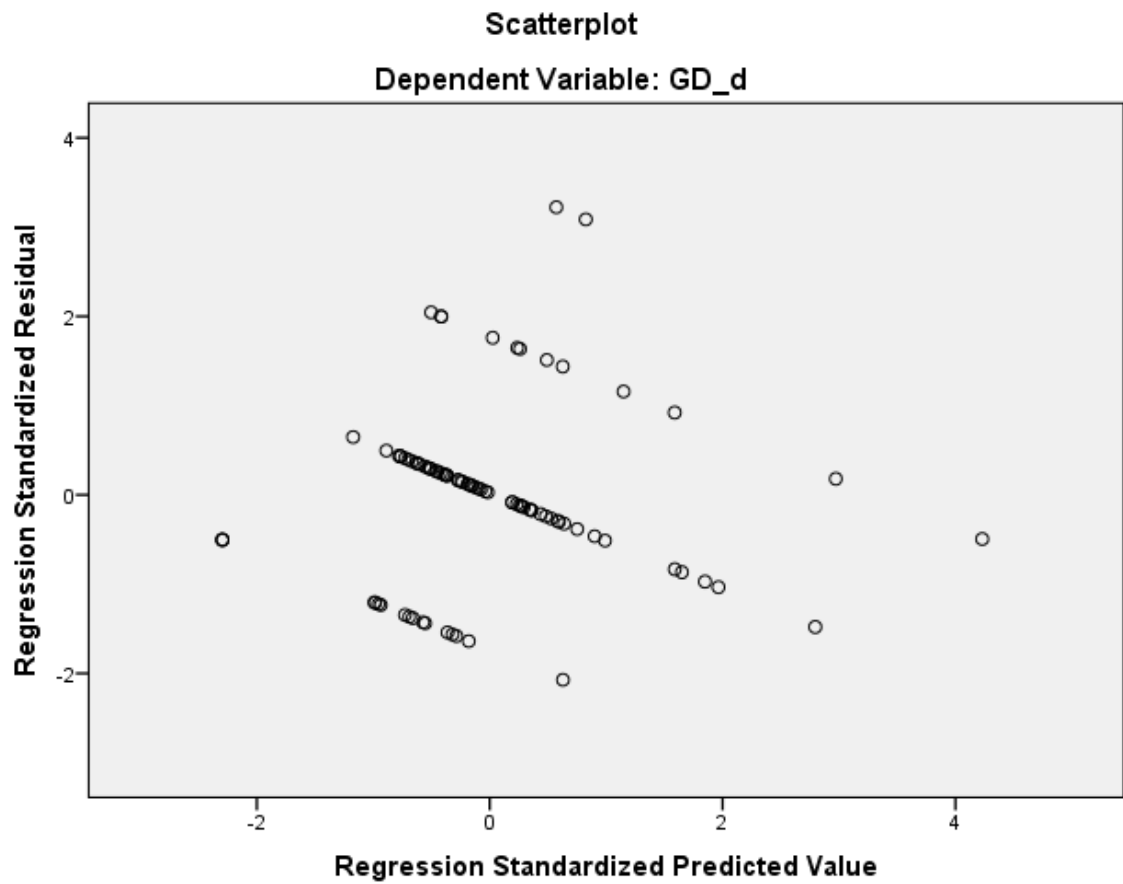
Deleted Residual	- .00678140996 0240	.01034651603 5497	- .00003924771 1874	.00321774858 5851
Stud. Deleted Residual	-2.156	3.450	-.002	1.025
Mahal. Distance	.028	36.484	1.978	4.890
Cook's Distance	.000	.262	.012	.031
Centered Leverage Value	.000	.405	.022	.054

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: GD_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Tpaths_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	28-MAY-2015 14:27:23	
Comments		
Input	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.17
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: Tpaths_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.323 ^a	.104	.094	.000740788647948
2	.398 ^b	.159	.140	.000721903066397

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TpinN

c. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.343	.002 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	8.304	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, PL_TpinN

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.008	.001		9.020	.000
	R_con	.262	.081	.323	3.216	.002
2	(Constant)	.008	.001		8.259	.000
	R_con	.352	.088	.434	4.007	.000
	PL_TpinN	-.037	.015	-.259	-2.391	.019

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.815	1.226
	PL_TpinN	.815	1.226

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.259 ^b	-2.391	.019	-.247	.815	1.226

	PL_TSpinN	-.215 ^b	-2.024	.046	-.211	.863	1.159
	S_con	.161 ^b	1.500	.137	.158	.862	1.161
	SMSP_d	-.013 ^b	-.125	.901	-.013	.981	1.019
2	PL_TSpinN	-.051 ^c	-.303	.763	-.032	.347	2.882
	S_con	.181 ^c	1.735	.086	.183	.857	1.167
	SMSP_d	-.009 ^c	-.087	.931	-.009	.981	1.020

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.815
	PL_TSpinN	.863
	S_con	.862
	SMSP_d	.981
2	PL_TSpinN	.328
	S_con	.735
	SMSP_d	.804

a. Dependent Variable: Tpaths_d

b. Predictors in the Model: (Constant), R_con

c. Predictors in the Model: (Constant), R_con, PL_TpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	PL_TpinN
1	1	1.996	1.000	.00	.00	
	2	.004	23.109	1.00	1.00	
2	1	2.867	1.000	.00	.00	.02
	2	.130	4.699	.01	.01	.85
	3	.003	29.673	.99	.99	.13

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01032221969 2171	.01214010734 1111	.01098901098 9011	.00031011946 7653
Std. Predicted Value	-2.150	3.712	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00994124542 9218	.01170078478 7536	.01097376012 9483	.00031176078 3555
Residual	- .00133596837 9863	.00277788913 8088	.00000000000 0000	.00071383685 7179
Std. Residual	-1.851	3.848	.000	.989

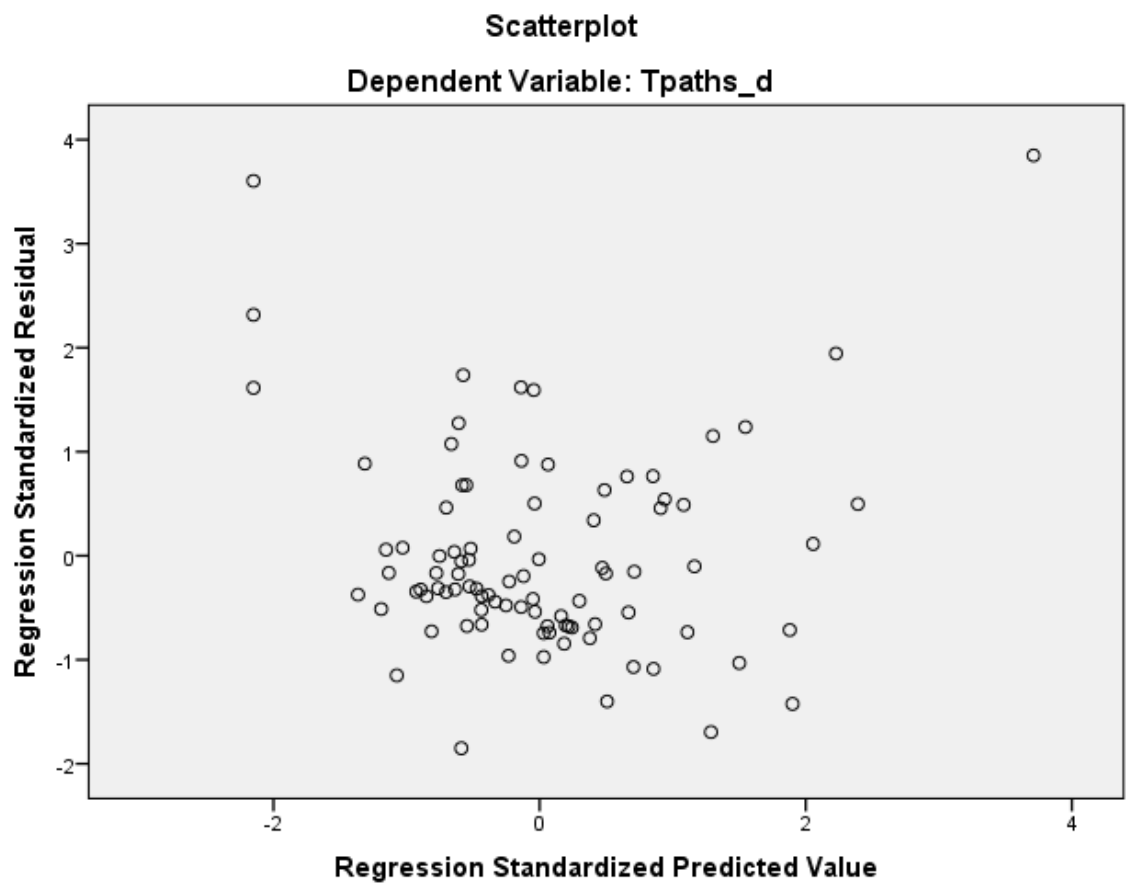
Stud. Residual	-1.879	4.335	.010	1.039
Deleted Residual	-	.00352489668	.00001525085	.00079019180
	.00137700280	8759	9528	1789
	1746			
Stud. Deleted Residual	-1.907	4.860	.022	1.084
Mahal. Distance	.004	18.084	1.978	2.897
Cook's Distance	.000	1.684	.039	.194
Centered Leverage Value	.000	.201	.022	.032

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: Tpaths_d

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT TSpats_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

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	N of Rows in Working Data File	91
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	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.21
	Memory Required	6000 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpaths_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.279 ^a	.078	.068	.00068909322 3668

2	.361 ^b	.130	.110	.00067312298 2332
---	-------------------	------	------	----------------------

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TSpinN

c. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.531	.007 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	6.583	.002 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: TSpats_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, PL_TSpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.009	.001		10.407	.000
	R_con	.208	.076	.279	2.744	.007
2	(Constant)	.008	.001		9.932	.000
	R_con	.276	.080	.370	3.460	.001
	PL_TSpinN	-.031	.013	-.246	-2.296	.024

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.863	1.159
	PL_TSpinN	.863	1.159

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model	Beta In	t	Sig.	Partial	Collinearity Statistics
-------	---------	---	------	---------	-------------------------

					Correlation	Tolerance	VIF
1	PL_TpinN	-.244 ^b	-2.211	.030	-.229	.815	1.226
	PL_TSpinN	-.246 ^b	-2.296	.024	-.238	.863	1.159
	S_con	.123 ^b	1.124	.264	.119	.862	1.161
	SMSP_d	-.045 ^b	-.437	.663	-.047	.981	1.019
2	PL_TpinN	-.121 ^c	-.692	.491	-.074	.328	3.050
	S_con	.161 ^c	1.498	.138	.159	.845	1.184
	SMSP_d	-.065 ^c	-.642	.522	-.069	.974	1.027

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.815
	PL_TSpinN	.863
	S_con	.862
	SMSP_d	.981
2	PL_TpinN	.328
	S_con	.781
	SMSP_d	.841

a. Dependent Variable: TSpats_d

b. Predictors in the Model: (Constant), R_con

c. Predictors in the Model: (Constant), R_con, PL_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	PL_TSpinN
1	1	1.996	1.000	.00	.00	
	2	.004	23.109	1.00	1.00	
2	1	2.859	1.000	.00	.00	.02
	2	.137	4.563	.01	.01	.89
	3	.003	28.966	.99	.99	.09

a. Dependent Variable: TSpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01049345172 9417	.01217445172 3695	.01098901098 9011	.00025745245 1193
Std. Predicted Value	-1.925	4.605	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01012022700 1607	.01154615823 1795	.01097444661 4925	.00025324417 0818

Residual	- .00134193140 5477	.00250005000 2709	.00000000000 0000	.00066560181 9093
Std. Residual	-1.994	3.714	.000	.989
Stud. Residual	-2.021	3.982	.010	1.036
Deleted Residual	- .00137955474 2016	.00289721367 8807	.00001456437 4086	.00073419859 3683
Stud. Deleted Residual	-2.058	4.372	.020	1.071
Mahal. Distance	.006	22.283	1.978	3.122
Cook's Distance	.000	1.597	.038	.188
Centered Leverage Value	.000	.248	.022	.035

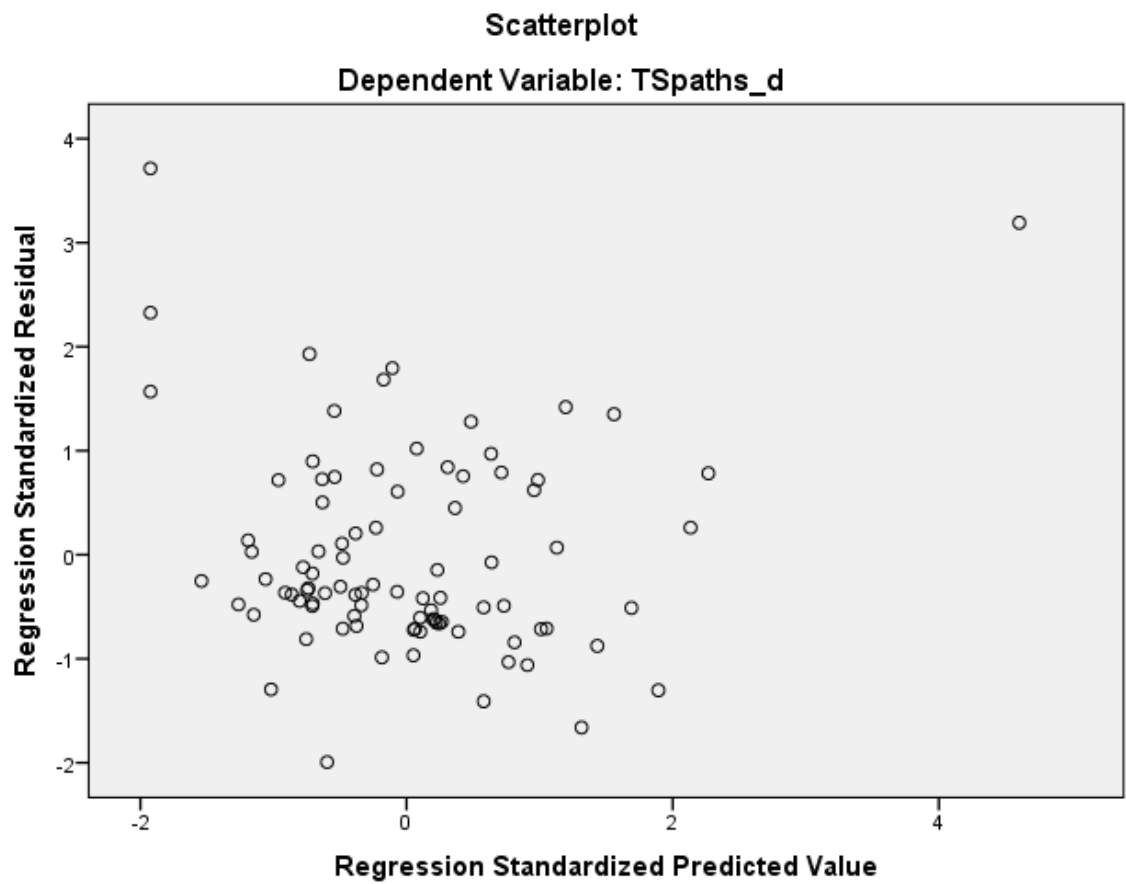
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: TSpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgPL_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Input	Active Dataset DataSet5

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	Split File	<none>
	N of Rows in Working Data File	91
	Missing Value Handling	Definition of Missing User-defined missing values are treated as missing. Cases Used Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.22
	Memory Required	6032 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

3	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	PL_TSpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_d

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.407 ^a	.166	.157	.00193911079 4281
2	.515 ^b	.265	.248	.00183031895 7429
3	.589 ^c	.347	.324	.00173594226 5763
4	.621 ^d	.386	.357	.00169256096 8808

a. Predictors: (Constant), R_con

b. Predictors: (Constant), R_con, PL_TpinN

c. Predictors: (Constant), R_con, PL_TpinN, S_con

d. Predictors: (Constant), R_con, PL_TpinN, S_con, PL_TSpinN

e. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	17.698	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	15.880	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	15.378	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	4	.000	13.512	.000 ^e
	Residual	.000	86	.000		
	Total	.000	90			

a. Dependent Variable: AvgPL_d

b. Predictors: (Constant), R_con

c. Predictors: (Constant), R_con, PL_TpinN

d. Predictors: (Constant), R_con, PL_TpinN, S_con

e. Predictors: (Constant), R_con, PL_TpinN, S_con, PL_TSpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.001	.002		.479	.633
	R_con	.897	.213	.407	4.207	.000
2	(Constant)	-.001	.002		-.448	.655
	R_con	1.228	.223	.557	5.506	.000
	PL_TpinN	-.134	.039	-.349	-3.449	.001
3	(Constant)	.001	.002		.465	.643
	R_con	.998	.223	.453	4.481	.000
	PL_TpinN	-.143	.037	-.373	-3.876	.000
	S_con	.048	.015	.308	3.291	.001
4	(Constant)	.001	.002		.381	.704
	R_con	.998	.217	.453	4.595	.000
	PL_TpinN	-.246	.057	-.641	-4.339	.000

S_con	.044	.014	.280	3.043	.003
PL_TSpinN	.127	.054	.340	2.349	.021

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000
2	(Constant)		
	R_con	.815	1.226
	PL_TpinN	.815	1.226
3	(Constant)		
	R_con	.735	1.360
	PL_TpinN	.811	1.234
	S_con	.857	1.167
4	(Constant)		
	R_con	.735	1.360
	PL_TpinN	.327	3.058
	S_con	.842	1.187
	PL_TSpinN	.341	2.931

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.349 ^b	-3.449	.001	-.345	.815	1.226
	PL_TSpinN	-.103 ^b	-.986	.327	-.105	.863	1.159
	S_con	.281 ^b	2.790	.006	.285	.862	1.161
	SMSP_d	.070 ^b	.712	.478	.076	.981	1.019
2	PL_TSpinN	.397 ^c	2.643	.010	.273	.347	2.882
	S_con	.308 ^c	3.291	.001	.333	.857	1.167
	SMSP_d	.075 ^c	.815	.417	.087	.981	1.020
3	PL_TSpinN	.340 ^d	2.349	.021	.246	.341	2.931
	SMSP_d	.052 ^d	.591	.556	.064	.974	1.026
4	SMSP_d	.088 ^e	1.013	.314	.109	.947	1.056

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.815
	PL_TSpinN	.863
	S_con	.862
	SMSP_d	.981
2	PL_TSpinN	.328

	S_con	.735
	SMSP_d	.804
3	PL_TSpinN	.327
	SMSP_d	.730
4	SMSP_d	.321

- a. Dependent Variable: AvgPL_d
- b. Predictors in the Model: (Constant), R_con
- c. Predictors in the Model: (Constant), R_con, PL_TpinN
- d. Predictors in the Model: (Constant), R_con, PL_TpinN, S_con
- e. Predictors in the Model: (Constant), R_con, PL_TpinN, S_con, PL_TSpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_con	PL_TpinN
1	1	1.996	1.000	.00	.00	
	2	.004	23.109	1.00	1.00	
2	1	2.867	1.000	.00	.00	.02
	2	.130	4.699	.01	.01	.85
	3	.003	29.673	.99	.99	.13
3	1	3.391	1.000	.00	.00	.01
	2	.477	2.667	.00	.00	.01

	3	.129	5.127	.01	.01	.87
	4	.003	33.815	.99	.99	.10
4	1	4.288	1.000	.00	.00	.00
	2	.488	2.964	.00	.00	.00
	3	.181	4.862	.01	.01	.09
	4	.039	10.491	.00	.00	.86
	5	.003	38.039	.99	.99	.05

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		S_con	PL_TSpinN
1	1		
	2		
2	1		
	2		
	3		
3	1	.03	
	2	.88	
	3	.01	
	4	.09	
4	1	.02	.00
	2	.89	.00
	3	.00	.11

4	.00	.88
5	.09	.00

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00878600776 1955	.01571643166 2440	.01098901098 9011	.00131162396 4190
Std. Predicted Value	-1.680	3.604	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00863467529 4161	.01686527021 2293	.01092958669 2173	.00128474962 1277
Residual	- .00268629728 8164	.00708217360 0793	.00000000000 0000	.00165452103 3241
Std. Residual	-1.587	4.184	.000	.978
Stud. Residual	-1.633	5.442	.016	1.088
Deleted Residual	- .00307527463 8832	.01197806373 2386	.00005942429 6838	.00209370369 6323
Stud. Deleted Residual	-1.649	6.681	.037	1.187
Mahal. Distance	.175	37.333	3.956	6.476
Cook's Distance	.000	4.094	.069	.441

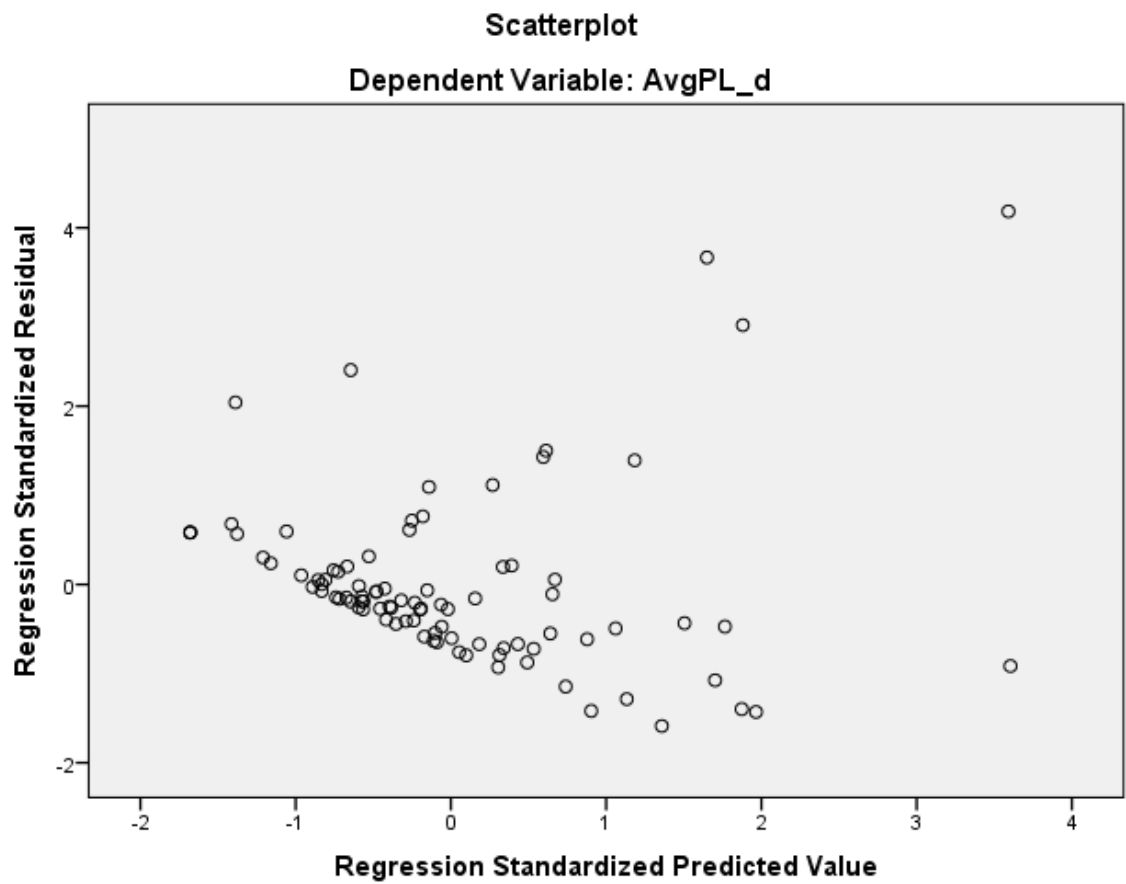
Centered Leverage Value	.002	.415	.044	.072
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgPL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgGL_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgGL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgGL_d

Model Summary^d

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

1	.383 ^a	.147	.137	.00140710763 6239
2	.444 ^b	.198	.179	.00137253334 9426
3	.553 ^c	.305	.281	.00128441919 3754

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, R_con

c. Predictors: (Constant), S_con, R_con, PL_TpinN

d. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	15.343	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	10.833	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	12.743	.000 ^d
	Residual	.000	87	.000		

Total	.000	90			
-------	------	----	--	--	--

a. Dependent Variable: AvgGL_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, R_con

d. Predictors: (Constant), S_con, R_con, PL_TpinN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		55.019	.000
	S_con	.043	.011	.383	3.917	.000
2	(Constant)	.006	.002		3.667	.000
	S_con	.033	.012	.293	2.852	.005
	R_con	.383	.163	.242	2.354	.021
3	(Constant)	.005	.002		2.928	.004
	S_con	.036	.011	.320	3.318	.001
	R_con	.615	.165	.389	3.730	.000
	PL_TpinN	-.100	.027	-.364	-3.673	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.862	1.161
	R_con	.862	1.161
3	(Constant)		
	S_con	.857	1.167
	R_con	.735	1.360
	PL_TpinN	.811	1.234

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.223 ^b	-2.269	.026	-.235	.950	1.053
	PL_TSpinN	-.136 ^b	-1.351	.180	-.143	.933	1.072
	R_con	.242 ^b	2.354	.021	.243	.862	1.161
	SMSP_d	-.028 ^b	-.287	.775	-.031	.984	1.017

2	PL_TpinN	-.364 ^c	-3.673	.000	-.366	.811	1.234
	PL_TSpinN	-.229 ^c	-2.253	.027	-.235	.846	1.182
	SMSP_d	-.051 ^c	-.526	.600	-.056	.974	1.026
3	PL_TSpinN	.116 ^d	.759	.450	.082	.341	2.931
	SMSP_d	-.047 ^d	-.522	.603	-.056	.974	1.026

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.950
	PL_TSpinN	.933
	R_con	.862
	SMSP_d	.984
2	PL_TpinN	.735
	PL_TSpinN	.781
	SMSP_d	.853
3	PL_TSpinN	.327
	SMSP_d	.730

a. Dependent Variable: AvgGL_d

b. Predictors in the Model: (Constant), S_con

c. Predictors in the Model: (Constant), S_con, R_con

d. Predictors in the Model: (Constant), S_con, R_con, PL_TpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	R_con
1	1	1.636	1.000	.18	.18	
	2	.364	2.119	.82	.82	
2	1	2.540	1.000	.00	.05	.00
	2	.457	2.358	.00	.83	.00
	3	.003	27.734	1.00	.12	1.00
3	1	3.391	1.000	.00	.03	.00
	2	.477	2.667	.00	.88	.00
	3	.129	5.127	.01	.01	.01
	4	.003	33.815	.99	.09	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		PL_TpinN
1	1	
	2	
2	1	
	2	

	3	
3	1	.01
	2	.01
	3	.87
	4	.10

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00982917193 3234	.01428787782 7883	.01098901098 9011	.00083710749 7101
Std. Predicted Value	-1.386	3.941	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00974210351 7056	.01477341819 5546	.01098551973 4865	.00085376327 6045
Residual	- .00181780511 0477	.00645803054 7947	.00000000000 0000	.00126283077 9020
Std. Residual	-1.415	5.028	.000	.983
Stud. Residual	-1.456	5.267	.002	1.016
Deleted Residual	- .00192271033 3019	.00708537828 1772	.00000349125 4146	.00134931589 9266

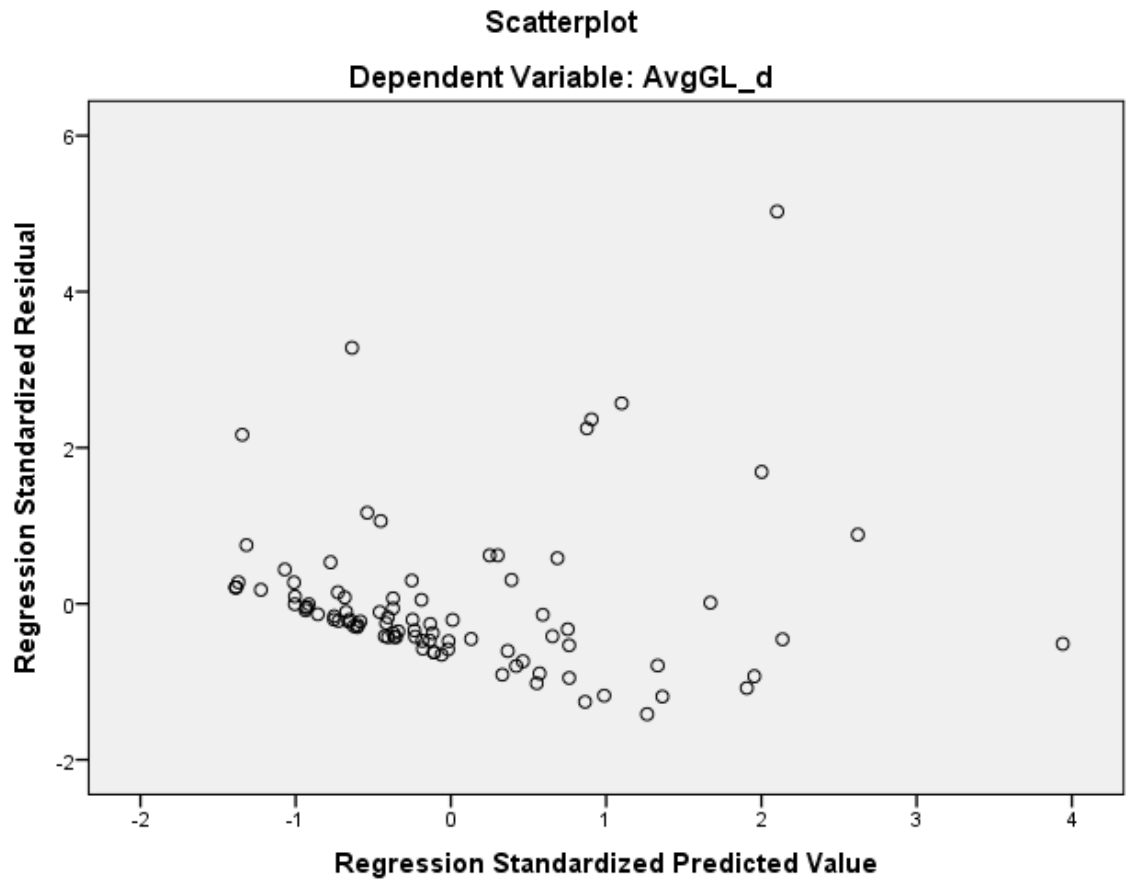
Stud. Deleted Residual	-1.465	6.344	.019	1.097
Mahal. Distance	.058	37.160	2.967	4.972
Cook's Distance	.000	.674	.018	.073
Centered Leverage Value	.001	.413	.033	.055

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgGL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Tpaths_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:29:32	
Comments		
Input	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	90
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

		Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax			REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Tpaths_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.16
	Elapsed Time		00:00:00.16
	Memory Required		6112 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_6		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TpinN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: Tpaths_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.244 ^a	.059	.049	.00064486384 6386
2	.340 ^b	.115	.095	.00062897671 1175

a. Predictors: (Constant), S_con

b. Predictors: (Constant), S_con, PL_TpinN

c. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	5.562	.021 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	5.674	.005 ^c
	Residual	.000	87	.000		
	Total	.000	89			

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), S_con

c. Predictors: (Constant), S_con, PL_TpinN

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.011	.000		123.482	.000
	S_con	.012	.005	.244	2.358	.021
2	(Constant)	.011	.000		73.760	.000
	S_con	.015	.005	.295	2.861	.005
	PL_TpinN	-.029	.012	-.242	-2.346	.021

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000
2	(Constant)		
	S_con	.955	1.047
	PL_TpinN	.955	1.047

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.242 ^b	-2.346	.021	-.244	.955	1.047

	PL_TSpinN	-.125 ^b	-1.168	.246	-.124	.930	1.075
	R_con	.024 ^b	.211	.833	.023	.865	1.156
	SMSP_d	.015 ^b	.144	.886	.015	.983	1.017
2	PL_TSpinN	.221 ^c	1.232	.221	.132	.314	3.185
	R_con	.136 ^c	1.165	.247	.125	.748	1.337
	SMSP_d	.027 ^c	.268	.789	.029	.981	1.020

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpinN	.955
	PL_TSpinN	.930
	R_con	.865
	SMSP_d	.983
2	PL_TSpinN	.314
	R_con	.748
	SMSP_d	.942

a. Dependent Variable: Tpaths_d

b. Predictors in the Model: (Constant), S_con

c. Predictors in the Model: (Constant), S_con, PL_TpinN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_con	PL_TpinN
1	1	1.631	1.000	.18	.18	
	2	.369	2.101	.82	.82	
2	1	2.449	1.000	.03	.07	.03
	2	.445	2.346	.06	.93	.06
	3	.106	4.818	.91	.00	.92

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01060213241 7262	.01208510529 2499	.01094535559 2684	.00022460139 1335
Std. Predicted Value	-1.528	5.075	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01053765974 9389	.01228288095 4444	.01094485900 2866	.00023594900 8761
Residual	- .00134797196 3696	.00181793433 1484	.00000000000 0000	.00062186940 1536
Std. Residual	-2.143	2.890	.000	.989

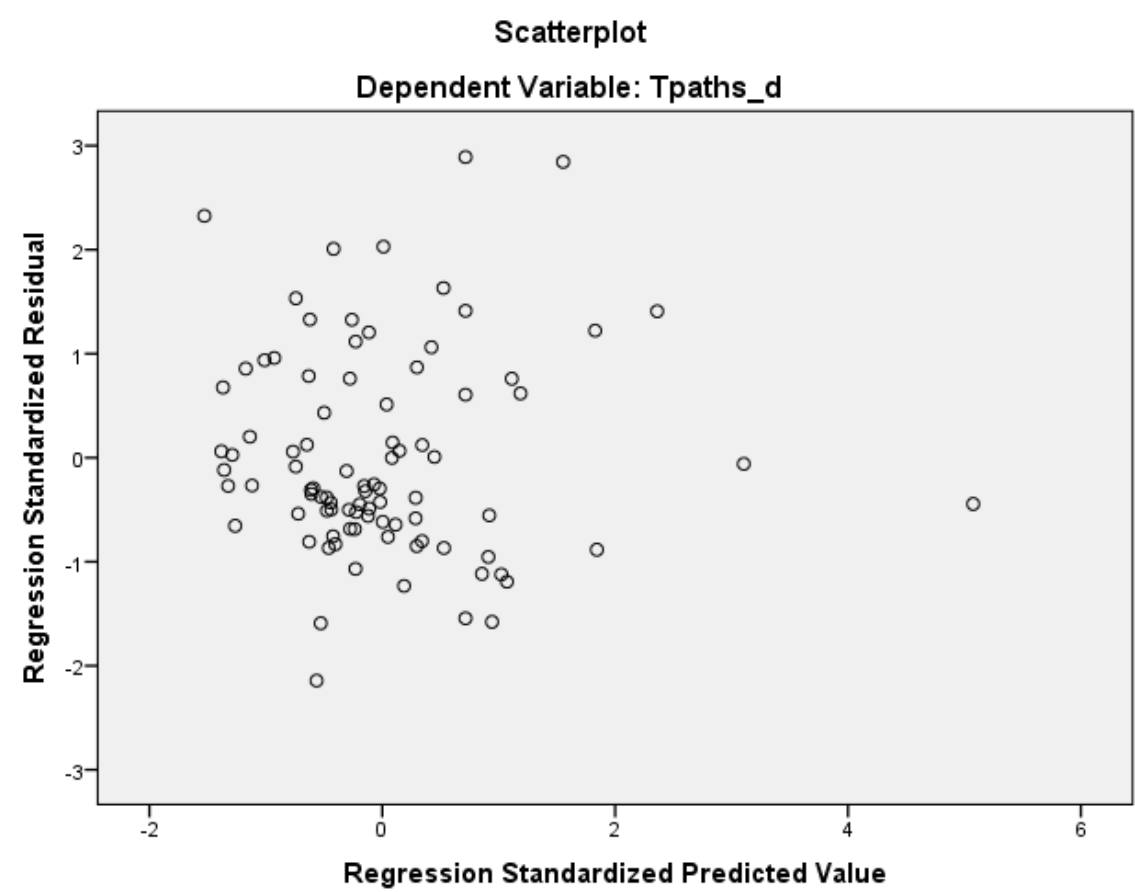
Stud. Residual	-2.175	2.977	.001	1.008
Deleted Residual	-			
	.00138880591	.00192844413	.00000049658	.00064723476
	8396	6865	9818	3210
Stud. Deleted Residual	-2.224	3.123	.006	1.024
Mahal. Distance	.008	35.890	1.978	4.288
Cook's Distance	.000	.181	.014	.031
Centered Leverage Value	.000	.403	.022	.048

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: Tpaths_d

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT TSpats_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:29:46
Comments		
Input	Active Dataset	DataSet5
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	Split File	<none>

	N of Rows in Working Data File	90
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT TSpats_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02
	Memory Required	6160 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_7	Cook's Distance

Warnings

No variables were entered into the equation.
--

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgPL_d

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:34:48
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Comments		
Input	Active Dataset	DataSet5
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgPL_d /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16

	Memory Required	6240 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.489 ^a	.239	.230	.00133420890 9668

a. Predictors: (Constant), S_con

b. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	27.269	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			

a. Dependent Variable: AvgPL_d

b. Predictors: (Constant), S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		56.022	.000
	S_con	.055	.011	.489	5.222	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.172 ^b	-1.815	.073	-.192	.951	1.051
	PL_TSpinN	-.170 ^b	-1.770	.080	-.187	.929	1.076
	R_con	.129 ^b	1.284	.203	.137	.865	1.157
	SMSP_d	.132 ^b	1.409	.162	.150	.983	1.017

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.951	
	PL_TSpinN	.929	
	R_con	.865	

SMSP_d	.983
--------	------

a. Dependent Variable: AvgPL_d

b. Predictors in the Model: (Constant), S_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_con
1	1	1.628	1.000	.19	.19
	2	.372	2.091	.81	.81

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01017797272 6524	.01510271616 2801	.01077348889 4682	.00074270983 4311
Std. Predicted Value	-.802	5.829	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.01018547080 4572	.01571950502 6937	.01078426582 6408	.00080111461 1683

Residual	- .00130544905 5508	.00778246810 6598	.00000000000 0000	.00132660651 7814
Std. Residual	-.978	5.833	.000	.994
Stud. Residual	-1.095	5.906	-.004	1.007
Deleted Residual	- .00163392664 3990	.00797818787 3960	- .00001077693 1727	.00136293670 6512
Stud. Deleted Residual	-1.096	7.586	.022	1.141
Mahal. Distance	.000	33.977	.989	4.026
Cook's Distance	.000	.439	.014	.057
Centered Leverage Value	.000	.386	.011	.046

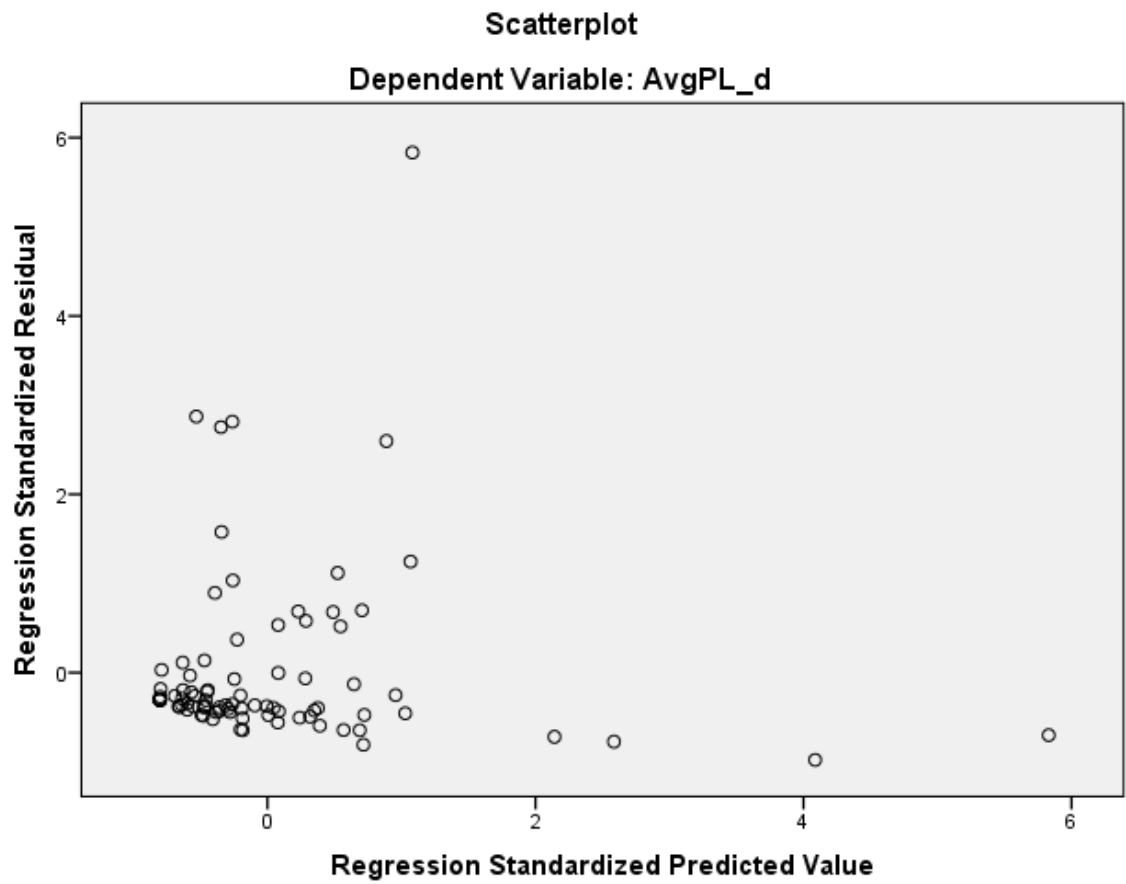
Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89
Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89

Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: AvgPL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECin

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:52:38
Comments	
Input	Active Dataset DataSet7

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	Weight	<none>	
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	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECin /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.19
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	Memory Required	6080 bytes	

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_con		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECin

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.365 ^a	.133	.124	.00296040889 8853

a. Predictors: (Constant), R_con

b. Dependent Variable: ECin

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	13.702	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: ECin

b. Predictors: (Constant), R_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.024	.004		6.747	.000
	R_con	-1.206	.326	-.365	-3.702	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_con	1.000	1.000

a. Dependent Variable: ECin

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	-.027 ^b	-.249	.804	-.027	.815	1.226
	PL_TSpinN	-.049 ^b	-.463	.644	-.049	.863	1.159
	S_con	-.065 ^b	-.614	.541	-.065	.862	1.161
	SMSP_d	-.098 ^b	-.987	.326	-.105	.981	1.019

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.815	
	PL_TSpinN	.863	
	S_con	.862	

SMSP_d	.981
--------	------

a. Dependent Variable: ECin

b. Predictors in the Model: (Constant), R_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_con
1	1	1.996	1.000	.00	.00
	2	.004	23.109	1.00	1.00

a. Dependent Variable: ECin

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00611063465 4760	.01464410778 1351	.01098901098 9011	.00115509218 1722
Std. Predicted Value	-4.223	3.164	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00755510898 3070	.01486991066 4856	.01100470872 4322	.00113223525 7345

Residual	- .00818135682 4934	.00476622069 2545	.00000000000 0000	.00294391624 1842
Std. Residual	-2.764	1.610	.000	.994
Stud. Residual	-2.790	1.666	-.002	1.009
Deleted Residual	- .00833812728 5242	.00510128168 3892	- .00001569773 5311	.00303354648 2759
Stud. Deleted Residual	-2.904	1.683	-.007	1.019
Mahal. Distance	.000	17.837	.989	2.605
Cook's Distance	.000	.569	.016	.061
Centered Leverage Value	.000	.198	.011	.029

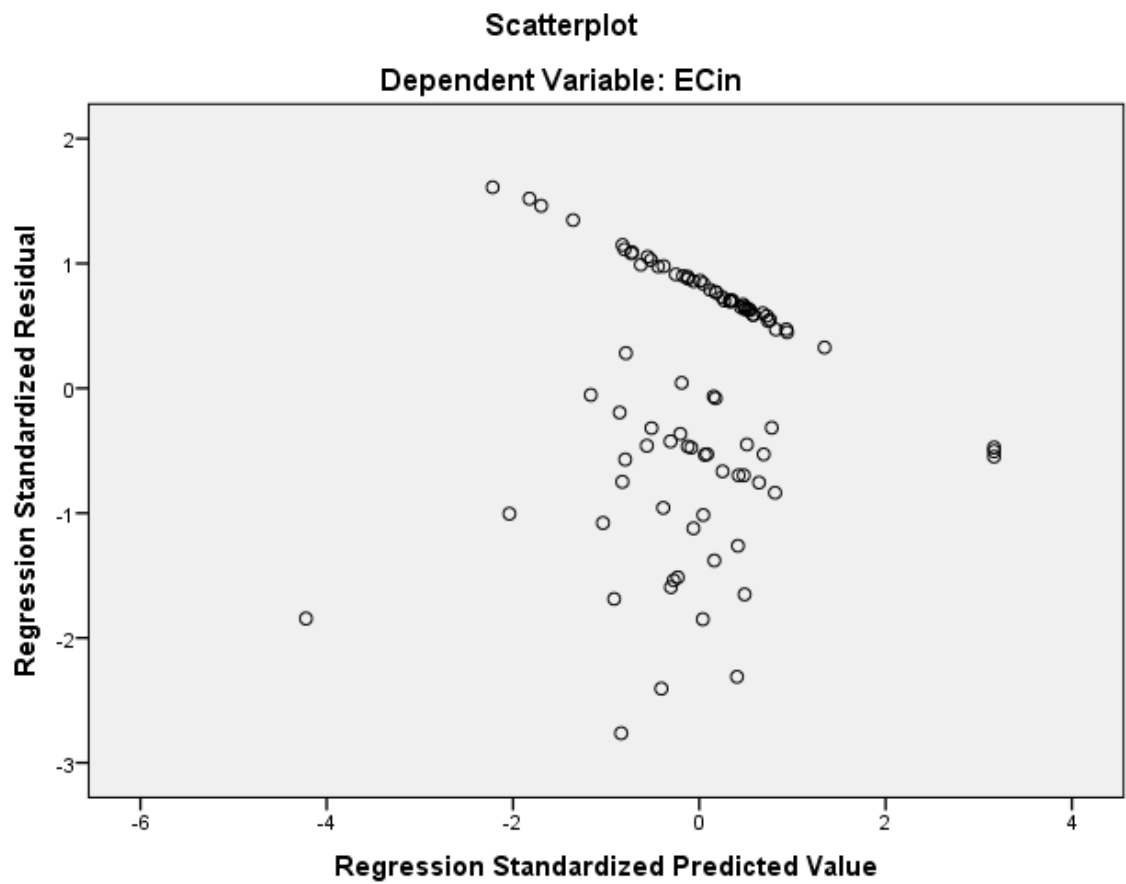
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECin

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:53:30	
Comments		
Input	Active Dataset	DataSet7

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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	6112 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_con	.	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCinN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.394 ^a	.155	.145	.01922372378 1250

a. Predictors: (Constant), S_con

b. Dependent Variable: PL_EVCinN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.006	1	.006	16.306	.000 ^b
	Residual	.033	89	.000		
	Total	.039	90			

a. Dependent Variable: PL_EVCinN

b. Predictors: (Constant), S_con

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.004	.003		1.643	.104
	S_con	.610	.151	.394	4.038	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_con	1.000	1.000

a. Dependent Variable: PL_EVCinN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpinN	.150 ^b	1.507	.135	.159	.950	1.053
	PL_TSpinN	.124 ^b	1.237	.220	.131	.933	1.072
	R_con	.170 ^b	1.633	.106	.172	.862	1.161
	SMSP_d	.130 ^b	1.332	.186	.141	.984	1.017

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpinN	.950	
	PL_TSpinN	.933	
	R_con	.862	

SMSP_d	.984
--------	------

a. Dependent Variable: PL_EVCinN

b. Predictors in the Model: (Constant), S_con

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_con
1	1	1.636	1.000	.18	.18
	2	.364	2.119	.82	.82

a. Dependent Variable: PL_EVCinN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00428781099 6175	.05887227877 9745	.01098901098 9011	.00818265313 6639
Std. Predicted Value	-.819	5.852	.000	1.000
Standard Error of Predicted Value	.002	.012	.003	.001
Adjusted Predicted Value	.00399157358 3335	.05550403892 9939	.01103436313 0428	.00834013272 2356

Residual	- .04453127086 1626	.06144619733 0952	.00000000000 0000	.01911662699 3735
Std. Residual	-2.316	3.196	.000	.994
Stud. Residual	-2.586	3.215	-.001	1.011
Deleted Residual	- .05550403892 9939	.06216083467 0067	- .00004535214 1417	.01981813824 7707
Stud. Deleted Residual	-2.674	3.400	.009	1.045
Mahal. Distance	.000	34.244	.989	4.011
Cook's Distance	.000	.824	.020	.090
Centered Leverage Value	.000	.380	.011	.045

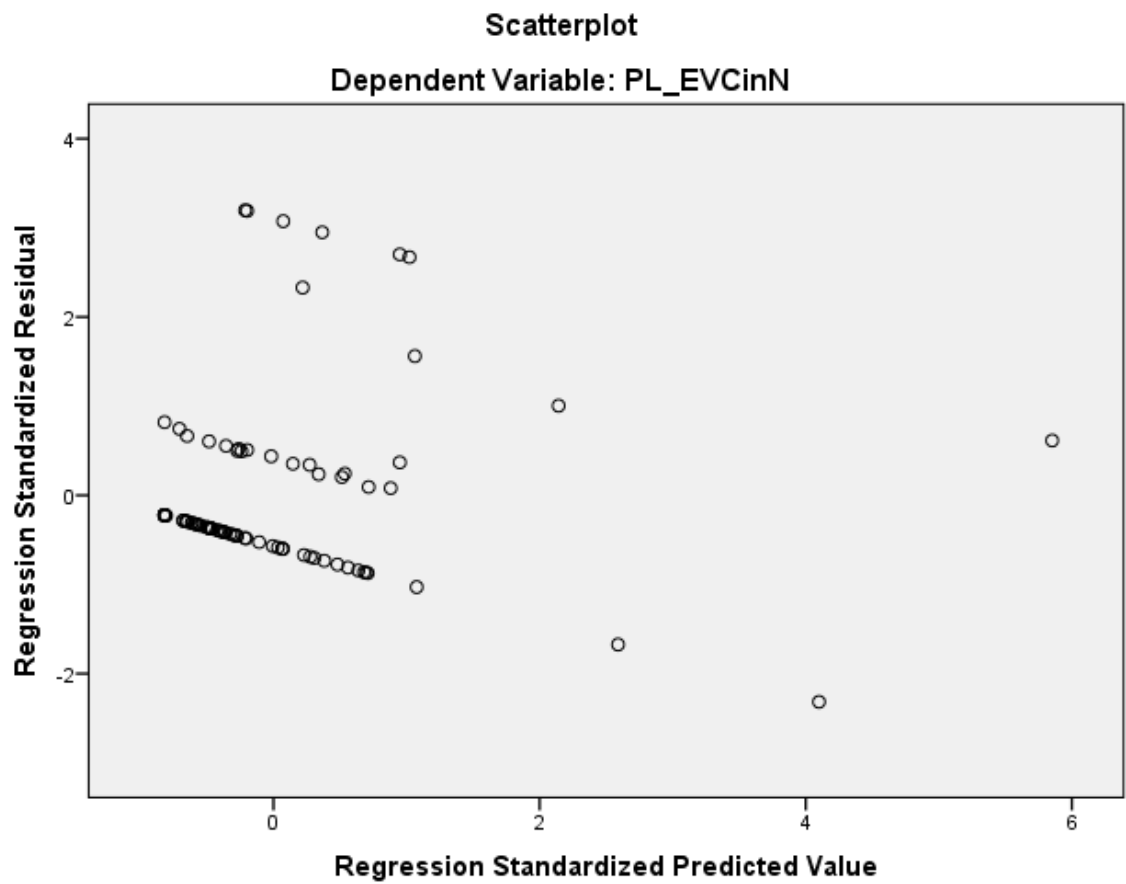
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCinN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TpinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:53:42	
Comments		
Input	Active Dataset	DataSet7

		Filter	<none>
		Weight	<none>
		Split File	<none>
		N of Rows in Working Data File	91
	Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
		Cases Used	Statistics are based on cases with no missing values for any variable used.
	Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCin_TpinN /METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
	Resources	Processor Time	00:00:00.03
		Elapsed Time	00:00:00.03
		Memory Required	6160 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_7	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCin_TSpinN

/METHOD=STEPWISE PL_TpinN PL_TSpinN S_con R_con SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:53:51
Comments		
Input	Active Dataset	DataSet7
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCin_TSpinN
		/METHOD=STEPWISE PL_TpinN
		PL_TSpinN S_con R_con SMSP_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.04
	Memory Required	6192 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or Modified	COO_8	
		Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECd

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:17:10
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECd /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.27
	Elapsed Time	00:00:00.30
	Memory Required	17200 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Created or Modified	COO_1	Cook's Distance
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Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	S_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECd

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.339 ^a	.115	.105	.00172118209 3937
2	.392 ^b	.153	.134	.00169265221 9271
3	.520 ^c	.271	.246	.00157984252 6008

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, R_d

c. Predictors: (Constant), Reciprocity, R_d, S_d

d. Dependent Variable: ECd

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.528	.001 ^b
	Residual	.000	89	.000		
	Total	.000	90			

2	Regression	.000	2	.000	7.973	.001 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	10.773	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			

a. Dependent Variable: ECd

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, R_d

d. Predictors: (Constant), Reciprocity, R_d, S_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		55.601	.000
	Reciprocity	-.029	.009	-.339	-3.395	.001
2	(Constant)	.034	.011		3.018	.003
	Reciprocity	-.025	.009	-.293	-2.905	.005
	R_d	-2.043	1.018	-.202	-2.006	.048
3	(Constant)	.075	.015		4.943	.000

Reciprocity	-.027	.008	-.321	-3.401	.001
R_d	-6.165	1.455	-.610	-4.239	.000
S_d	.328	.088	.538	3.744	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.948	1.055
	R_d	.948	1.055
3	(Constant)		
	Reciprocity	.942	1.061
	R_d	.405	2.469
	S_d	.406	2.466

a. Dependent Variable: ECd

Excluded Variables^a

Model	Beta In	t	Sig.	Partial	Collinearity Statistics
-------	---------	---	------	---------	-------------------------

					Correlation	Tolerance	VIF	Minimum Tolerance
1	Nodes	-.180 ^b	-1.813	.073	-.190	.988	1.012	.988
	Edges_d	-.192 ^b	-1.947	.055	-.203	.992	1.008	.992
	Den_d	.186 ^b	1.852	.067	.194	.956	1.046	.956
	CC_d	-.011 ^b	-.102	.919	-.011	.827	1.209	.827
	GD_d	-.097 ^b	-.936	.352	-.099	.931	1.074	.931
	Tpaths_d	-.170 ^b	-1.719	.089	-.180	.999	1.001	.999
	TSpaths_d	-.179 ^b	-1.820	.072	-.190	.999	1.001	.999
	AvgPL_d	-.024 ^b	-.236	.814	-.025	.938	1.066	.938
	AvgGL_d	-.023 ^b	-.226	.822	-.024	.974	1.026	.974
	PL_TpdN	-.113 ^b	-1.111	.270	-.118	.966	1.035	.966
	PL_TSpdN	-.062 ^b	-.599	.550	-.064	.942	1.062	.942
	S_d	.077 ^b	.751	.455	.080	.949	1.053	.949
	R_d	-.202 ^b	-2.006	.048	-.209	.948	1.055	.948
	SMSP_d	-.008 ^b	-.072	.942	-.008	.824	1.213	.824
2	Nodes	-.316 ^c	-3.045	.003	-.310	.819	1.222	.786
	Edges_d	-.310 ^c	-3.052	.003	-.311	.852	1.174	.814
	Den_d	.290 ^c	2.822	.006	.290	.843	1.187	.836
	CC_d	.004 ^c	.039	.969	.004	.823	1.215	.800
	GD_d	-.041 ^c	-.381	.704	-.041	.852	1.174	.852
	Tpaths_d	-.205 ^c	-2.106	.038	-.220	.975	1.026	.925
	TSpaths_d	-.222 ^c	-2.277	.025	-.237	.967	1.034	.917

	AvgPL_d	.005 ^c	.053	.958	.006	.918	1.089	.905
	AvgGL_d	.015 ^c	.149	.882	.016	.940	1.064	.915
	PL_TpdN	.022 ^c	.172	.863	.018	.583	1.714	.572
	PL_TSpdN	.097 ^c	.761	.449	.081	.595	1.682	.595
	S_d	.538 ^c	3.744	.000	.372	.406	2.466	.405
	SMSP_d	.008 ^c	.069	.945	.007	.820	1.220	.797
3	Nodes	-.130 ^d	-1.000	.320	-.107	.499	2.002	.247
	Edges_d	-.118 ^d	-.898	.372	-.096	.489	2.046	.233
	Den_d	-.007 ^d	-.041	.967	-.004	.324	3.083	.156
	CC_d	.013 ^d	.133	.895	.014	.823	1.216	.403
	GD_d	.034 ^d	.337	.737	.036	.818	1.222	.359
	Tpaths_d	.029 ^d	.235	.815	.025	.576	1.736	.240
	TSpaths_d	.008 ^d	.068	.946	.007	.557	1.794	.234
	AvgPL_d	.090 ^d	.915	.363	.098	.872	1.146	.377
	AvgGL_d	.065 ^d	.677	.500	.073	.922	1.084	.384
	PL_TpdN	.068 ^d	.564	.574	.061	.578	1.732	.295
	PL_TSpdN	.111 ^d	.938	.351	.101	.594	1.684	.318
	SMSP_d	.017 ^d	.165	.870	.018	.819	1.220	.403

a. Dependent Variable: ECd

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, R_d

d. Predictors in the Model: (Constant), Reciprocity, R_d, S_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	R_d
1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.324	1.000	.00	.06	.00
	2	.676	1.854	.00	.89	.00
	3	.000	135.867	1.00	.05	1.00
3	1	3.255	1.000	.00	.03	.00
	2	.702	2.153	.00	.93	.00
	3	.043	8.745	.00	.03	.00
	4	5.611E-5	240.864	1.00	.01	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		S_d
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.00
	3	.44
	4	.55

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00849461834 8777	.01358064357 1913	.01098901098 9011	.00094674173 9864
Std. Predicted Value	-2.635	2.737	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00841225311 1601	.01410577353 0900	.01100527135 7404	.00098028371 6453
Residual	- .00513211358 3386	.00349369784 8171	.00000000000 0000	.00155328865 9613
Std. Residual	-3.248	2.211	.000	.983
Stud. Residual	-3.283	2.245	-.005	1.012
Deleted Residual	- .00539141334 5933	.00360194384 1204	- .00001626036 8393	.00164650823 0926

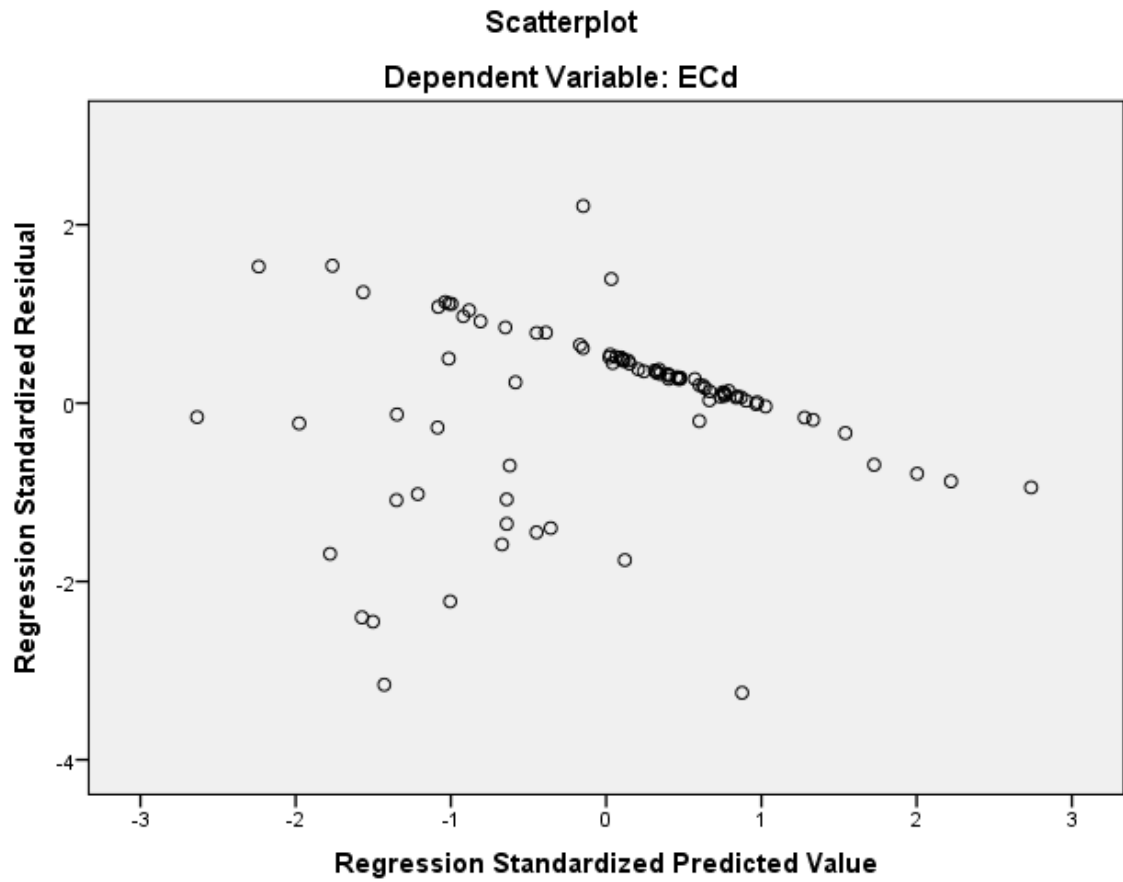
Stud. Deleted Residual	-3.487	2.300	-.012	1.036
Mahal. Distance	.270	22.424	2.967	4.073
Cook's Distance	.000	.217	.016	.035
Centered Leverage Value	.003	.249	.033	.045

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECd

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:17:58
Comments		
Input	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax		<p>Cases Used</p> <p>Statistics are based on cases with no missing values for any variable used.</p> <p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT PL_EVCdN</p> <p>/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	17232 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TpdN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.660 ^a	.436	.429	.01164600773 2625
2	.707 ^b	.500	.488	.01102646605 9529
3	.749 ^c	.561	.546	.01038561486 0888

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Tpaths_d

c. Predictors: (Constant), Reciprocity, Tpaths_d, PL_TpdN

d. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.009	1	.009	68.675	.000 ^b
	Residual	.012	89	.000		
	Total	.021	90			
2	Regression	.011	2	.005	43.946	.000 ^c
	Residual	.011	88	.000		
	Total	.021	90			
3	Regression	.012	3	.004	37.090	.000 ^d

Residual	.009	87	.000		
Total	.021	90			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Tpaths_d

d. Predictors: (Constant), Reciprocity, Tpaths_d, PL_TpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.001		4.162	.000
	Reciprocity	.479	.058	.660	8.287	.000
2	(Constant)	-.049	.016		-3.000	.004
	Reciprocity	.474	.055	.653	8.654	.000
	Tpaths_d	5.018	1.494	.253	3.359	.001
3	(Constant)	-.075	.017		-4.369	.000
	Reciprocity	.438	.053	.604	8.337	.000
	Tpaths_d	6.111	1.442	.309	4.239	.000
	PL_TpdN	1.260	.361	.258	3.492	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.999	1.001
	Tpaths_d	.999	1.001
3	(Constant)		
	Reciprocity	.962	1.040
	Tpaths_d	.952	1.050
	PL_TpdN	.921	1.086

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.186 ^b	2.380	.019	.246	.988	1.012	.988
	Edges_d	.198 ^b	2.552	.012	.262	.992	1.008	.992
	Den_d	-.145 ^b	-1.798	.076	-.188	.956	1.046	.956

	CC_d	.018 ^b	.205	.838	.022	.827	1.209	.827
	GD_d	.162 ^b	1.994	.049	.208	.931	1.074	.931
	Tpaths_d	.253 ^b	3.359	.001	.337	.999	1.001	.999
	TSpaths_d	.245 ^b	3.232	.002	.326	.999	1.001	.999
	AvgPL_d	.209 ^b	2.625	.010	.269	.938	1.066	.938
	AvgGL_d	.182 ^b	2.313	.023	.239	.974	1.026	.974
	PL_TpdN	.190 ^b	2.412	.018	.249	.966	1.035	.966
	PL_TSpdN	.152 ^b	1.872	.064	.196	.942	1.062	.942
	S_d	-.008 ^b	-.101	.919	-.011	.949	1.053	.949
	R_d	.182 ^b	2.276	.025	.236	.948	1.055	.948
	SMSP_d	.017 ^b	.191	.849	.020	.824	1.213	.824
2	Nodes	-.062 ^c	-.472	.638	-.051	.337	2.971	.337
	Edges_d	-.042 ^c	-.308	.759	-.033	.308	3.244	.308
	Den_d	.156 ^c	1.249	.215	.133	.364	2.747	.364
	CC_d	.013 ^c	.150	.881	.016	.827	1.209	.827
	GD_d	.078 ^c	.934	.353	.100	.813	1.231	.813
	TSpaths_d	-.240 ^c	-.484	.630	-.052	.023	42.920	.023
	AvgPL_d	.055 ^c	.510	.611	.055	.493	2.028	.493
	AvgGL_d	.043 ^c	.448	.655	.048	.620	1.614	.620
	PL_TpdN	.258 ^c	3.492	.001	.351	.921	1.086	.921
	PL_TSpdN	.234 ^c	3.039	.003	.310	.880	1.136	.880
	S_d	.180 ^c	2.009	.048	.211	.682	1.466	.682
	R_d	.228 ^c	3.040	.003	.310	.925	1.081	.925

	SMSP_d	.011 ^c	.128	.898	.014	.824	1.214	.824
3	Nodes	.105 ^d	.797	.428	.086	.293	3.407	.293
	Edges_d	.109 ^d	.804	.424	.086	.278	3.597	.278
	Den_d	.067 ^d	.554	.581	.060	.346	2.891	.346
	CC_d	.027 ^d	.342	.733	.037	.825	1.212	.795
	GD_d	-.040 ^d	-.467	.642	-.050	.678	1.475	.678
	TSpaths_d	-.042 ^d	-.089	.929	-.010	.023	43.573	.023
	AvgPL_d	-.033 ^d	-.310	.757	-.033	.464	2.154	.464
	AvgGL_d	-.041 ^d	-.442	.660	-.048	.578	1.731	.568
	PL_TSpdN	-.103 ^d	-.486	.629	-.052	.113	8.858	.113
	S_d	.079 ^d	.850	.398	.091	.586	1.706	.586
	R_d	.111 ^d	1.183	.240	.127	.572	1.748	.569
	SMSP_d	.025 ^d	.317	.752	.034	.821	1.217	.792

a. Dependent Variable: PL_EVCdN

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, Tpaths_d

d. Predictors in the Model: (Constant), Reciprocity, Tpaths_d, PL_TpdN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Tpaths_d

1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.320	1.000	.00	.07	.00
	2	.677	1.851	.00	.93	.00
	3	.002	30.644	1.00	.00	1.00
3	1	3.239	1.000	.00	.03	.00
	2	.704	2.144	.00	.95	.00
	3	.054	7.745	.01	.02	.02
	4	.002	38.420	.99	.01	.98

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions	
		PL_TpdN	
1	1		
	2		
2	1		
	2		
	3		
3	1		.01
	2		.00
	3		.87
	4		.12

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

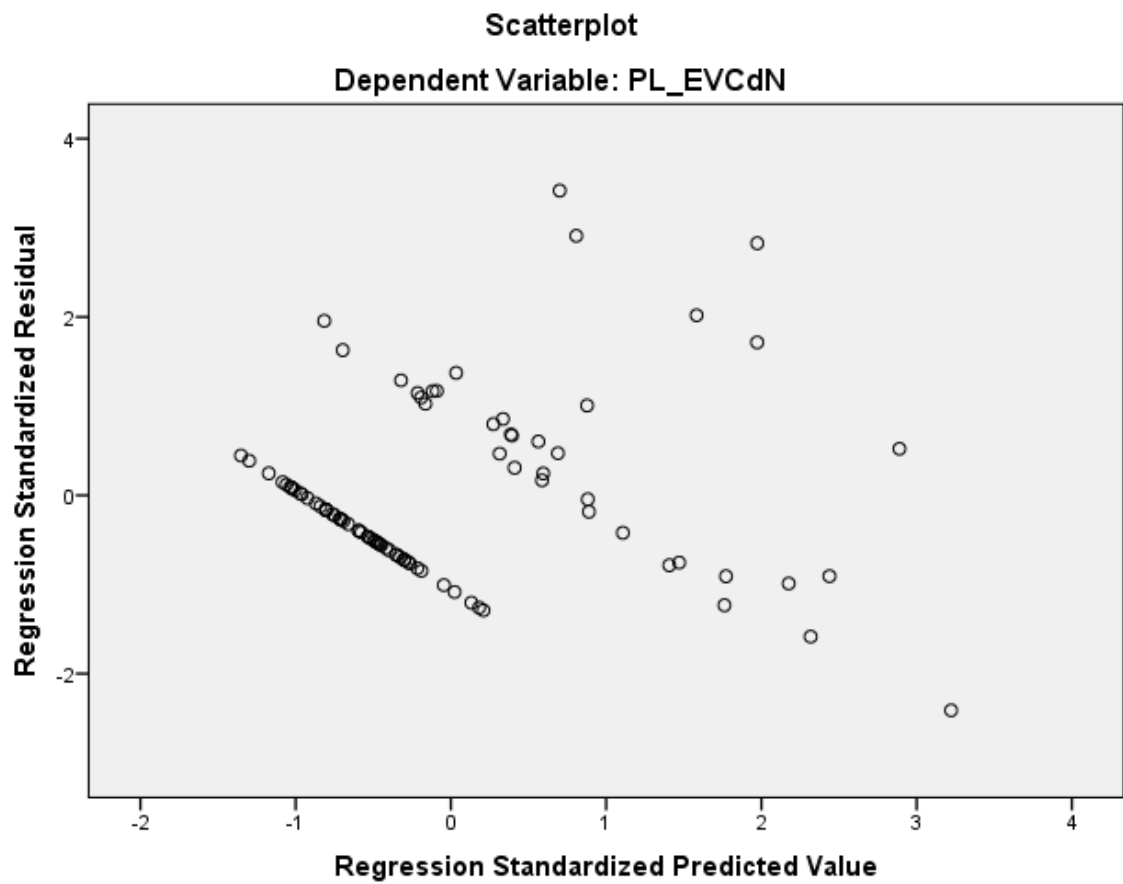
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00463034678 2506	.04819436743 8555	.01098901098 9011	.01154774380 0552
Std. Predicted Value	-1.353	3.222	.000	1.000
Standard Error of Predicted Value	.001	.006	.002	.001
Adjusted Predicted Value	- .00541894230 9916	.05293686687 9463	.01091496160 0109	.01158217733 3844
Residual	- .02505058236 4202	.03548808023 3335	.00000000000 0000	.01021105427 9753
Std. Residual	-2.412	3.417	.000	.983
Stud. Residual	-2.630	3.564	.003	1.021
Deleted Residual	- .02979308366 7755	.03860728070 1399	.00007404938 8902	.01104933820 6871
Stud. Deleted Residual	-2.726	3.834	.010	1.048
Mahal. Distance	.274	25.658	2.967	3.980
Cook's Distance	.000	.439	.022	.069
Centered Leverage Value	.003	.285	.033	.044

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TpdN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:18:23
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCd_TpdN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpdN AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
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	Memory Required	17280 bytes
	Additional Memory Required for Residual Plots	0 bytes
	Variables Created or Modified	COO_3 Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCd_TpdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.335 ^a	.112	.102	.00517938430 1938
2	.388 ^b	.151	.132	.00509423548 6023

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Edges_d

c. Dependent Variable: EVCd_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.253	.001 ^b
	Residual	.002	89	.000		
	Total	.003	90			
2	Regression	.000	2	.000	7.816	.001 ^c
	Residual	.002	88	.000		
	Total	.003	90			

a. Dependent Variable: EVCd_TpdN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Edges_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.012	.001		19.504	.000
	Reciprocity	-.086	.026	-.335	-3.355	.001
2	(Constant)	.015	.001		10.141	.000
	Reciprocity	-.091	.025	-.353	-3.579	.001
	Edges_d	-.232	.116	-.197	-2.000	.049

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.992	1.008
	Edges_d	.992	1.008

a. Dependent Variable: EVCd_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.175 ^b	-1.757	.082	-.184	.988	1.012

	Edges_d	-.197 ^b	-2.000	.049	-.209	.992	1.008
	Den_d	.143 ^b	1.404	.164	.148	.956	1.046
	CC_d	.150 ^b	1.371	.174	.145	.827	1.209
	GD_d	-.055 ^b	-.526	.601	-.056	.931	1.074
	Tpaths_d	-.156 ^b	-1.576	.119	-.166	.999	1.001
	TSpaths_d	-.177 ^b	-1.791	.077	-.188	.999	1.001
	AvgPL_d	-.005 ^b	-.047	.963	-.005	.938	1.066
	AvgGL_d	-.045 ^b	-.446	.656	-.048	.974	1.026
	PL_TpdN	-.101 ^b	-.991	.324	-.105	.966	1.035
	PL_TSpdN	-.027 ^b	-.257	.797	-.027	.942	1.062
	S_d	.147 ^b	1.444	.152	.152	.949	1.053
	R_d	-.066 ^b	-.644	.521	-.069	.948	1.055
	SMSP_d	.149 ^b	1.364	.176	.144	.824	1.213
2	Nodes	1.123 ^c	1.577	.118	.167	.019	53.438
	Den_d	-.090 ^c	-.483	.630	-.052	.280	3.573
	CC_d	.154 ^c	1.433	.156	.152	.827	1.209
	GD_d	-.053 ^c	-.522	.603	-.056	.931	1.074
	Tpaths_d	.022 ^c	.126	.900	.014	.311	3.220
	TSpaths_d	-.036 ^c	-.194	.846	-.021	.282	3.552
	AvgPL_d	.046 ^c	.436	.664	.047	.885	1.129
	AvgGL_d	-.020 ^c	-.194	.847	-.021	.957	1.044
	PL_TpdN	-.195 ^c	-1.851	.068	-.195	.847	1.180

PL_TSpdN	-.115 ^c	-1.061	.292	-.113	.818	1.223
S_d	.019 ^c	.136	.892	.015	.511	1.958
R_d	-.165 ^c	-1.531	.129	-.162	.814	1.228
SMSP_d	.154 ^c	1.429	.156	.151	.824	1.214

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.988
	Edges_d	.992
	Den_d	.956
	CC_d	.827
	GD_d	.931
	Tpaths_d	.999
	TSpaths_d	.999
	AvgPL_d	.938
	AvgGL_d	.974
	PL_TpdN	.966
	PL_TSpdN	.942
	S_d	.949
	R_d	.948
	SMSP_d	.824

2	Nodes	.019
	Den_d	.280
	CC_d	.821
	GD_d	.924
	Tpaths_d	.308
	TSpaths_d	.279
	AvgPL_d	.885
	AvgGL_d	.957
	PL_TpdN	.847
	PL_TSpdN	.818
	S_d	.511
	R_d	.814
	SMSP_d	.817

a. Dependent Variable: EVCd_TpdN

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, Edges_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Edges_d

1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.222	1.000	.03	.07	.03
	2	.703	1.777	.01	.89	.03
	3	.075	5.442	.96	.04	.95

a. Dependent Variable: EVCd_TpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00445974199 1013	.01335168071 0912	.01098901098 9011	.00212311551 5801
Std. Predicted Value	-3.075	1.113	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	.00350793916 7321	.01344903558 4927	.01097960023 4981	.00218254206 7282
Residual	- .01277176942 6763	.00809195730 8352	.00000000000 0000	.00503731486 7247
Std. Residual	-2.507	1.588	.000	.989
Stud. Residual	-2.533	1.833	.001	1.011
Deleted Residual	- .01304154749 9597	.01077069994 0622	.00000941075 4030	.00528032007 3231

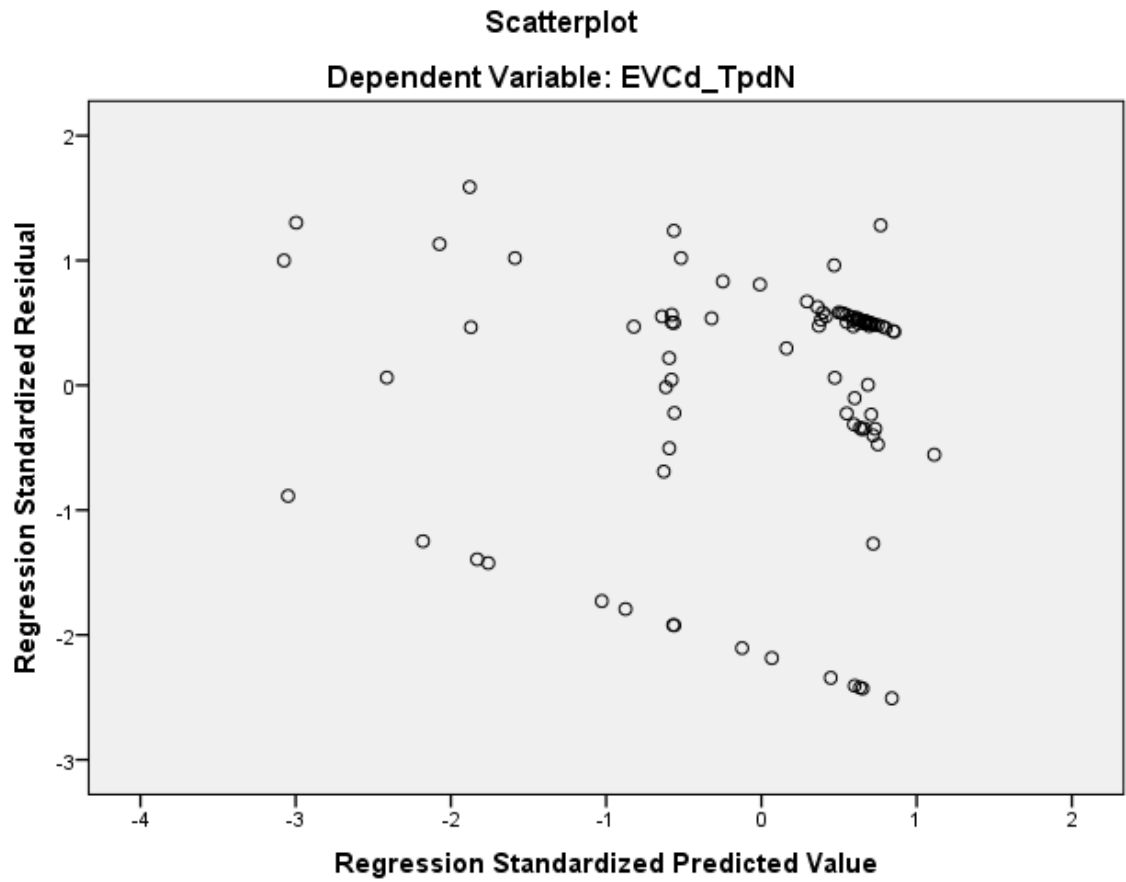
Stud. Deleted Residual	-2.616	1.858	-.006	1.026
Mahal. Distance	.268	33.422	1.978	4.549
Cook's Distance	.000	.371	.017	.050
Centered Leverage Value	.003	.371	.022	.051

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCd_TpdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TSpdN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpdN_d
AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax		<p>Cases Used</p> <p>Statistics are based on cases with no missing values for any variable used.</p> <p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT EVCd_TSpdN</p> <p>/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpdN AvgPL_d AvgGL_d PL_TpdN PL_TSpdN S_d R_d SMSP_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	17312 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCd_TSpdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.347 ^a	.121	.111	.00518618473 1295
2	.399 ^b	.159	.140	.00509999058 7392

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Edges_d

c. Dependent Variable: EVCd_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	12.222	.001 ^b
	Residual	.002	89	.000		
	Total	.003	90			
2	Regression	.000	2	.000	8.336	.000 ^c
	Residual	.002	88	.000		
	Total	.003	90			

a. Dependent Variable: EVCd_TSpdN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Edges_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.012	.001		19.546	.000
	Reciprocity	-.090	.026	-.347	-3.496	.001
2	(Constant)	.015	.001		10.168	.000
	Reciprocity	-.095	.025	-.365	-3.724	.000
	Edges_d	-.233	.116	-.197	-2.008	.048

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.992	1.008
	Edges_d	.992	1.008

a. Dependent Variable: EVCd_TSpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.174 ^b	-1.759	.082	-.184	.988	1.012

	Edges_d	-.197 ^b	-2.008	.048	-.209	.992	1.008
	Den_d	.141 ^b	1.396	.166	.147	.956	1.046
	CC_d	.126 ^b	1.154	.251	.122	.827	1.209
	GD_d	-.053 ^b	-.515	.608	-.055	.931	1.074
	Tpaths_d	-.153 ^b	-1.553	.124	-.163	.999	1.001
	TSpaths_d	-.176 ^b	-1.787	.077	-.187	.999	1.001
	AvgPL_d	.003 ^b	.024	.981	.003	.938	1.066
	AvgGL_d	-.044 ^b	-.431	.668	-.046	.974	1.026
	PL_TpdN	-.105 ^b	-1.034	.304	-.110	.966	1.035
	PL_TSpdN	-.031 ^b	-.304	.762	-.032	.942	1.062
	S_d	.143 ^b	1.412	.162	.149	.949	1.053
	R_d	-.070 ^b	-.681	.498	-.072	.948	1.055
	SMSP_d	.125 ^b	1.148	.254	.121	.824	1.213
2	Nodes	1.149 ^c	1.623	.108	.171	.019	53.438
	Den_d	-.095 ^c	-.509	.612	-.055	.280	3.573
	CC_d	.130 ^c	1.212	.229	.129	.827	1.209
	GD_d	-.052 ^c	-.512	.610	-.055	.931	1.074
	Tpaths_d	.032 ^c	.179	.859	.019	.311	3.220
	TSpaths_d	-.032 ^c	-.175	.862	-.019	.282	3.552
	AvgPL_d	.054 ^c	.513	.609	.055	.885	1.129
	AvgGL_d	-.018 ^c	-.177	.860	-.019	.957	1.044
	PL_TpdN	-.199 ^c	-1.903	.060	-.200	.847	1.180

PL_TSpdN	-.120 ^c	-1.116	.268	-.119	.818	1.223
S_d	.012 ^c	.085	.933	.009	.511	1.958
R_d	-.169 ^c	-1.576	.119	-.167	.814	1.228
SMSP_d	.130 ^c	1.209	.230	.129	.824	1.214

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.988
	Edges_d	.992
	Den_d	.956
	CC_d	.827
	GD_d	.931
	Tpaths_d	.999
	TSpaths_d	.999
	AvgPL_d	.938
	AvgGL_d	.974
	PL_TpdN	.966
	PL_TSpdN	.942
	S_d	.949
	R_d	.948
	SMSP_d	.824

2	Nodes	.019
	Den_d	.280
	CC_d	.821
	GD_d	.924
	Tpaths_d	.308
	TSpaths_d	.279
	AvgPL_d	.885
	AvgGL_d	.957
	PL_TpdN	.847
	PL_TSpdN	.818
	S_d	.511
	R_d	.814
	SMSP_d	.817

a. Dependent Variable: EVCd_TSpdN

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, Edges_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Edges_d

1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.222	1.000	.03	.07	.03
	2	.703	1.777	.01	.89	.03
	3	.075	5.442	.96	.04	.95

a. Dependent Variable: EVCd_TSpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00417436659 3361	.01340045314 2822	.01098901098 9011	.00219504771 4115
Std. Predicted Value	-3.105	1.099	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	.00322050857 3577	.01349783036 8578	.01097998930 3089	.00225094546 0031
Residual	- .01281744800 5080	.00813194271 1771	.00000000000 0000	.00504300566 3789
Std. Residual	-2.513	1.595	.000	.989
Stud. Residual	-2.540	1.840	.001	1.010
Deleted Residual	- .01308819092 8102	.01082392223 1793	.00000902168 5922	.00528142509 3307

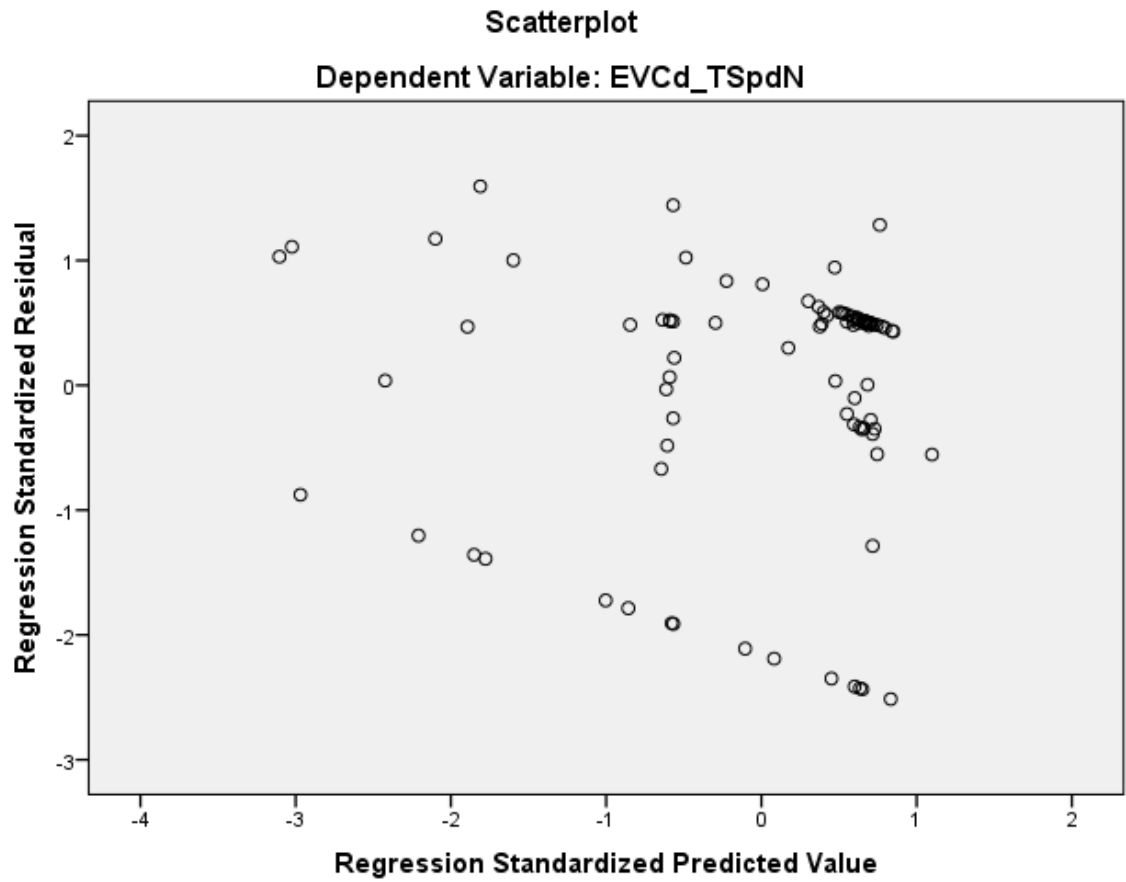
Stud. Deleted Residual	-2.623	1.865	-.006	1.026
Mahal. Distance	.268	33.422	1.978	4.549
Cook's Distance	.000	.373	.017	.049
Centered Leverage Value	.003	.371	.022	.051

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCd_TSpdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECd

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.	
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Resources	Processor Time		00:00:00.03
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Variables Created or Modified	COO_11	Cook's Distance	

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:08:40
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Input	Active Dataset DataSet1

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	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCdN /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.17
	Elapsed Time		00:00:00.17
	Memory Required	6352 bytes	

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_12	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.360 ^a	.130	.120	.01446026878 2976

a. Predictors: (Constant), AvgPL_d

b. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.003	1	.003	13.274	.000 ^b
	Residual	.019	89	.000		
	Total	.021	90			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.018	.008		-2.218	.029
	AvgPL_d	2.630	.722	.360	3.643	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.143 ^b	1.039	.302	.110	.518	1.930
	Tpaths_d	.053 ^b	.397	.692	.042	.546	1.832
	TSpaths_d	.022 ^b	.181	.857	.019	.659	1.517
	AvgGL_d	-.183 ^b	-.838	.404	-.089	.205	4.869

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.518	
	Tpaths_d	.546	
	TSpaths_d	.659	

AvgGL_d	.205
---------	------

a. Dependent Variable: PL_EVCdN

b. Predictors in the Model: (Constant), AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgPL_d
1	1	1.982	1.000	.01	.01
	2	.018	10.562	.99	.99

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00779350008 8155	.04200490564 1079	.01098901098 9011	.00555337460 2986
Std. Predicted Value	-.575	5.585	.000	1.000
Standard Error of Predicted Value	.002	.009	.002	.001
Adjusted Predicted Value	.00752784311 7714	.05475990846 7531	.01112117359 2305	.00643131627 7708

Residual	- .02291575074 1959	.05173186585 3071	.00000000000 0000	.01437970955 5696
Std. Residual	-1.585	3.578	.000	.994
Stud. Residual	-1.977	3.597	-.004	1.013
Deleted Residual	- .03567075356 8411	.05230991169 8103	- .00013216260 3294	.01499214038 8575
Stud. Deleted Residual	-2.011	3.870	.003	1.035
Mahal. Distance	.001	31.193	.989	3.831
Cook's Distance	.000	1.088	.024	.117
Centered Leverage Value	.000	.347	.011	.043

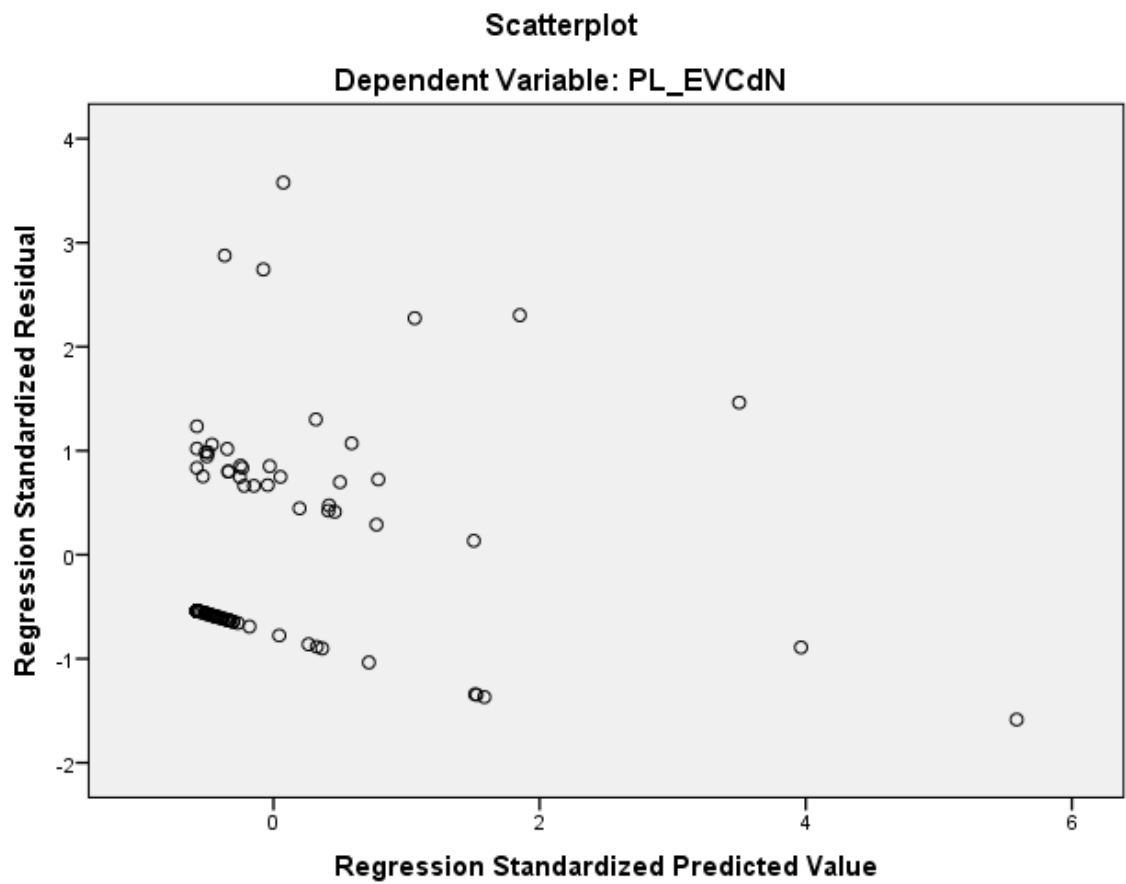
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TpdN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:08:58
Comments	
Input	Active Dataset
	DataSet1

	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCd_TpdN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.06
	Elapsed Time	00:00:00.07
	Memory Required	6400 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_13	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TSpdN

/METHOD=STEPWISE GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:09:09
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCd_TSpdN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.04
	Memory Required	6432 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_14	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:10:03	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>

	Split File	<none>
	N of Rows in Working Data File	90
	Missing Value Handling	
	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
Resources		/DEPENDENT PL_EVCdN
		/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	6480 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Created or Modified	COO_15	Cook's Distance
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Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.407 ^a	.165	.156	.01421923397 2018
2	.514 ^b	.264	.247	.01342959870 4957

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

c. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.004	1	.004	17.443	.000 ^b
	Residual	.018	88	.000		
	Total	.021	89			
2	Regression	.006	2	.003	15.603	.000 ^c
	Residual	.016	87	.000		
	Total	.021	89			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.029	.010		-3.000	.004
	AvgPL_d	3.679	.881	.407	4.176	.000
2	(Constant)	-.007	.011		-.672	.503
	AvgPL_d	11.739	2.503	1.298	4.689	.000
	AvgGL_d	-9.965	2.919	-.945	-3.414	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.110	9.055
	AvgGL_d	.110	9.055

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.102 ^b	.789	.432	.084	.572	1.749
	Tpaths_d	.003 ^b	.022	.982	.002	.573	1.746
	TSpaths_d	-.049 ^b	-.395	.694	-.042	.623	1.605
	AvgGL_d	-.945 ^b	-3.414	.001	-.344	.110	9.055
2	GD_d	.060 ^c	.485	.629	.052	.566	1.768
	Tpaths_d	-.083 ^c	-.665	.508	-.072	.550	1.818
	TSpaths_d	-.082 ^c	-.703	.484	-.076	.619	1.616

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.572
	Tpaths_d	.573
	TSpaths_d	.623
	AvgGL_d	.110
2	GD_d	.096
	Tpaths_d	.089

TSpaths_d	.099
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- a. Dependent Variable: PL_EVCdN
- b. Predictors in the Model: (Constant), AvgPL_d
- c. Predictors in the Model: (Constant), AvgPL_d, AvgGL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgPL_d	AvgGL_d
1	1	1.988	1.000	.01	.01	
	2	.012	12.840	.99	.99	
2	1	2.985	1.000	.00	.00	.00
	2	.014	14.762	.77	.05	.01
	3	.001	51.390	.23	.95	.99

- a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00662518059 8348	.06554999202 4899	.01089900940 1771	.00795230980 1685

Std. Predicted Value	- .537	6.872	.000	1.000
Standard Error of Predicted Value	.001	.010	.002	.001
Adjusted Predicted Value	.00632271962 2403	.08442642539 7396	.01112793580 4117	.00954149643 8125
Residual	- .01779650710 5231	.05138371512 2938	.00000000000 0000	.01327784695 5445
Std. Residual	-1.325	3.826	.000	.989
Stud. Residual	-1.595	3.848	-.007	1.013
Deleted Residual	- .03284906595 9454	.05197886377 5730	- .00022892640 2346	.01410375957 1159
Stud. Deleted Residual	-1.610	4.200	.003	1.045
Mahal. Distance	.003	50.154	1.978	6.656
Cook's Distance	.000	1.146	.025	.129
Centered Leverage Value	.000	.564	.022	.075

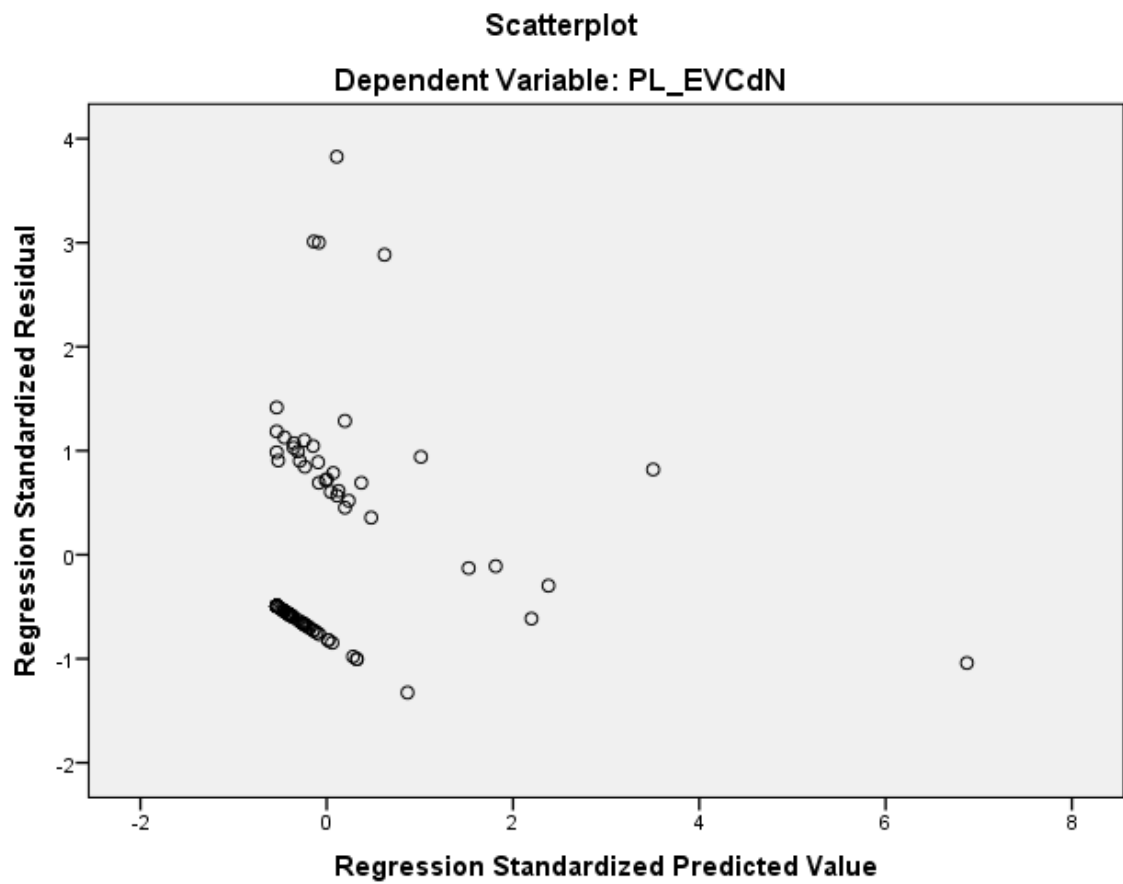
Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90

Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:11:01
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT PL_EVCdN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.16
	Memory Required	6512 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_16	Cook's Distance
Modified		

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.325 ^a	.106	.095	.01421228054 9338
2	.474 ^b	.225	.207	.01330842555 8647

a. Predictors: (Constant), AvgPL_d

b. Predictors: (Constant), AvgPL_d, AvgGL_d

c. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.002	1	.002	10.262	.002 ^b
	Residual	.018	87	.000		
	Total	.020	88			
2	Regression	.004	2	.002	12.461	.000 ^c
	Residual	.015	86	.000		
	Total	.020	88			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), AvgPL_d

c. Predictors: (Constant), AvgPL_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.024	.011		-2.209	.030

	AvgPL_d	3.192	.996	.325	3.203	.002
2	(Constant)	-.008	.011		-.753	.453
	AvgPL_d	16.086	3.667	1.637	4.387	.000
	AvgGL_d	-14.169	3.897	-1.357	-3.636	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgPL_d	1.000	1.000
2	(Constant)		
	AvgPL_d	.065	15.445
	AvgGL_d	.065	15.445

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.135 ^b	1.005	.318	.108	.570	1.753
	Tpaths_d	-.049 ^b	-.404	.687	-.044	.714	1.400
	TSpaths_d	-.088 ^b	-.755	.452	-.081	.755	1.325

	AvgGL_d	-1.357 ^b	-3.636	.000	-.365	.065	15.445
2	GD_d	-.010 ^c	-.074	.941	-.008	.514	1.946
	Tpaths_d	-.015 ^c	-.130	.897	-.014	.709	1.410
	TSpaths_d	-.019 ^c	-.167	.867	-.018	.731	1.368

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.570
	Tpaths_d	.714
	TSpaths_d	.755
	AvgGL_d	.065
2	GD_d	.050
	Tpaths_d	.064
	TSpaths_d	.063

a. Dependent Variable: PL_EVCdN

b. Predictors in the Model: (Constant), AvgPL_d

c. Predictors in the Model: (Constant), AvgPL_d, AvgGL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	AvgPL_d	AvgGL_d
1	1	1.990	1.000	.00	.00	
	2	.010	14.322	1.00	1.00	
2	1	2.988	1.000	.00	.00	.00
	2	.012	15.845	.91	.02	.01
	3	.001	71.266	.08	.98	.99

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00584182795 1372	.04945338517 4274	.01044194932 5916	.00708227571 5382
Std. Predicted Value	-.650	5.508	.000	1.000
Standard Error of Predicted Value	.001	.009	.002	.001
Adjusted Predicted Value	.00549955153 8378	.04919028282 1655	.01055358658 2987	.00749523153 9803
Residual	- .02007750794 2915	.05083366483 4499	.00000000000 0000	.01315632427 1267
Std. Residual	-1.509	3.820	.000	.989
Stud. Residual	-1.534	3.843	-.004	1.007

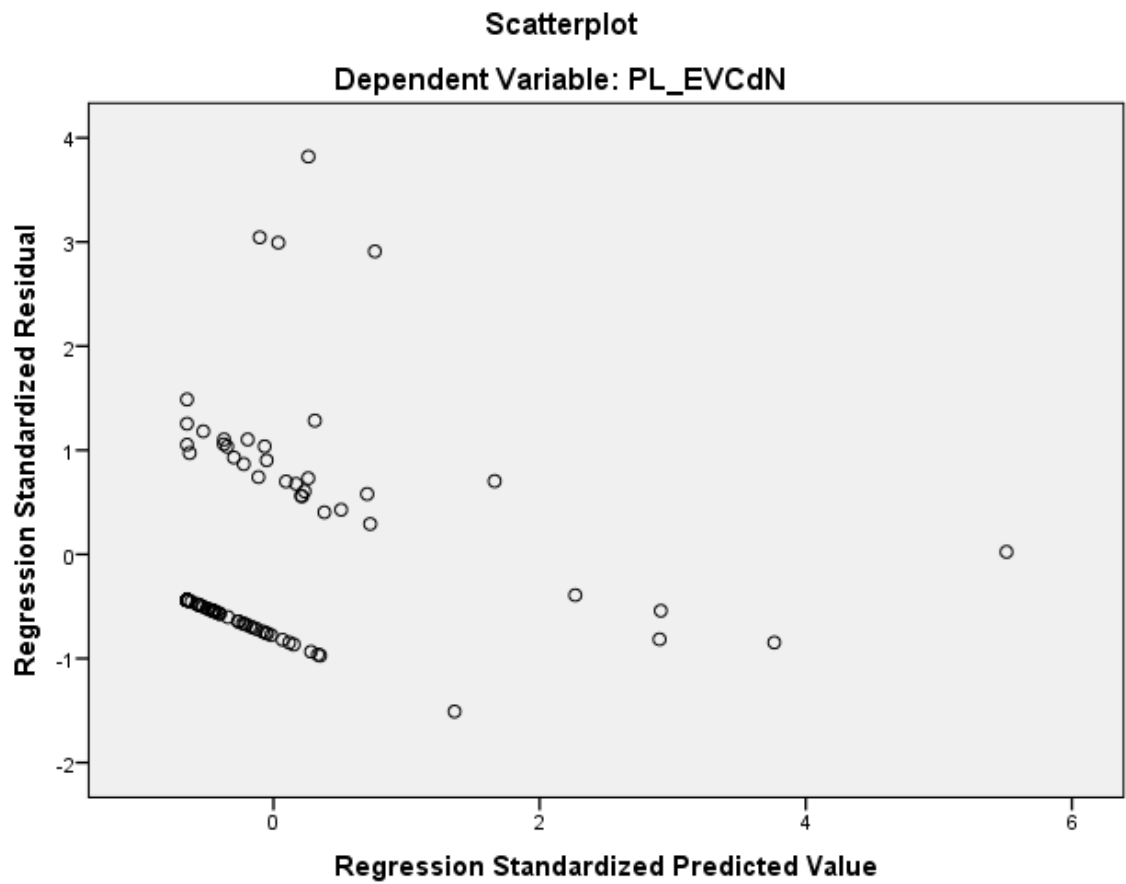
Deleted Residual	- .02076643146 5745	.05145675688 9820	- .00011163725 7071	.01368895868 3782
Stud. Deleted Residual	-1.547	4.198	.007	1.040
Mahal. Distance	.009	39.133	1.978	5.940
Cook's Distance	.000	.440	.014	.054
Centered Leverage Value	.000	.445	.022	.067

Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89
Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89
Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

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/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TpdN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:05:44	
Comments			
Input	Active Dataset	DataSet1	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File	91	

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TpdN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.22
	Memory Required	6112 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TpdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.327 ^a	.107	.097	.00300457536 0606
2	.475 ^b	.226	.208	.00281313423 6479

a. Predictors: (Constant), GD_d

b. Predictors: (Constant), GD_d, Tpaths_d

c. Dependent Variable: PL_TpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	10.626	.002 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	12.823	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: PL_TpdN

b. Predictors: (Constant), GD_d

c. Predictors: (Constant), GD_d, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.008	.001		7.546	.000
	GD_d	.291	.089	.327	3.260	.002
2	(Constant)	.023	.004		5.418	.000
	GD_d	.407	.089	.456	4.552	.000
	Tpaths_d	-1.497	.407	-.369	-3.678	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000
2	(Constant)		
	GD_d	.876	1.141
	Tpaths_d	.876	1.141

a. Dependent Variable: PL_TpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.369 ^b	-3.678	.000	-.365	.876	1.141

	TSpaths_d	-.352 ^b	-3.595	.001	-.358	.923	1.084
	AvgPL_d	-.309 ^b	-2.272	.026	-.235	.518	1.930
	AvgGL_d	-.175 ^b	-1.366	.175	-.144	.608	1.646
2	TSpaths_d	.124 ^c	.191	.849	.021	.021	47.186
	AvgPL_d	-.006 ^c	-.033	.974	-.004	.307	3.254
	AvgGL_d	.076 ^c	.538	.592	.058	.443	2.257

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.876
	TSpaths_d	.923
	AvgPL_d	.518
	AvgGL_d	.608
2	TSpaths_d	.020
	AvgPL_d	.307
	AvgGL_d	.443

a. Dependent Variable: PL_TpdN

b. Predictors in the Model: (Constant), GD_d

c. Predictors in the Model: (Constant), GD_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_d	Tpaths_d
1	1	1.952	1.000	.02	.02	
	2	.048	6.396	.98	.98	
2	1	2.938	1.000	.00	.01	.00
	2	.059	7.035	.02	.92	.01
	3	.002	35.660	.98	.07	.99

a. Dependent Variable: PL_TpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00586854293 9425	.01390776410 6989	.01098901098 9011	.00150170900 3674
Std. Predicted Value	-3.410	1.944	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00673413695 7675	.01398271415 3826	.01100661498 9469	.00149307279 0175
Residual	- .00801898352 8018	.00867320038 3782	.00000000000 0000	.00278170158 2477
Std. Residual	-2.851	3.083	.000	.989

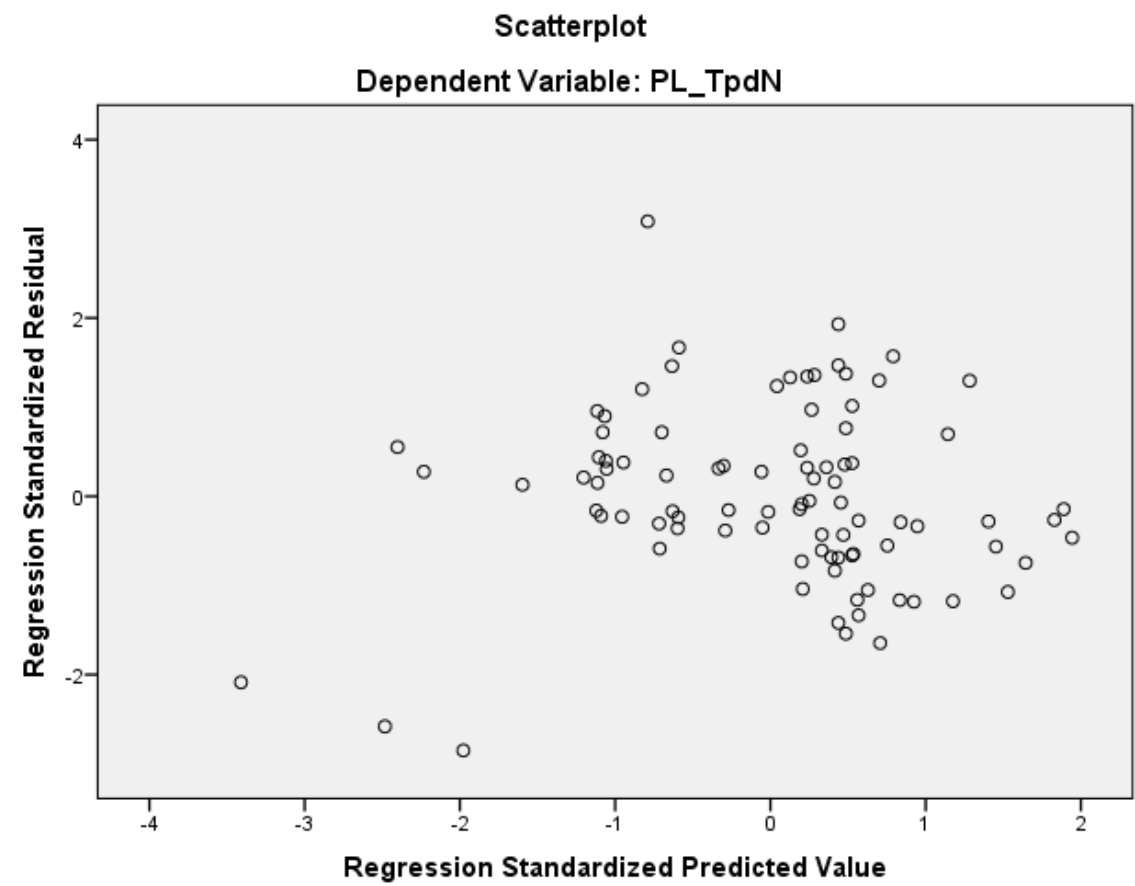
Stud. Residual	-2.933	3.145	-.003	1.011
Deleted Residual	-	-	-	-
	.00848710350	.00902490597	.00001760400	.00291307264
	6923	2183	0458	1583
Stud. Deleted Residual	-3.070	3.319	-.003	1.029
Mahal. Distance	.002	25.529	1.978	3.423
Cook's Distance	.000	.311	.016	.045
Centered Leverage Value	.000	.284	.022	.038

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_TpdN

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TSpdN

/METHOD=STEPWISE GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:06:06
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	Filter	<none>
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	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TSpdN /METHOD=STEPWISE GD_d Tpaths_d TSpdN_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	6160 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_7	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	TSpdN_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TSpdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.301 ^a	.090	.080	.003100698070255

2	.478 ^b	.228	.211	.00287212049 0401
---	-------------------	------	------	----------------------

a. Predictors: (Constant), GD_d

b. Predictors: (Constant), GD_d, TSpdN

c. Dependent Variable: PL_TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	8.850	.004 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	13.022	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: PL_TSpdN

b. Predictors: (Constant), GD_d

c. Predictors: (Constant), GD_d, TSpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.008	.001		7.487	.000
	GD_d	.275	.092	.301	2.975	.004
2	(Constant)	.026	.005		5.579	.000
	GD_d	.373	.089	.408	4.187	.000
	TSpaths_d	-1.751	.442	-.387	-3.966	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000
2	(Constant)		
	GD_d	.923	1.084
	TSpaths_d	.923	1.084

a. Dependent Variable: PL_TSpdN

Excluded Variables^a

Model	Beta In	t	Sig.	Partial	Collinearity Statistics
-------	---------	---	------	---------	-------------------------

					Correlation	Tolerance	VIF
1	Tpaths_d	-.396 ^b	-3.958	.000	-.389	.876	1.141
	TSpaths_d	-.387 ^b	-3.966	.000	-.389	.923	1.084
	AvgPL_d	-.298 ^b	-2.166	.033	-.225	.518	1.930
	AvgGL_d	-.194 ^b	-1.507	.135	-.159	.608	1.646
2	Tpaths_d	-.168 ^c	-.253	.801	-.027	.020	49.687
	AvgPL_d	-.009 ^c	-.058	.954	-.006	.352	2.839
	AvgGL_d	.084 ^c	.587	.559	.063	.435	2.299

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.876
	TSpaths_d	.923
	AvgPL_d	.518
	AvgGL_d	.608
2	Tpaths_d	.020
	AvgPL_d	.352
	AvgGL_d	.435

a. Dependent Variable: PL_TSpdN

b. Predictors in the Model: (Constant), GD_d

c. Predictors in the Model: (Constant), GD_d, TSpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_d	TSpaths_d
1	1	1.952	1.000	.02	.02	
	2	.048	6.396	.98	.98	
2	1	2.937	1.000	.00	.01	.00
	2	.061	6.966	.01	.96	.01
	3	.002	38.243	.99	.04	.99

a. Dependent Variable: PL_TSpdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00544277997 6875	.01394033245 7423	.01098901098 9011	.00154502903 7607
Std. Predicted Value	-3.590	1.910	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00635918835 1780	.01395591348 4097	.01100496717 4297	.00154433638 3111

Residual	- .00797263812 2737	.00841483939 4391	.00000000000 0000	.00284002875 1423
Std. Residual	-2.776	2.930	.000	.989
Stud. Residual	-2.856	2.990	-.003	1.013
Deleted Residual	- .00843803118 9144	.00876579154 2828	- .00001595618 5286	.00298139916 2581
Stud. Deleted Residual	-2.981	3.137	-.003	1.029
Mahal. Distance	.003	21.903	1.978	3.137
Cook's Distance	.000	.280	.017	.045
Centered Leverage Value	.000	.243	.022	.035

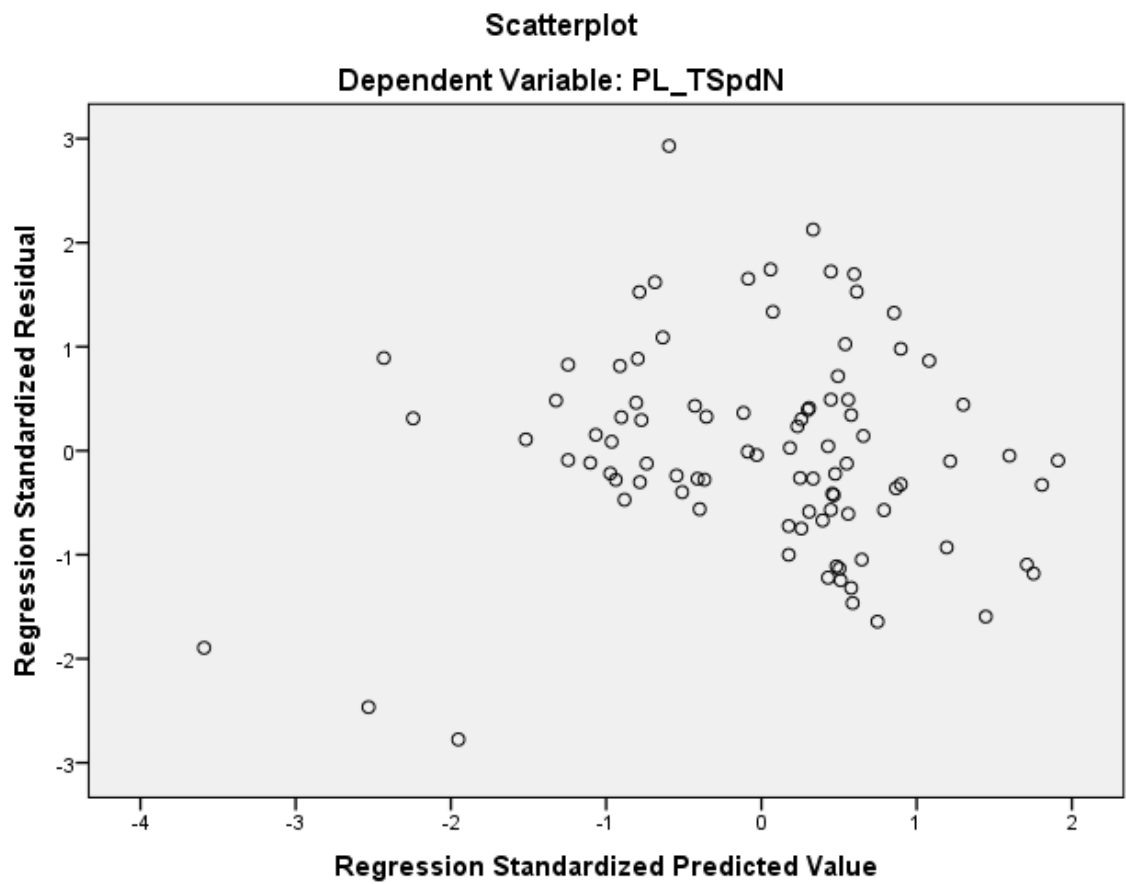
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_TSpdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_d

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:06:25
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	DataSet1

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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
	Missing Value Handling	Definition of Missing User-defined missing values are treated as missing. Cases Used Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_d /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.14
	Elapsed Time	00:00:00.17
	Memory Required	6192 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_8	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	TSpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.547 ^a	.299	.291	.00251417686 6085
2	.735 ^b	.540	.529	.00204897464 2550

a. Predictors: (Constant), TSpaths_d

b. Predictors: (Constant), TSpaths_d, AvgGL_d

c. Dependent Variable: S_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	37.975	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	51.589	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: S_d

b. Predictors: (Constant), TSpaths_d

c. Predictors: (Constant), TSpaths_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.036	.004		8.837	.000
	TSpaths_d	-2.288	.371	-.547	-6.162	.000
2	(Constant)	.039	.003		11.597	.000
	TSpaths_d	-3.724	.369	-.890	-10.084	.000
	AvgGL_d	1.180	.174	.599	6.782	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_d	1.000	1.000
2	(Constant)		
	TSpaths_d	.671	1.489
	AvgGL_d	.671	1.489

a. Dependent Variable: S_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.328 ^b	3.805	.000	.376	.923	1.084
	Tpaths_d	1.093 ^b	2.045	.044	.213	.027	37.537
	AvgPL_d	.521 ^b	5.498	.000	.506	.659	1.517
	AvgGL_d	.599 ^b	6.782	.000	.586	.671	1.489
2	GD_d	.038 ^c	.402	.689	.043	.598	1.673
	Tpaths_d	.343 ^c	.747	.457	.080	.025	40.190
	AvgPL_d	.053 ^c	.322	.748	.034	.197	5.065

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.923	
	Tpaths_d	.027	
	AvgPL_d	.659	
	AvgGL_d	.671	
2	GD_d	.435	

Tpaths_d	.025
AvgPL_d	.197

a. Dependent Variable: S_d

b. Predictors in the Model: (Constant), TSpats_d

c. Predictors in the Model: (Constant), TSpats_d, AvgGL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	TSpats_d	AvgGL_d
1	1	1.998	1.000	.00	.00	
	2	.002	30.999	1.00	1.00	
2	1	2.988	1.000	.00	.00	.00
	2	.010	17.237	.12	.02	.79
	3	.002	41.772	.88	.98	.21

a. Dependent Variable: S_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
--	---------	---------	------	----------------

Predicted Value	.00247310148 5521	.01594582945 1084	.01098901098 9011	.00219385943 9067
Std. Predicted Value	-3.882	2.259	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00246642041 0201	.01759984716 7730	.01100514018 2898	.00223454844 2513
Residual	- .00382735650 0551	.00640496192 5000	.00000000000 0000	.00202608035 2557
Std. Residual	-1.868	3.126	.000	.989
Stud. Residual	-1.917	3.245	-.003	1.016
Deleted Residual	- .00492687430 2328	.00690170796 5881	- .00001612919 3887	.00214631197 5485
Stud. Deleted Residual	-1.947	3.439	.004	1.041
Mahal. Distance	.037	31.824	1.978	4.458
Cook's Distance	.000	.703	.022	.085
Centered Leverage Value	.000	.354	.022	.050

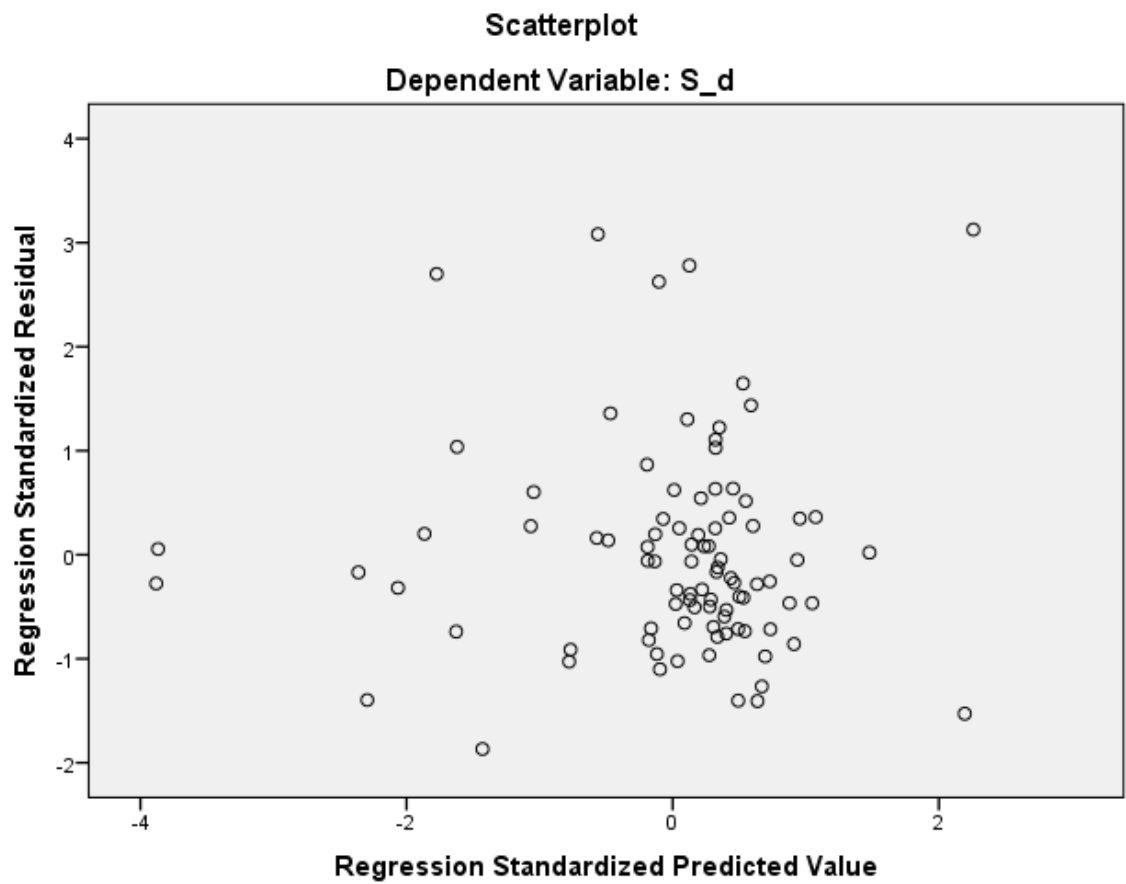
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91

Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: S_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_d

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT R_d
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.19
	Memory Required	6240 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	TSpats_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_d

Model Summary^d

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

1	.334 ^a	.112	.102	.00017051677 0712
2	.440 ^b	.194	.175	.00016338370 5380
3	.480 ^c	.231	.204	.00016049991 2630

a. Predictors: (Constant), GD_d

b. Predictors: (Constant), GD_d, TSpaths_d

c. Predictors: (Constant), GD_d, TSpaths_d, AvgGL_d

d. Dependent Variable: R_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.187	.001 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	10.563	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	8.694	.000 ^d
	Residual	.000	87	.000		

Total	.000	90			
-------	------	----	--	--	--

a. Dependent Variable: R_d

b. Predictors: (Constant), GD_d

c. Predictors: (Constant), GD_d, TSpats_d

d. Predictors: (Constant), GD_d, TSpats_d, AvgGL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		184.467	.000
	GD_d	.017	.005	.334	3.345	.001
2	(Constant)	.012	.000		43.446	.000
	GD_d	.021	.005	.417	4.184	.000
	TSpats_d	-.075	.025	-.298	-2.990	.004
3	(Constant)	.012	.000		44.221	.000
	GD_d	.014	.006	.269	2.213	.030
	TSpats_d	-.107	.029	-.424	-3.667	.000
	AvgGL_d	.035	.017	.292	2.047	.044

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000
2	(Constant)		
	GD_d	.923	1.084
	TSpaths_d	.923	1.084
3	(Constant)		
	GD_d	.598	1.673
	TSpaths_d	.661	1.514
	AvgGL_d	.435	2.299

a. Dependent Variable: R_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.299 ^b	-2.919	.004	-.297	.876	1.141
	TSpaths_d	-.298 ^b	-2.990	.004	-.304	.923	1.084
	AvgPL_d	-.072 ^b	-.516	.607	-.055	.518	1.930
	AvgGL_d	.013 ^b	.102	.919	.011	.608	1.646

2	Tpaths_d	.134 ^c	.198	.844	.021	.020	49.687
	AvgPL_d	.225 ^c	1.403	.164	.149	.352	2.839
	AvgGL_d	.292 ^c	2.047	.044	.214	.435	2.299
3	Tpaths_d	.206 ^d	.308	.759	.033	.020	49.823
	AvgPL_d	-.028 ^d	-.120	.905	-.013	.162	6.156

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.876
	TSpaths_d	.923
	AvgPL_d	.518
	AvgGL_d	.608
2	Tpaths_d	.020
	AvgPL_d	.352
	AvgGL_d	.435
3	Tpaths_d	.020
	AvgPL_d	.162

a. Dependent Variable: R_d

b. Predictors in the Model: (Constant), GD_d

c. Predictors in the Model: (Constant), GD_d, TSpaths_d

d. Predictors in the Model: (Constant), GD_d, TSpaths_d, AvgGL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_d	TSpaths_d
1	1	1.952	1.000	.02	.02	
	2	.048	6.396	.98	.98	
2	1	2.937	1.000	.00	.01	.00
	2	.061	6.966	.01	.96	.01
	3	.002	38.243	.99	.04	.99
3	1	3.930	1.000	.00	.00	.00
	2	.061	8.021	.01	.65	.01
	3	.007	23.544	.14	.33	.01
	4	.002	48.308	.85	.02	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgGL_d
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.00
	3	.79
	4	.21

a. Dependent Variable: R_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01066907588 3925	.01128555648 0289	.01098901098 9011	.00008640364 8063
Std. Predicted Value	-3.703	3.432	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01075817272 0671	.01140187215 0600	.01099192309 0817	.00008888143 3700
Residual	- .00049699377 2686	.00038716869 3123	.00000000000 0000	.00015780224 2979
Std. Residual	-3.097	2.412	.000	.983
Stud. Residual	-3.187	2.462	-.008	1.017
Deleted Residual	- .00052630924 6197	.00040344300 2142	- .00000291210 1806	.00016930175 2137

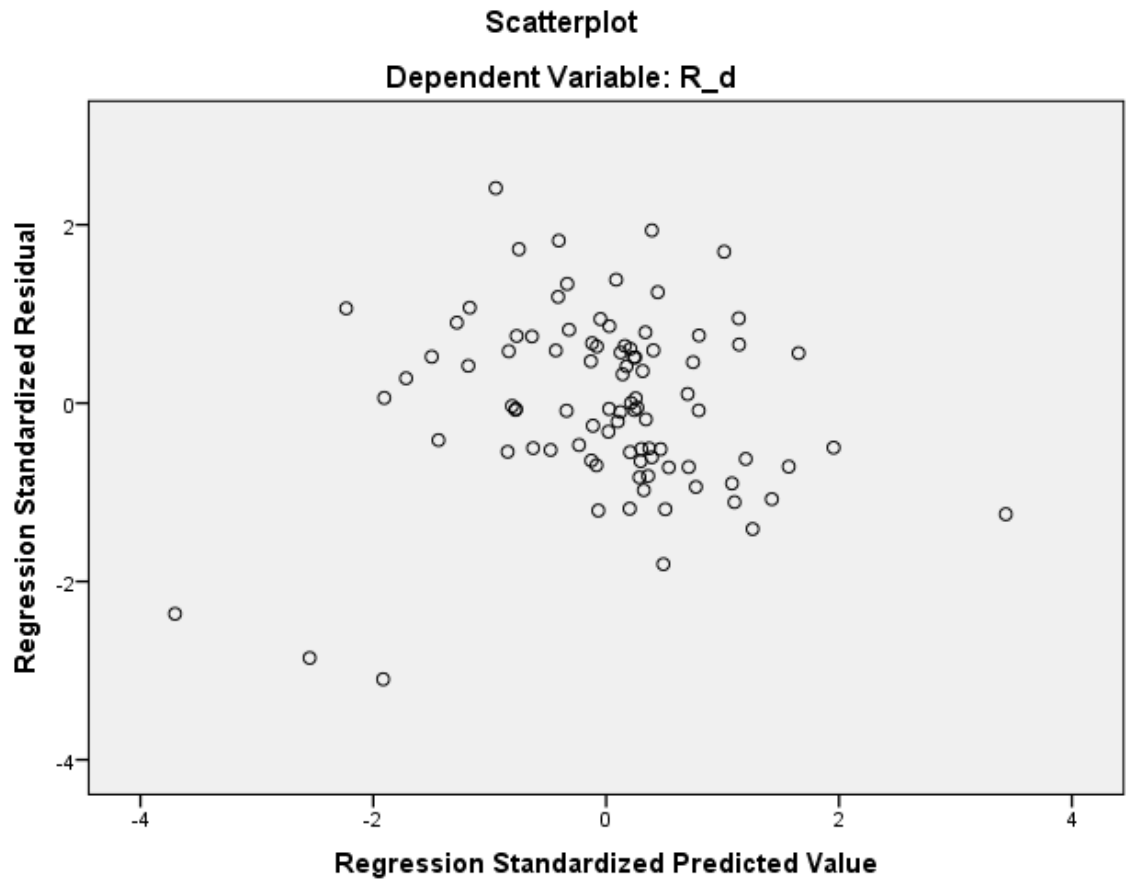
Stud. Deleted Residual	-3.371	2.538	-.012	1.036
Mahal. Distance	.075	32.112	2.967	4.676
Cook's Distance	.000	.405	.020	.062
Centered Leverage Value	.001	.357	.033	.052

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: R_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT SMSP_d

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:07:17	
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

		Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax			REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT SMSP_d /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.02
	Elapsed Time		00:00:00.02
	Memory Required		6272 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_10		Cook's Distance

Warnings

No variables were entered into the equation.

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/FILE='C:\Users\Nitin\Desktop\Appendix\Normalized_Data\Com_d.xlsx'

/SHEET=name 'Sheet1'

/CELLRANGE=full

/READNAMES=on

/ASSUMEDSTRWIDTH=32767.

EXECUTE.

DATASET NAME DataSet1 WINDOW=FRONT.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT GD_d

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:02:42
Comments		
Input	Active Dataset	DataSet1
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	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT GD_d
		/METHOD=STEPWISE PL_TpdN
		PL_TSpdN S_d R_d SMSP_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.31
	Elapsed Time	00:00:00.30
	Memory Required	5920 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	COO_1	
		Cook's Distance

[DataSet1]

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: GD_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.334 ^a	.112	.102	.00335700105 4610

a. Predictors: (Constant), R_d

b. Dependent Variable: GD_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	11.187	.001 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: GD_d

b. Predictors: (Constant), R_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.061	.022		-2.836	.006
	R_d	6.579	1.967	.334	3.345	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_d	1.000	1.000

a. Dependent Variable: GD_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.190 ^b	1.466	.146	.154	.585	1.710
	PL_TSpdN	.150 ^b	1.169	.245	.124	.605	1.653
	S_d	-.261 ^b	-1.689	.095	-.177	.408	2.450
	SMSP_d	.113 ^b	1.117	.267	.118	.975	1.026

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.585	
	PL_TSpdN	.605	
	S_d	.408	
	SMSP_d	.975	

a. Dependent Variable: GD_d

b. Predictors in the Model: (Constant), R_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_d
1	1	2.000	1.000	.00	.00
	2	.000	122.847	1.00	1.00

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00638991547 7484	.01335760112 8519	.01098901098 9011	.00118356633 3289
Std. Predicted Value	-3.886	2.001	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00657821260 3927	.01337905973 1960	.01099614859 1293	.00116530244 9359
Residual	- .00747226411 4767	.01052708737 5522	.00000000000 0000	.00333829895 3356
Std. Residual	-2.226	3.136	.000	.994
Stud. Residual	-2.275	3.158	-.001	1.003
Deleted Residual	- .00780779868 3643	.01067318394 7802	- .00000713760 2282	.00339959342 5417

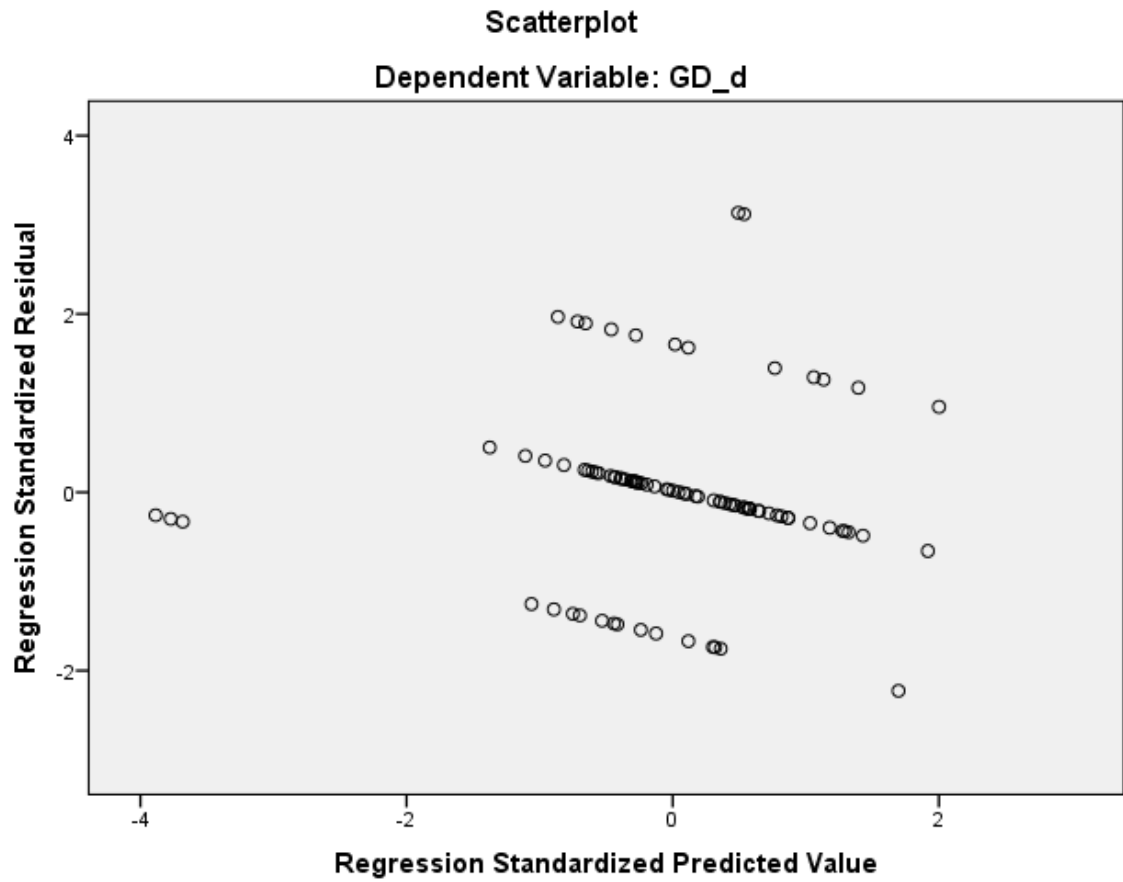
Stud. Deleted Residual	-2.331	3.332	.003	1.024
Mahal. Distance	.000	15.099	.989	2.583
Cook's Distance	.000	.116	.009	.017
Centered Leverage Value	.000	.168	.011	.029

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: GD_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Tpaths_d

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:03:13
Comments		
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	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Tpaths_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.21
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TpdN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: Tpaths_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.510 ^a	.261	.252	.00067301546 2164
2	.641 ^b	.411	.398	.00060393493 7417
3	.675 ^c	.456	.437	.00058387848 1079

a. Predictors: (Constant), S_d

b. Predictors: (Constant), S_d, R_d

c. Predictors: (Constant), S_d, R_d, PL_TpdN

d. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	31.358	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	30.734	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	24.304	.000 ^d

Residual	.000	87	.000		
Total	.000	90			

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), S_d

c. Predictors: (Constant), S_d, R_d

d. Predictors: (Constant), S_d, R_d, PL_TpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.012	.000		46.043	.000
	S_d	-.133	.024	-.510	-5.600	.000
2	(Constant)	-.015	.006		-2.599	.011
	S_d	-.255	.033	-.978	-7.638	.000
	R_d	2.629	.554	.608	4.746	.000
3	(Constant)	-.024	.007		-3.673	.000
	S_d	-.263	.032	-1.010	-8.121	.000
	R_d	3.510	.629	.811	5.582	.000
	PL_TpdN	-.068	.026	-.278	-2.674	.009

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_d	1.000	1.000
2	(Constant)		
	S_d	.408	2.450
	R_d	.408	2.450
3	(Constant)		
	S_d	.404	2.473
	R_d	.296	3.378
	PL_TpdN	.579	1.726

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.026 ^b	.254	.800	.027	.799	1.252
	PL_TSpdN	.000 ^b	.002	.999	.000	.776	1.288
	R_d	.608 ^b	4.746	.000	.451	.408	2.450

	SMSP_d	.099 ^b	1.079	.284	.114	.984	1.017
2	PL_TpdN	-.278 ^c	-2.674	.009	-.276	.579	1.726
	PL_TSpdN	-.266 ^c	-2.610	.011	-.269	.605	1.654
	SMSP_d	.062 ^c	.752	.454	.080	.975	1.026
3	PL_TSpdN	-.112 ^d	-.482	.631	-.052	.117	8.546
	SMSP_d	.042 ^d	.516	.607	.056	.965	1.036

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpdN	.799
	PL_TSpdN	.776
	R_d	.408
	SMSP_d	.984
2	PL_TpdN	.296
	PL_TSpdN	.318
	SMSP_d	.404
3	PL_TSpdN	.112
	SMSP_d	.291

a. Dependent Variable: Tpaths_d

b. Predictors in the Model: (Constant), S_d

c. Predictors in the Model: (Constant), S_d, R_d

d. Predictors in the Model: (Constant), S_d, R_d, PL_TpdN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_d	R_d
1	1	1.965	1.000	.02	.02	
	2	.035	7.533	.98	.98	
2	1	2.956	1.000	.00	.00	.00
	2	.044	8.193	.00	.42	.00
	3	5.656E-5	228.601	1.00	.57	1.00
3	1	3.910	1.000	.00	.00	.00
	2	.051	8.750	.00	.05	.00
	3	.039	10.020	.00	.46	.00
	4	4.150E-5	306.933	1.00	.48	1.00

Collinearity Diagnostics^a

Model Dimension		Variance Proportions
		PL_TpdN
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.37
	3	.36
	4	.27

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00886470451 9510	.01278804708 2722	.01098901098 9011	.00052553483 7006
Std. Predicted Value	-4.042	3.423	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00865742191 6723	.01242371369 1533	.01097717771 5446	.00052401516 4985
Residual	- .00067567382 9392	.00212994986 2137	.00000000000 0000	.00057406469 8426
Std. Residual	-1.157	3.648	.000	.983
Stud. Residual	-1.173	3.948	.010	1.018
Deleted Residual	- .00070223322 8367	.00249428302 0496	.00001183327 3565	.00061696149 5268

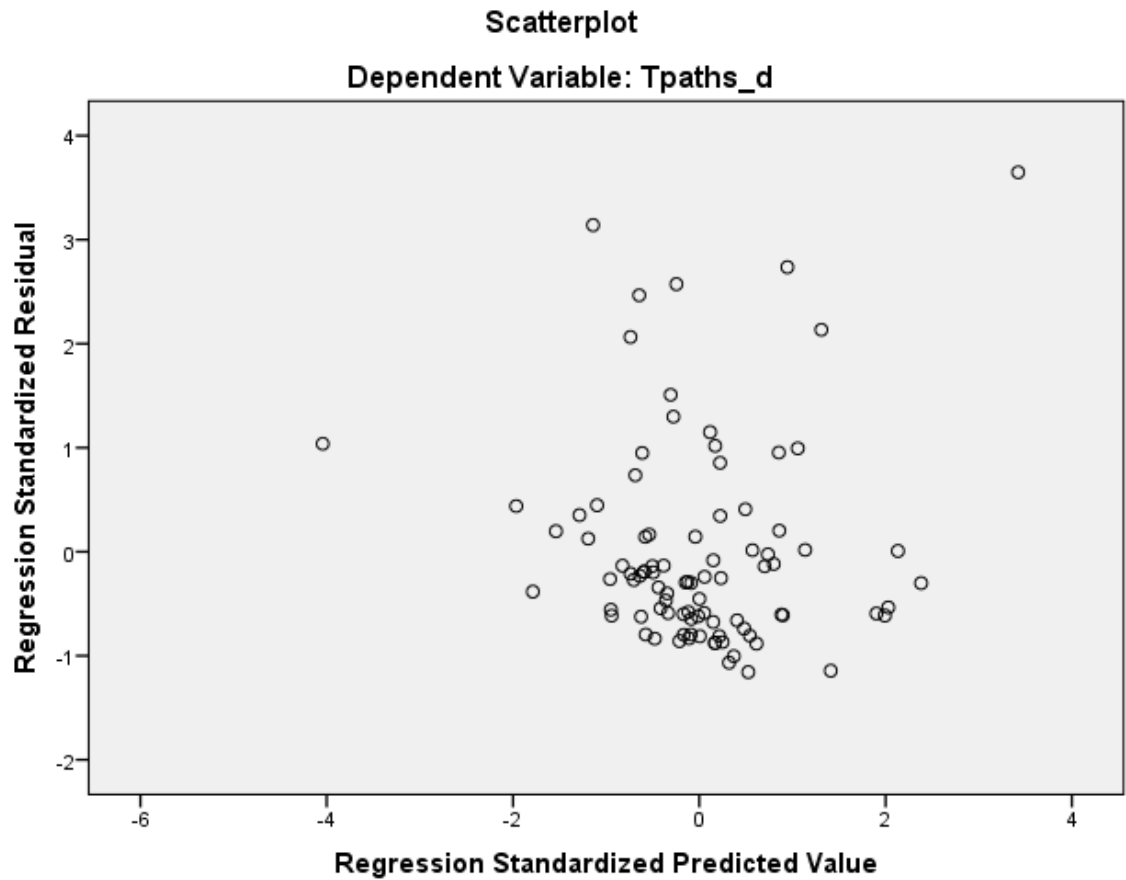
Stud. Deleted Residual	-1.175	4.332	.021	1.053
Mahal. Distance	.099	21.951	2.967	4.001
Cook's Distance	.000	.666	.020	.081
Centered Leverage Value	.001	.244	.033	.044

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: Tpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT TSpats_d

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

		Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax			REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT TSpaths_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.20
	Elapsed Time		00:00:00.23
	Memory Required		6000 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_3		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	PL_TSpdN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpdN_d

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.547 ^a	.299	.291	.00060083004 2757
2	.662 ^b	.439	.426	.00054079345 5227
3	.697 ^c	.486	.468	.00052041899 1667

a. Predictors: (Constant), S_d

b. Predictors: (Constant), S_d, R_d

c. Predictors: (Constant), S_d, R_d, PL_TSpdN

d. Dependent Variable: TSpdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	37.975	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	34.366	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	27.415	.000 ^d

Residual	.000	87	.000		
Total	.000	90			

a. Dependent Variable: TSpaths_d

b. Predictors: (Constant), S_d

c. Predictors: (Constant), S_d, R_d

d. Predictors: (Constant), S_d, R_d, PL_TSpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.012	.000		51.468	.000
	S_d	-.131	.021	-.547	-6.162	.000
2	(Constant)	-.012	.005		-2.283	.025
	S_d	-.238	.030	-.997	-7.971	.000
	R_d	2.319	.496	.585	4.675	.000
3	(Constant)	-.019	.006		-3.399	.001
	S_d	-.240	.029	-1.004	-8.341	.000
	R_d	3.039	.541	.766	5.620	.000
	PL_TSpdN	-.062	.022	-.280	-2.833	.006

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_d	1.000	1.000
2	(Constant)		
	S_d	.408	2.450
	R_d	.408	2.450
3	(Constant)		
	S_d	.408	2.451
	R_d	.318	3.146
	PL_TSpdN	.605	1.654

a. Dependent Variable: TSpdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.014 ^b	.139	.890	.015	.799	1.252
	PL_TSpdN	-.019 ^b	-.185	.853	-.020	.776	1.288
	R_d	.585 ^b	4.675	.000	.446	.408	2.450

	SMSP_d	.065 ^b	.729	.468	.077	.984	1.017
2	PL_TpdN	-.283 ^c	-2.796	.006	-.287	.579	1.726
	PL_TSpdN	-.280 ^c	-2.833	.006	-.291	.605	1.654
	SMSP_d	.030 ^c	.368	.714	.039	.975	1.026
3	PL_TpdN	-.133 ^d	-.578	.565	-.062	.112	8.916
	SMSP_d	.023 ^d	.291	.771	.031	.974	1.027

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpdN	.799
	PL_TSpdN	.776
	R_d	.408
	SMSP_d	.984
2	PL_TpdN	.296
	PL_TSpdN	.318
	SMSP_d	.404
3	PL_TpdN	.112
	SMSP_d	.315

a. Dependent Variable: TSpdN_d

b. Predictors in the Model: (Constant), S_d

c. Predictors in the Model: (Constant), S_d, R_d

d. Predictors in the Model: (Constant), S_d, R_d, PL_TSpdN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_d	R_d
1	1	1.965	1.000	.02	.02	
	2	.035	7.533	.98	.98	
2	1	2.956	1.000	.00	.00	.00
	2	.044	8.193	.00	.42	.00
	3	5.656E-5	228.601	1.00	.57	1.00
3	1	3.909	1.000	.00	.00	.00
	2	.054	8.543	.00	.05	.00
	3	.038	10.183	.00	.49	.00
	4	4.447E-5	296.470	1.00	.46	1.00

Collinearity Diagnostics^a

Model Dimension		Variance Proportions
		PL_TSpdN
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.40
	3	.38
	4	.21

a. Dependent Variable: TSpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00900179706 5139	.01259951386 6007	.01098901098 9011	.00049749319 9498
Std. Predicted Value	-3.994	3.237	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00882977247 2382	.01230948138 9821	.01097794299 0108	.00049480394 1159
Residual	- .00068692601 0530	.00188719457 9467	.00000000000 0000	.00051167183 1019
Std. Residual	-1.320	3.626	.000	.983
Stud. Residual	-1.337	3.744	.010	1.018
Deleted Residual	- .00070515938 5689	.00201301556 0806	.00001106799 8903	.00054945540 6697

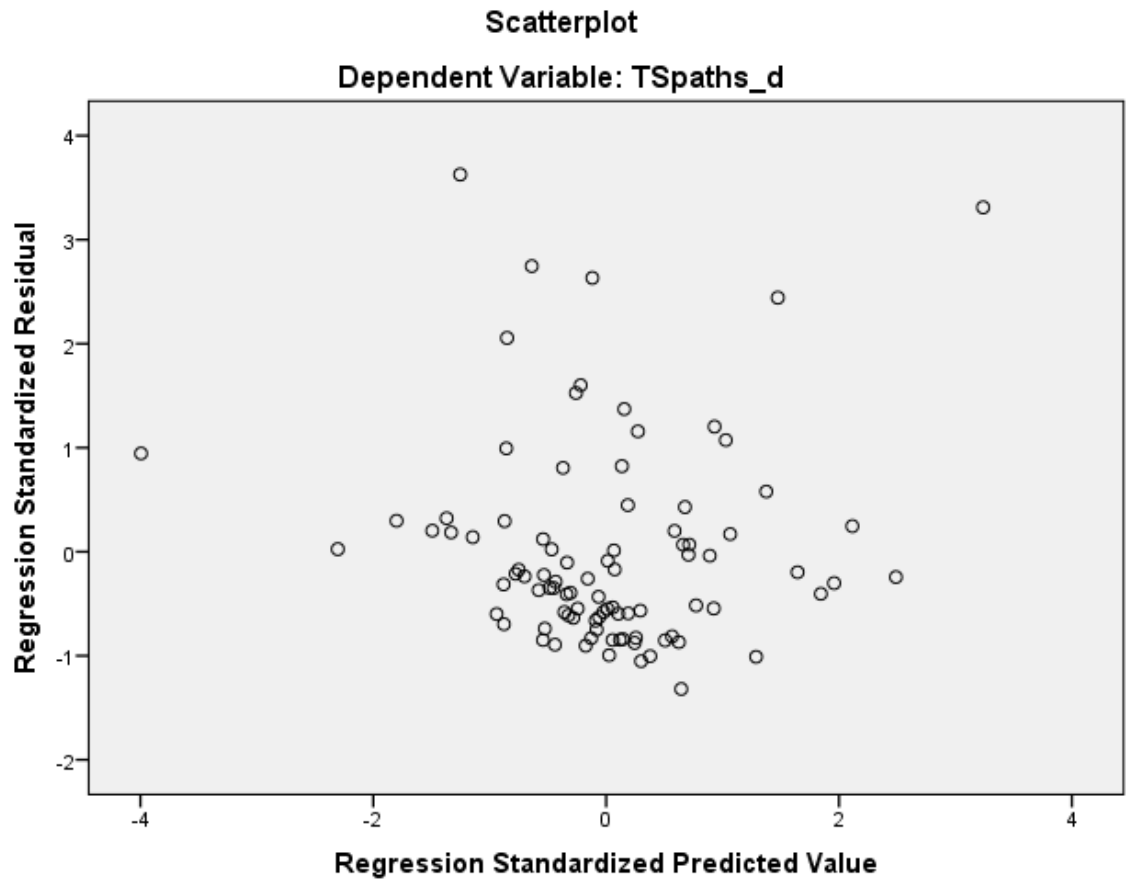
Stud. Deleted Residual	-1.344	4.064	.022	1.053
Mahal. Distance	.098	22.338	2.967	3.951
Cook's Distance	.000	.539	.020	.077
Centered Leverage Value	.001	.248	.033	.044

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: TSpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgPL_d

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:04:12	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgPL_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.02
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgGL_d

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:04:21
Comments	
Input	Active Dataset DataSet1

Missing Value Handling	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgGL_d /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.20
	Memory Required	6080 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgGL_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.217 ^a	.047	.037	.00148715423 5527

a. Predictors: (Constant), R_d

b. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.413	.039 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: AvgGL_d

b. Predictors: (Constant), R_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.009	.010		-.953	.343
	R_d	1.830	.871	.217	2.101	.039

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_d	1.000	1.000

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	-.071 ^b	-.524	.602	-.056	.585	1.710
	PL_TSpdN	-.109 ^b	-.821	.414	-.087	.605	1.653
	S_d	-.193 ^b	-1.194	.236	-.126	.408	2.450
	SMSP_d	-.014 ^b	-.133	.895	-.014	.975	1.026

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpdN	.585	
	PL_TSpdN	.605	
	S_d	.408	

SMSP_d	.975
--------	------

a. Dependent Variable: AvgGL_d

b. Predictors in the Model: (Constant), R_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_d
1	1	2.000	1.000	.00	.00
	2	.000	122.847	1.00	1.00

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00970943085 8493	.01164801046 2523	.01098901098 9011	.00032929691 6525
Std. Predicted Value	-3.886	2.001	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00962476432 3235	.01166709326 2076	.01098587094 5874	.00033827057 2972

Residual	- .00144932174 5895	.00804023630 9171	.00000000000 0000	.00147886918 9249
Std. Residual	-.975	5.406	.000	.994
Stud. Residual	-.996	5.445	.001	1.004
Deleted Residual	- .00151440210 1748	.00815599225 4615	.00000314004 3137	.00150722372 3048
Stud. Deleted Residual	-.996	6.631	.021	1.093
Mahal. Distance	.000	15.099	.989	2.583
Cook's Distance	.000	.213	.010	.031
Centered Leverage Value	.000	.168	.011	.029

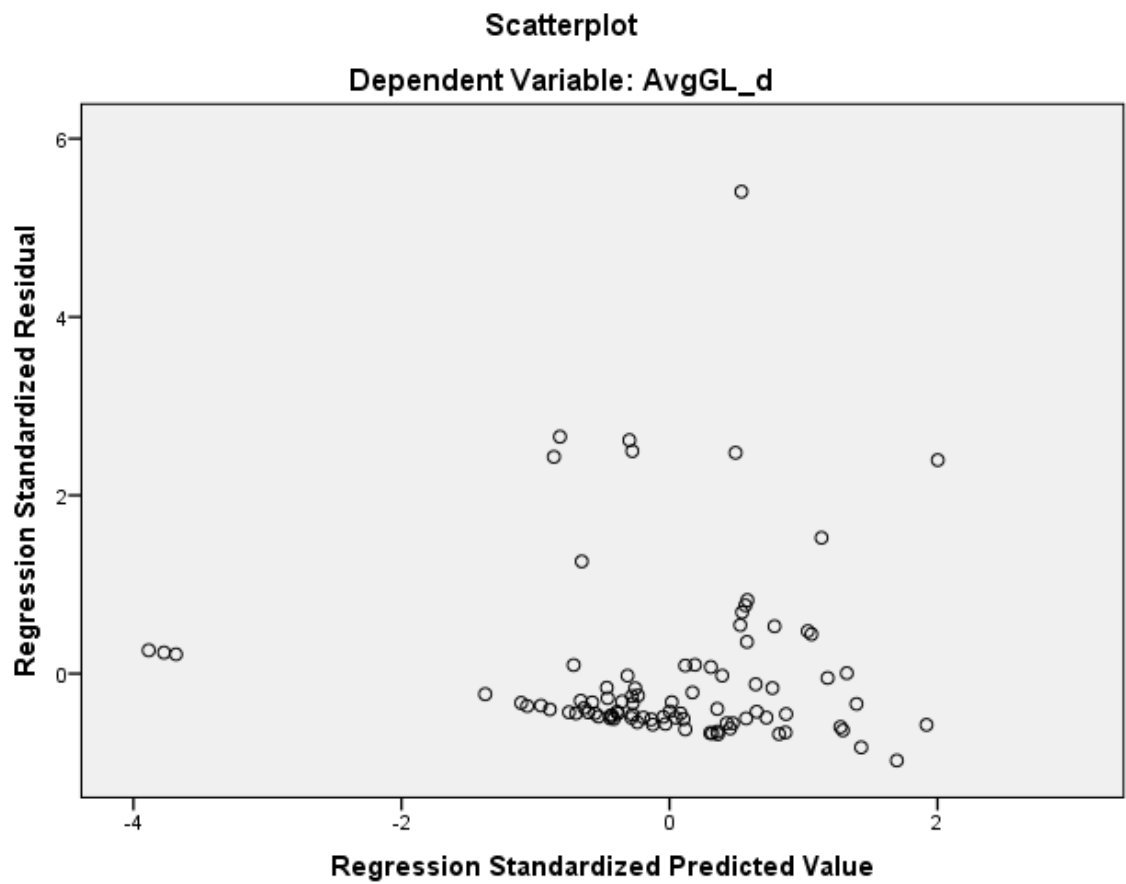
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91

Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgGL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECd

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:13:30
Comments	
Input	Active Dataset DataSet2

	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECd /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.22
	Elapsed Time		00:00:00.18
	Memory Required	5920 bytes	

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	S_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECd

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.269 ^a	.072	.062	.00176196853 4849
2	.417 ^b	.174	.155	.00167202116 0327

a. Predictors: (Constant), R_d

b. Predictors: (Constant), R_d, S_d

c. Dependent Variable: ECd

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	6.928	.010 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	9.263	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: ECd

b. Predictors: (Constant), R_d

c. Predictors: (Constant), R_d, S_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.041	.011		3.600	.001
	R_d	-2.717	1.032	-.269	-2.632	.010
2	(Constant)	.080	.016		4.985	.000
	R_d	-6.600	1.533	-.653	-4.304	.000
	S_d	.304	.092	.499	3.291	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_d	1.000	1.000
2	(Constant)		
	R_d	.408	2.450
	S_d	.408	2.450

a. Dependent Variable: ECd

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.004 ^b	.028	.978	.003	.585	1.710
	PL_TSpdN	.048 ^b	.362	.718	.039	.605	1.653
	S_d	.499 ^b	3.291	.001	.331	.408	2.450
	SMSP_d	-.109 ^b	-1.052	.296	-.111	.975	1.026
2	PL_TpdN	.044 ^c	.347	.730	.037	.579	1.726
	PL_TSpdN	.057 ^c	.452	.652	.048	.605	1.654
	SMSP_d	-.112 ^c	-1.141	.257	-.121	.975	1.026

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpdN	.585
	PL_TSpdN	.605
	S_d	.408
	SMSP_d	.975
2	PL_TpdN	.296

PL_TSpdN	.318
SMSP_d	.404

a. Dependent Variable: ECd

b. Predictors in the Model: (Constant), R_d

c. Predictors in the Model: (Constant), R_d, S_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_d	S_d
1	1	2.000	1.000	.00	.00	
	2	.000	122.847	1.00	1.00	
2	1	2.956	1.000	.00	.00	.00
	2	.044	8.193	.00	.00	.42
	3	5.656E-5	228.601	1.00	1.00	.57

a. Dependent Variable: ECd

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	.00926666986 1972	.01324390713 1255	.01098901098 9011	.00075861484 4863
Std. Predicted Value	-2.270	2.972	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00940052233 6364	.01355536375 1948	.01100625186 3702	.00078542551 3531
Residual	- .00500913709 4021	.00285335164 5172	.00000000000 0000	.00165333877 3282
Std. Residual	-2.996	1.707	.000	.989
Stud. Residual	-3.049	1.720	-.005	1.008
Deleted Residual	- .00518968747 9287	.00289930845 6108	- .00001724087 4691	.00171975380 4179
Stud. Deleted Residual	-3.206	1.740	-.013	1.028
Mahal. Distance	.023	21.011	1.978	3.595
Cook's Distance	.000	.205	.014	.032
Centered Leverage Value	.000	.233	.022	.040

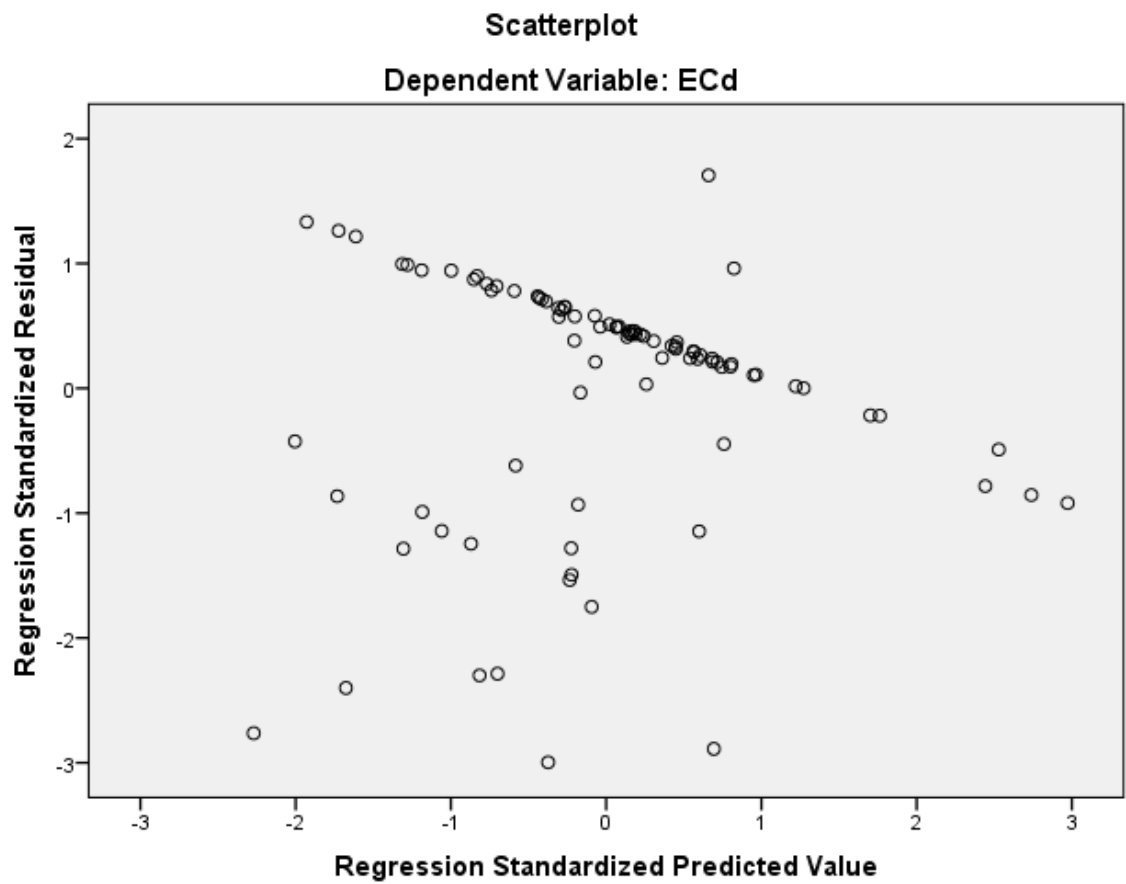
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91

Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECd

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:13:51
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCdN /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.19
	Elapsed Time		00:00:00.19
	Memory Required	5952 bytes	
	Additional Memory Required for Residual Plots	0 bytes	
Variables Created or Modified	COO_2	Cook's Distance	

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	SMSP_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCdN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.323 ^a	.104	.094	.01467130665 2947
2	.404 ^b	.163	.144	.01426204287 6885

a. Predictors: (Constant), R_d

b. Predictors: (Constant), R_d, SMSP_d

c. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.002	1	.002	10.353	.002 ^b
	Residual	.019	89	.000		
	Total	.021	90			
2	Regression	.003	2	.002	8.568	.000 ^c
	Residual	.018	88	.000		
	Total	.021	90			

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), R_d

c. Predictors: (Constant), R_d, SMSP_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.293	.094		-3.101	.003

	R_d	27.658	8.596	.323	3.218	.002
2	(Constant)	-.257	.093		-2.761	.007
	R_d	24.317	8.464	.284	2.873	.005
	SMSP_d	.044	.018	.246	2.486	.015

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_d	1.000	1.000
2	(Constant)		
	R_d	.975	1.026
	SMSP_d	.975	1.026

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpdN	.166 ^b	1.270	.208	.134	.585	1.710
	PL_TSpdN	.164 ^b	1.276	.205	.135	.605	1.653
	S_d	-.264 ^b	-1.701	.093	-.178	.408	2.450

	SMSP_d	.246 ^b	2.486	.015	.256	.975	1.026
2	PL_TpdN	.199 ^c	1.569	.120	.166	.579	1.727
	PL_TSpdN	.174 ^c	1.397	.166	.148	.604	1.655
	S_d	-.268 ^c	-1.777	.079	-.187	.408	2.450

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpdN	.585
	PL_TSpdN	.605
	S_d	.408
	SMSP_d	.975
2	PL_TpdN	.565
	PL_TSpdN	.592
	S_d	.404

a. Dependent Variable: PL_EVCdN

b. Predictors in the Model: (Constant), R_d

c. Predictors in the Model: (Constant), R_d, SMSP_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	R_d	SMSP_d
1	1	2.000	1.000	.00	.00	
	2	.000	122.847	1.00	1.00	
2	1	2.032	1.000	.00	.00	.01
	2	.968	1.449	.00	.00	.96
	3	.000	125.395	1.00	1.00	.02

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00649278145 2835	.05174364149 5705	.01098901098 9011	.00622336562 8294
Std. Predicted Value	-2.809	6.549	.000	1.000
Standard Error of Predicted Value	.002	.014	.002	.002
Adjusted Predicted Value	- .00793247483 6707	.08377491682 7679	.01128715669 0201	.00895424686 7417
Residual	- .01676446199 4171	.05127761140 4657	.00000000000 0000	.01410268544 0860
Std. Residual	-1.175	3.595	.000	.989
Stud. Residual	-1.197	3.618	-.003	1.000

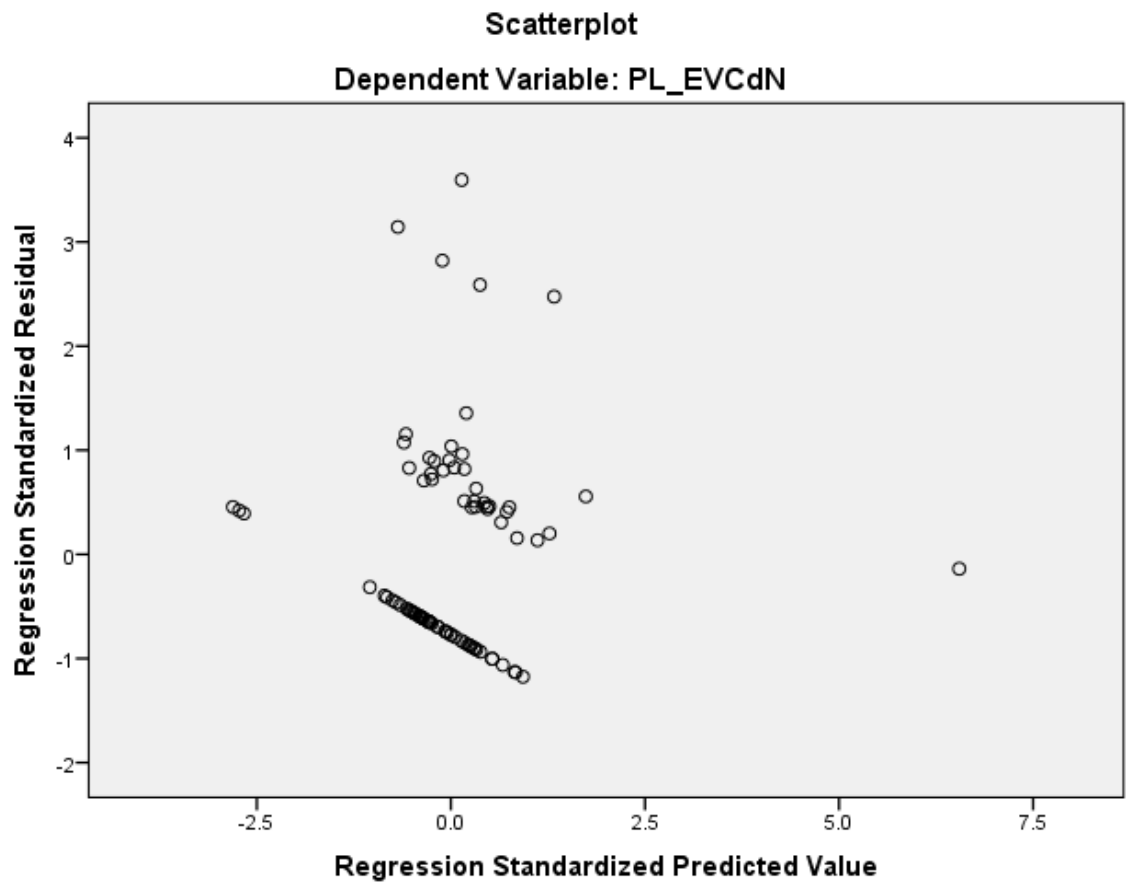
Deleted Residual	- .03400755673 6469	.05192146450 2811	- .00029814570 1190	.01482571071 7916
Stud. Deleted Residual	-1.200	3.899	.006	1.027
Mahal. Distance	.016	83.781	1.978	9.068
Cook's Distance	.000	1.785	.026	.187
Centered Leverage Value	.000	.931	.022	.101

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TpdN

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	28-MAY-2015 14:14:09	
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCd_TpdN /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.04
	Memory Required	6000 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Warnings

No variables were entered into the equation.
--

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCd_TSpdN

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:14:18
Comments	

Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCd_TSpdN /METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.05
	Memory Required	6032 bytes

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCdN

/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 14:14:43	
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	90
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT PL_EVCdN
		/METHOD=STEPWISE PL_TpdN PL_TSpdN S_d R_d SMSP_d
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.17
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	PL_TpdN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: PL_EVCdN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.311 ^a	.097	.086	.01427927169 0437

a. Predictors: (Constant), PL_TpdN

b. Dependent Variable: PL_EVCdN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.002	1	.002	9.426	.003 ^b
	Residual	.018	88	.000		

Total	.020	89			
-------	------	----	--	--	--

a. Dependent Variable: PL_EVCdN

b. Predictors: (Constant), PL_TpdN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.005	.005		-1.011	.315
	PL_TpdN	1.462	.476	.311	3.070	.003

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpdN	1.000	1.000

a. Dependent Variable: PL_EVCdN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TSpdN	.009 ^b	.032	.975	.003	.118	8.476
	S_d	-.032 ^b	-.280	.780	-.030	.798	1.253
	R_d	.165 ^b	1.243	.217	.132	.579	1.726
	SMSP_d	.127 ^b	1.255	.213	.133	.999	1.001

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TSpdN	.118	
	S_d	.798	
	R_d	.579	
	SMSP_d	.999	

a. Dependent Variable: PL_EVCdN

b. Predictors in the Model: (Constant), PL_TpdN

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TpdN

1	1	1.961	1.000	.02	.02
	2	.039	7.091	.98	.98

a. Dependent Variable: PL_EVCdN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00549977878 1086	.02151377871 6326	.01055814047 9386	.00464707727 4369
Std. Predicted Value	-3.455	2.358	.000	1.000
Standard Error of Predicted Value	.002	.005	.002	.001
Adjusted Predicted Value	- .00643454352 3937	.02118621580 3027	.01053812277 5175	.00476193487 4300
Residual	- .01946961693 4657	.05243797600 2693	.00000000000 0000	.01419882444 9213
Std. Residual	-1.363	3.672	.000	.994
Stud. Residual	-1.401	3.693	.001	1.004
Deleted Residual	- .02054689265 7876	.05302769318 2230	.00002001770 4211	.01446241891 7406
Stud. Deleted Residual	-1.409	3.994	.010	1.031
Mahal. Distance	.000	11.940	.989	2.239

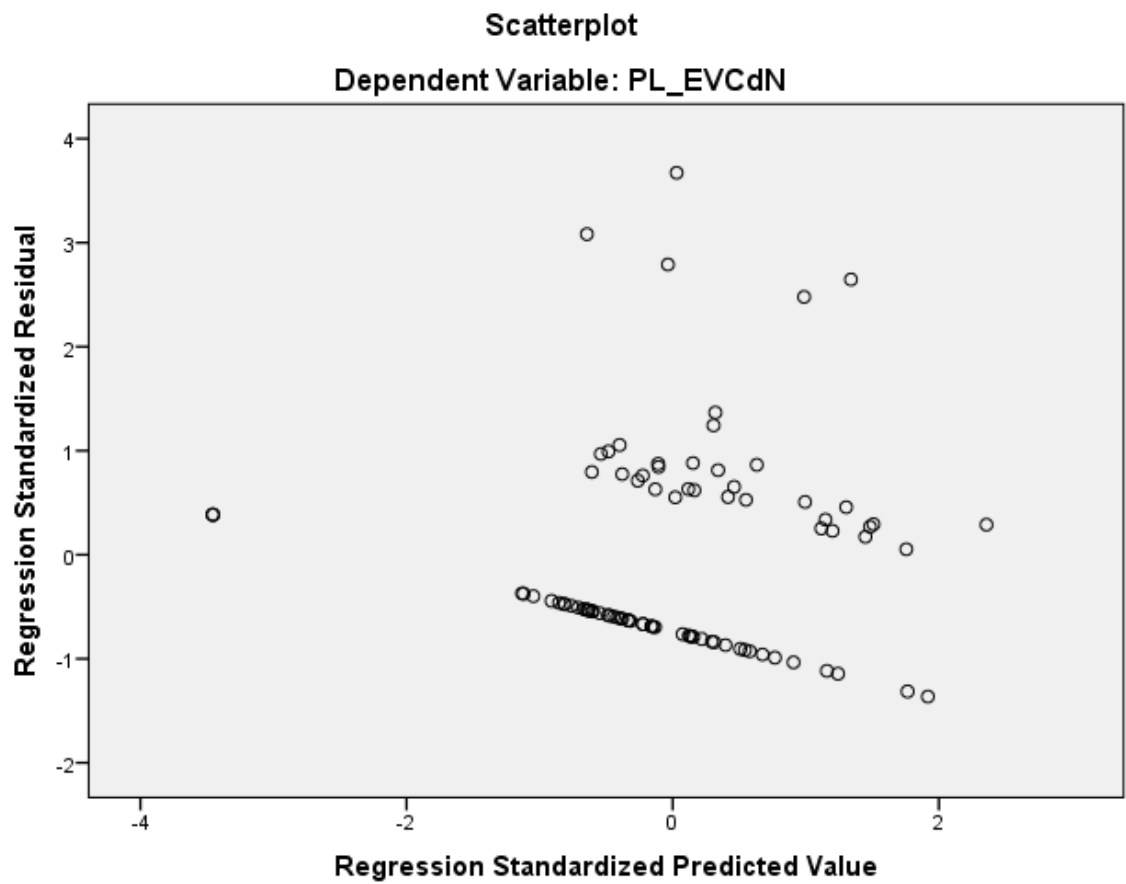
Cook's Distance	.000	.117	.009	.019
Centered Leverage Value	.000	.134	.011	.025

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: PL_EVCdN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECut

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d


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/SCATTERPLOT=(*ZRESID ,*ZPRED)
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/SAVE COOK.
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Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECout /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Edges_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECont

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.549 ^a	.301	.293	.002658426747544
2	.617 ^b	.381	.367	.002516266250748

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, Edges_d

c. Dependent Variable: ECont

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	38.360	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	27.078	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: ECont

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, Edges_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.012	.000		37.842	.000
	Reciprocity	-.082	.013	-.549	-6.194	.000
2	(Constant)	.014	.001		19.842	.000
	Reciprocity	-.086	.013	-.575	-6.824	.000
	Edges_d	-.193	.057	-.284	-3.368	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.992	1.008
	Edges_d	.992	1.008

a. Dependent Variable: Ecout

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.263 ^b	-3.091	.003	-.313	.988	1.012

	Edges_d	-.284 ^b	-3.368	.001	-.338	.992	1.008
	Den_d	.164 ^b	1.837	.070	.192	.956	1.046
	CC_d	.102 ^b	1.052	.296	.111	.827	1.209
	GD_d	-.085 ^b	-.927	.357	-.098	.931	1.074
	Tpaths_d	-.256 ^b	-3.019	.003	-.306	.999	1.001
	TSpaths_d	-.255 ^b	-3.000	.004	-.305	.999	1.001
	AvgPL_d	-.146 ^b	-1.605	.112	-.169	.938	1.066
	AvgGL_d	-.117 ^b	-1.304	.196	-.138	.974	1.026
	PL_TpoutN	-.103 ^b	-1.164	.248	-.123	.991	1.009
	PL_TSpoutN	-.090 ^b	-1.017	.312	-.108	1.000	1.000
	S_pro	.076 ^b	.846	.400	.090	.989	1.011
	R_pro	-.012 ^b	-.126	.900	-.013	.952	1.051
	SMSP_d	.101 ^b	1.038	.302	.110	.824	1.213
	2						
	Nodes	.965 ^c	1.587	.116	.168	.019	53.438
	Den_d	-.269 ^c	-1.713	.090	-.181	.280	3.573
	CC_d	.108 ^c	1.176	.243	.125	.827	1.209
	GD_d	-.083 ^c	-.959	.340	-.102	.931	1.074
	Tpaths_d	-.070 ^c	-.461	.646	-.049	.311	3.220
	TSpaths_d	-.054 ^c	-.341	.734	-.037	.282	3.552
	AvgPL_d	-.081 ^c	-.908	.366	-.097	.885	1.129
	AvgGL_d	-.080 ^c	-.937	.351	-.100	.957	1.044
	PL_TpoutN	-.119 ^c	-1.423	.158	-.151	.988	1.012

PL_TSpoutN	-.070 ^c	-.831	.408	-.089	.995	1.005
S_pro	.044 ^c	.514	.609	.055	.976	1.024
R_pro	-.061 ^c	-.702	.485	-.075	.926	1.080
SMSP_d	.108 ^c	1.166	.247	.124	.824	1.214

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.988
	Edges_d	.992
	Den_d	.956
	CC_d	.827
	GD_d	.931
	Tpaths_d	.999
	TSpaths_d	.999
	AvgPL_d	.938
	AvgGL_d	.974
	PL_TpoutN	.991
	PL_TSpoutN	1.000
	S_pro	.989
	R_pro	.952
	SMSP_d	.824

2	Nodes	.019
	Den_d	.280
	CC_d	.821
	GD_d	.924
	Tpaths_d	.308
	TSpaths_d	.279
	AvgPL_d	.885
	AvgGL_d	.957
	PL_TpoutN	.984
	PL_TSpoutN	.986
	S_pro	.976
	R_pro	.926
	SMSP_d	.817

a. Dependent Variable: ECont

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, Edges_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	Edges_d

1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.222	1.000	.03	.07	.03
	2	.703	1.777	.01	.89	.03
	3	.075	5.442	.96	.04	.95

a. Dependent Variable: ECont

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00479779439 0470	.01306384801 8646	.01098901098 9011	.00195191881 8109
Std. Predicted Value	-3.172	1.063	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00421053078 0256	.01318054832 5181	.01099262997 6785	.00196483535 8014
Residual	- .00801924709 2307	.00524164689 7048	.00000000000 0000	.00248815066 1590
Std. Residual	-3.187	2.083	.000	.989
Stud. Residual	-3.212	2.403	.000	1.024
Deleted Residual	- .00814744736 9993	.00697682984 1733	- .00000361898 7774	.00268804149 2165

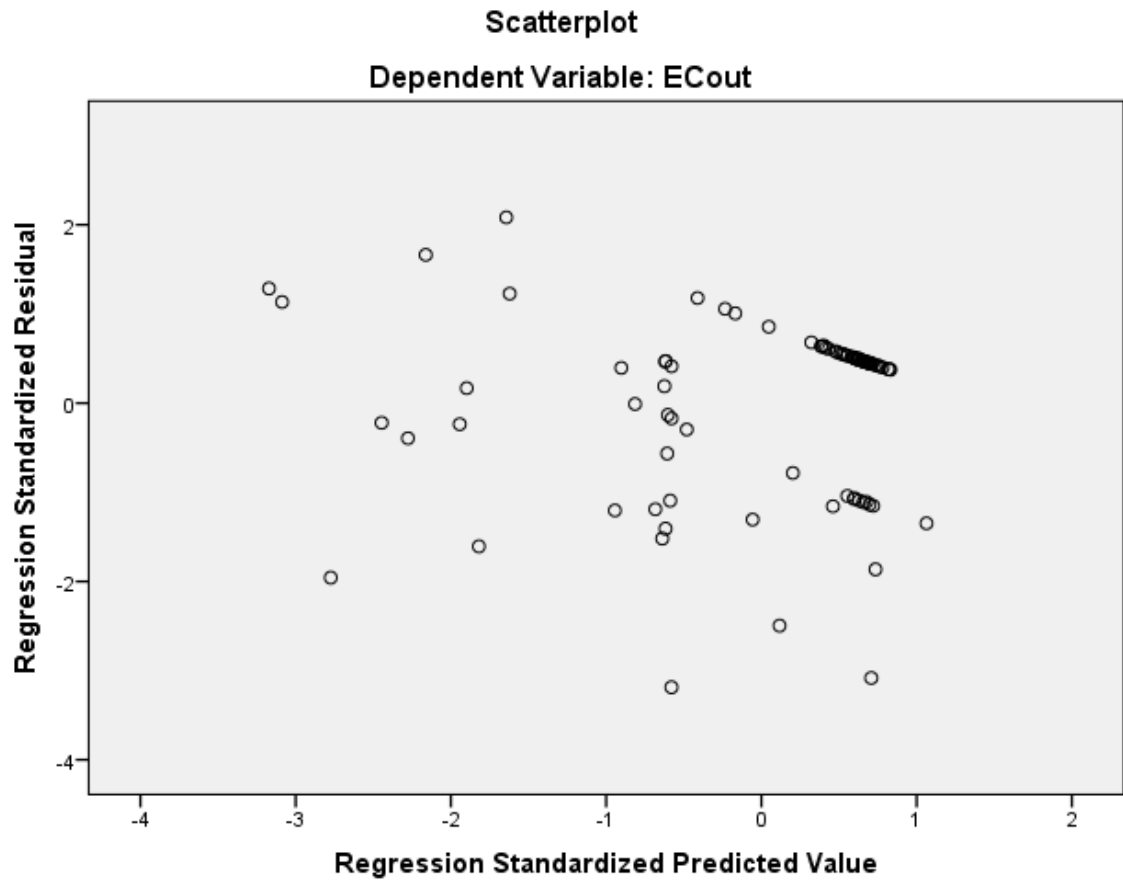
Stud. Deleted Residual	-3.400	2.472	-.007	1.044
Mahal. Distance	.268	33.422	1.978	4.549
Cook's Distance	.000	1.280	.031	.149
Centered Leverage Value	.003	.371	.022	.051

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECont

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCoutN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	17392 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	TSpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	CC_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCoutN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.623 ^a	.388	.381	.01204217636 3766
2	.691 ^b	.477	.465	.01119441136 6519
3	.710 ^c	.504	.487	.01096840443 2289

a. Predictors: (Constant), Reciprocity

b. Predictors: (Constant), Reciprocity, TSpats_d

c. Predictors: (Constant), Reciprocity, TSpats_d, CC_d

d. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.008	1	.008	56.506	.000 ^b
	Residual	.013	89	.000		
	Total	.021	90			
2	Regression	.010	2	.005	40.190	.000 ^c
	Residual	.011	88	.000		
	Total	.021	90			
3	Regression	.011	3	.004	29.463	.000 ^d

Residual	.010	87	.000		
Total	.021	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), Reciprocity

c. Predictors: (Constant), Reciprocity, TSpaths_d

d. Predictors: (Constant), Reciprocity, TSpaths_d, CC_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.001		4.255	.000
	Reciprocity	.449	.060	.623	7.517	.000
2	(Constant)	-.064	.018		-3.530	.001
	Reciprocity	.455	.056	.632	8.198	.000
	TSpaths_d	6.405	1.654	.299	3.872	.000
3	(Constant)	-.065	.018		-3.625	.000
	Reciprocity	.509	.060	.707	8.508	.000
	TSpaths_d	6.420	1.621	.299	3.961	.000
	CC_d	-.031	.015	-.179	-2.160	.034

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000
2	(Constant)		
	Reciprocity	.999	1.001
	TSpaths_d	.999	1.001
3	(Constant)		
	Reciprocity	.827	1.210
	TSpaths_d	.999	1.001
	CC_d	.827	1.209

a. Dependent Variable: PL_EVCoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Nodes	.254 ^b	3.201	.002	.323	.988	1.012	.988
	Edges_d	.281 ^b	3.591	.001	.357	.992	1.008	.992
	Den_d	-.192 ^b	-2.325	.022	-.241	.956	1.046	.956

	CC_d	-.178 ^b	-1.983	.050	-.207	.827	1.209	.827
	GD_d	.195 ^b	2.331	.022	.241	.931	1.074	.931
	Tpaths_d	.296 ^b	3.828	.000	.378	.999	1.001	.999
	TSpaths_d	.299 ^b	3.872	.000	.382	.999	1.001	.999
	AvgPL_d	.168 ^b	1.998	.049	.208	.938	1.066	.938
	AvgGL_d	.180 ^b	2.182	.032	.227	.974	1.026	.974
	PL_TpoutN	-.032 ^b	-.388	.699	-.041	.991	1.009	.991
	PL_TSpout N	.016 ^b	.191	.849	.020	1.000	1.000	1.000
	S_pro	.008 ^b	.098	.922	.010	.989	1.011	.989
	R_pro	.079 ^b	.928	.356	.098	.952	1.051	.952
	SMSP_d	-.177 ^b	-1.971	.052	-.206	.824	1.213	.824
2	Nodes	.017 ^c	.120	.905	.013	.309	3.237	.309
	Edges_d	.095 ^c	.651	.517	.070	.279	3.578	.279
	Den_d	.176 ^c	1.283	.203	.136	.314	3.187	.314
	CC_d	-.179 ^c	-2.160	.034	-.226	.827	1.209	.827
	GD_d	.114 ^c	1.369	.175	.145	.849	1.177	.849
	Tpaths_d	.027 ^c	.054	.957	.006	.023	42.917	.023
	AvgPL_d	-.032 ^c	-.315	.754	-.034	.588	1.700	.588
	AvgGL_d	.004 ^c	.039	.969	.004	.640	1.563	.640
	PL_TpoutN	-.044 ^c	-.569	.571	-.061	.990	1.010	.990
	PL_TSpout N	-.048 ^c	-.607	.545	-.065	.957	1.045	.956

	S_pro	-.060 ^c	-.752	.454	-.080	.942	1.061	.942
	R_pro	.016 ^c	.198	.844	.021	.911	1.098	.911
	SMSP_d	-.180 ^c	-2.159	.034	-.225	.824	1.213	.823
3	Nodes	.020 ^d	.148	.883	.016	.309	3.238	.309
	Edges_d	.104 ^d	.725	.471	.078	.279	3.581	.279
	Den_d	.171 ^d	1.276	.205	.136	.314	3.188	.314
	GD_d	.126 ^d	1.544	.126	.164	.846	1.182	.781
	Tpaths_d	.137 ^d	.275	.784	.030	.023	43.364	.023
	AvgPL_d	-.026 ^d	-.266	.791	-.029	.588	1.702	.588
	AvgGL_d	-.010 ^d	-.109	.913	-.012	.637	1.570	.637
	PL_TpoutN	-.046 ^d	-.607	.545	-.065	.990	1.010	.820
	PL_TSpout N	-.034 ^d	-.432	.667	-.047	.950	1.053	.821
	S_pro	-.067 ^d	-.854	.395	-.092	.941	1.063	.815
	R_pro	.012 ^d	.150	.881	.016	.910	1.099	.787
	SMSP_d	.002 ^d	.001	1.000	.000	.000	2013.176	.000

a. Dependent Variable: PL_EVCoutN

b. Predictors in the Model: (Constant), Reciprocity

c. Predictors in the Model: (Constant), Reciprocity, TSpats_d

d. Predictors in the Model: (Constant), Reciprocity, TSpats_d, CC_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Reciprocity	TSpaths_d
1	1	1.461	1.000	.27	.27	
	2	.539	1.647	.73	.73	
2	1	2.319	1.000	.00	.07	.00
	2	.679	1.848	.00	.93	.00
	3	.002	33.433	1.00	.00	1.00
3	1	2.407	1.000	.00	.06	.00
	2	1.111	1.472	.00	.09	.00
	3	.479	2.241	.00	.85	.00
	4	.002	34.064	1.00	.00	1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		CC_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.02
	2	.47

3	.51
4	.00

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00386269949 3766	.04829414561 3909	.01098901098 9011	.01086985910 8302
Std. Predicted Value	-1.366	3.432	.000	1.000
Standard Error of Predicted Value	.001	.011	.002	.001
Adjusted Predicted Value	- .00412525376 3050	.05326795205 4739	.01098732105 0179	.01096870789 1105
Residual	- .02516536414 6233	.02967634052 0382	.00000000000 0000	.01078404837 0808
Std. Residual	-2.294	2.706	.000	.983
Stud. Residual	-2.347	2.730	.000	1.013
Deleted Residual	- .02632495574 6531	.03399116173 3866	.00000168993 8832	.01148191408 2085
Stud. Deleted Residual	-2.411	2.838	.005	1.028
Mahal. Distance	.279	84.910	2.967	9.303

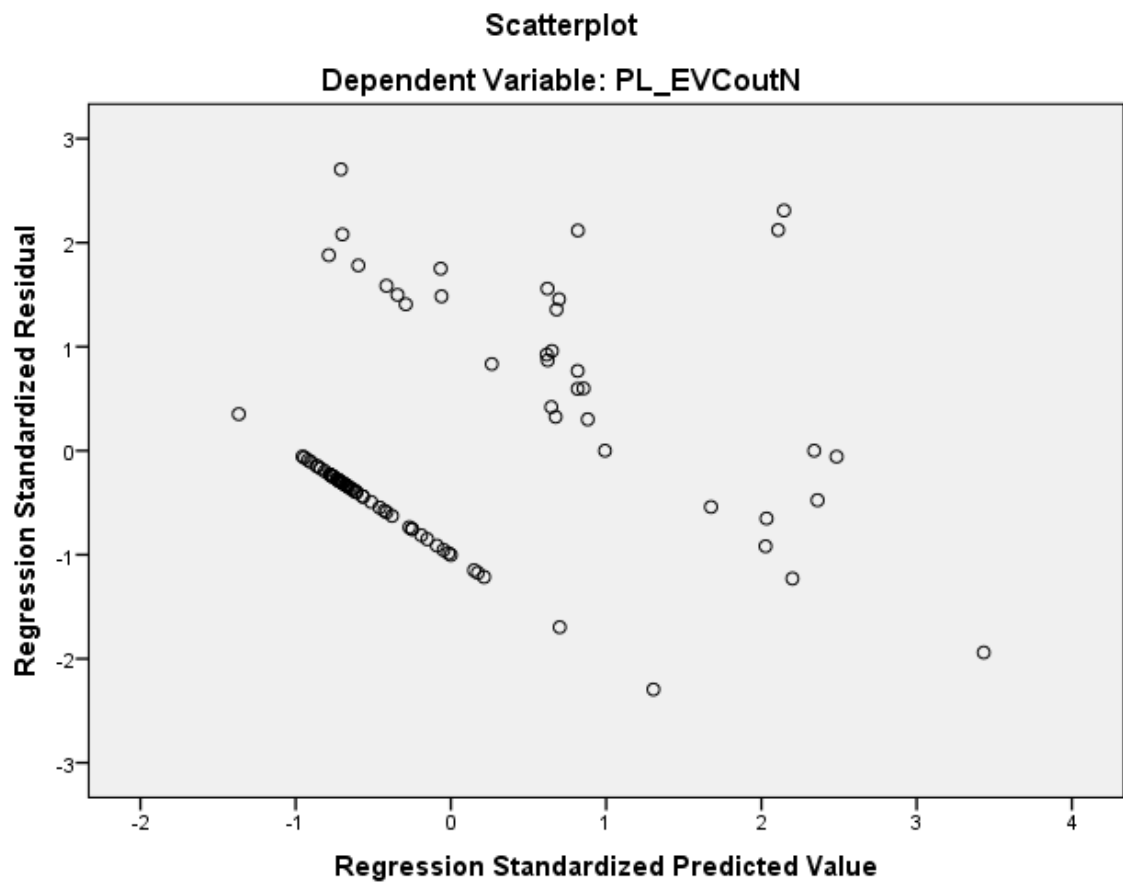
Cook's Distance	.000	.612	.017	.071
Centered Leverage Value	.003	.943	.033	.103

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout_TpoutN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:14:16
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCut_TpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	17440 bytes
	Additional Memory Required for Residual Plots	0 bytes
	Variables Created or Modified	COO_7 Cook's Distance

Variables Entered/Removed^a

a. Dependent Variable: EVCout_TpoutN

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.306 ^a	.094	.084	.02544544530 3134
2	.387 ^b	.150	.131	.02478564980 4432
3	.449 ^c	.201	.174	.02416152432 0194
4	.441 ^d	.195	.176	.02412297807 4990

a. Predictors: (Constant), Nodes

b. Predictors: (Constant), Nodes, R_pro

c. Predictors: (Constant), Nodes, R_pro, Tpaths_d

d. Predictors: (Constant), R_pro, Tpaths_d

e. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.006	1	.006	9.220	.003 ^b
	Residual	.058	89	.001		
	Total	.064	90			
2	Regression	.010	2	.005	7.759	.001 ^c
	Residual	.054	88	.001		
	Total	.064	90			
3	Regression	.013	3	.004	7.312	.000 ^d
	Residual	.051	87	.001		
	Total	.064	90			
4	Regression	.012	2	.006	10.642	.000 ^e
	Residual	.051	88	.001		
	Total	.064	90			

a. Dependent Variable: EVCout_TpoutN

b. Predictors: (Constant), Nodes

c. Predictors: (Constant), Nodes, R_pro

d. Predictors: (Constant), Nodes, R_pro, Tpaths_d

e. Predictors: (Constant), R_pro, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	-.008	.007		-1.186	.239
	Nodes	1.737	.572	.306	3.036	.003
2	(Constant)	.034	.019		1.816	.073
	Nodes	1.464	.569	.258	2.574	.012
	R_pro	-3.545	1.472	-.242	-2.409	.018
3	(Constant)	-.094	.057		-1.647	.103
	Nodes	-1.000	1.179	-.176	-.848	.399
	R_pro	-6.342	1.859	-.432	-3.412	.001
	Tpaths_d	16.859	7.121	.494	2.367	.020
4	(Constant)	-.057	.037		-1.545	.126
	R_pro	-5.344	1.436	-.364	-3.722	.000
	Tpaths_d	11.528	3.342	.338	3.449	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Nodes	1.000	1.000
2	(Constant)		
	Nodes	.960	1.041
	R_pro	.960	1.041
3	(Constant)		

4	Nodes	.212	4.713
	R_pro	.572	1.748
	Tpaths_d	.211	4.736
	(Constant)		
	R_pro	.956	1.046
	Tpaths_d	.956	1.046

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Edges_d	-1.004 ^b	-1.383	.170	-.146	.019	52.286	.019
	Reciprocity	-.059 ^b	-.575	.567	-.061	.988	1.012	.988
	Den_d	-.039 ^b	-.205	.838	-.022	.280	3.576	.280
	CC_d	-.041 ^b	-.407	.685	-.043	.999	1.001	.999
	GD_d	-.062 ^b	-.613	.541	-.065	.999	1.001	.999
	Tpaths_d	.041 ^b	.243	.809	.026	.354	2.822	.354
	TSpaths_d	.018 ^b	.102	.919	.011	.316	3.161	.316
	AvgPL_d	.041 ^b	.396	.693	.042	.960	1.042	.960
	AvgGL_d	.008 ^b	.080	.936	.009	.988	1.012	.988

	PL_TpoutN	-.053 ^b	-.521	.604	-.055	.996	1.005	.996
	PL_TSpout N	-.146 ^b	-1.456	.149	-.153	.997	1.003	.997
	S_pro	-.078 ^b	-.767	.445	-.082	.982	1.018	.982
	R_pro	-.242 ^b	-2.409	.018	-.249	.960	1.041	.960
	SMSP_d	-.042 ^b	-.418	.677	-.044	.999	1.001	.999
2	Edges_d	-.815 ^c	-1.140	.257	-.121	.019	53.015	.019
	Reciprocity	-.011 ^c	-.106	.916	-.011	.947	1.056	.921
	Den_d	-.114 ^c	-.606	.546	-.065	.272	3.672	.263
	CC_d	-.026 ^c	-.263	.794	-.028	.994	1.006	.956
	GD_d	.074 ^c	.648	.519	.069	.753	1.329	.723
	Tpaths_d	.494 ^c	2.367	.020	.246	.211	4.736	.211
	TSpaths_d	.516 ^c	2.282	.025	.238	.180	5.541	.180
	AvgPL_d	.258 ^c	2.171	.033	.227	.658	1.521	.658
	AvgGL_d	.287 ^c	2.243	.027	.234	.565	1.770	.549
	PL_TpoutN	.042 ^c	.389	.698	.042	.857	1.167	.826
	PL_TSpout N	-.031 ^c	-.270	.788	-.029	.727	1.376	.700
	S_pro	.118 ^c	.925	.358	.099	.596	1.678	.583
	SMSP_d	-.027 ^c	-.270	.787	-.029	.994	1.006	.956
3	Edges_d	-1.574 ^d	-2.161	.033	-.227	.017	60.217	.017
	Reciprocity	-.033 ^d	-.327	.744	-.035	.939	1.065	.209
	Den_d	-.027 ^d	-.141	.888	-.015	.261	3.832	.157
	CC_d	-.044 ^d	-.450	.654	-.048	.989	1.011	.210

	GD_d	-.065 ^d	-.513	.609	-.055	.584	1.713	.164
	TSpats_d	.128 ^d	.199	.843	.021	.022	44.742	.022
	AvgPL_d	.088 ^d	.425	.672	.046	.218	4.589	.070
	AvgGL_d	.134 ^d	.675	.502	.073	.233	4.296	.087
	PL_TpoutN	.068 ^d	.649	.518	.070	.847	1.180	.209
	PL_TSpout N	-.006 ^d	-.054	.957	-.006	.720	1.388	.206
	S_pro	.057 ^d	.449	.654	.048	.569	1.759	.201
	SMSP_d	-.045 ^d	-.462	.645	-.050	.988	1.012	.210
4	Edges_d	-.316 ^e	-1.448	.151	-.153	.190	5.277	.187
	Reciprocity	-.023 ^e	-.229	.819	-.025	.952	1.051	.910
	Den_d	.050 ^e	.311	.756	.033	.354	2.827	.341
	CC_d	-.037 ^e	-.383	.702	-.041	.995	1.005	.951
	GD_d	-.016 ^e	-.136	.892	-.015	.693	1.443	.693
	TSpats_d	-.089 ^e	-.151	.880	-.016	.027	37.732	.026
	AvgPL_d	.133 ^e	.894	.374	.095	.413	2.423	.413
	AvgGL_d	.163 ^e	1.064	.290	.113	.390	2.563	.390
	PL_TpoutN	.059 ^e	.565	.573	.060	.855	1.169	.819
	PL_TSpout N	-.022 ^e	-.195	.846	-.021	.741	1.349	.739
	S_pro	.076 ^e	.606	.546	.065	.591	1.693	.589
	SMSP_d	-.038 ^e	-.394	.694	-.042	.995	1.006	.951
	Nodes	-.176 ^e	-.848	.399	-.091	.212	4.713	.211

a. Dependent Variable: EVCout_TpoutN

b. Predictors in the Model: (Constant), Nodes

c. Predictors in the Model: (Constant), Nodes, R_pro

d. Predictors in the Model: (Constant), Nodes, R_pro, Tpaths_d

e. Predictors in the Model: (Constant), R_pro, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Nodes	R_pro
1	1	1.921	1.000	.04	.04	
	2	.079	4.918	.96	.96	
2	1	2.869	1.000	.00	.02	.00
	2	.119	4.902	.01	.82	.05
	3	.011	16.017	.98	.17	.95
3	1	3.865	1.000	.00	.00	.00
	2	.122	5.635	.00	.19	.02
	3	.012	17.585	.06	.07	.65
	4	.001	75.420	.94	.74	.33
4	1	2.981	1.000	.00		.00
	2	.017	13.335	.05		1.00
	3	.002	34.730	.95		.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		Tpaths_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.01
	4	.99
4	1	.00
	2	.05
	3	.95

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	- .01603741198 7782	.06337961554 5273	.01098901098 9011	.01173105512 5139
Std. Predicted Value	-2.304	4.466	.000	1.000
Standard Error of Predicted Value	.003	.014	.004	.002
Adjusted Predicted Value	- .01910271868 1097	.09483361989 2597	.01102881662 8634	.01298281531 5425
Residual	- .06337961554 5273	.08122131228 4470	.00000000000 0000	.02385343913 3864
Std. Residual	-2.627	3.367	.000	.989
Stud. Residual	-3.214	3.394	.000	1.032
Deleted Residual	- .09483361989 2597	.08252245932 8175	- .00003980563 9623	.02617095889 6271
Stud. Deleted Residual	-3.401	3.620	.008	1.064
Mahal. Distance	.016	28.862	1.978	3.813
Cook's Distance	.000	1.709	.037	.189
Centered Leverage Value	.000	.321	.022	.042

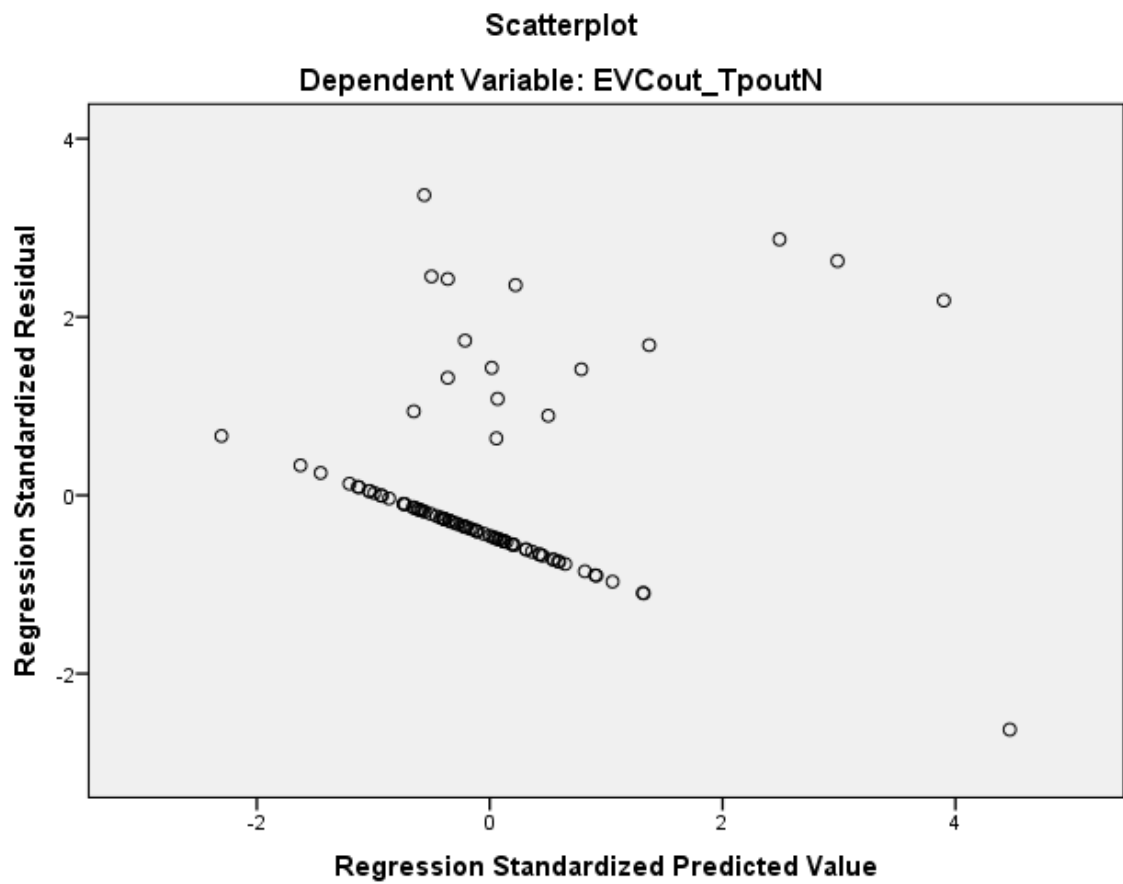
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91

Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout_TSpoutN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:14:50
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCut_TSpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	17472 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_8	Cook's Distance

Variables Entered/Removed^a

a. Dependent Variable: EVCout_TSpoutN

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.320 ^a	.102	.092	.02525619998 3753
2	.401 ^b	.161	.142	.02456081429 5178
3	.472 ^c	.222	.196	.02377741286 3352
4	.462 ^d	.214	.196	.02377660232 8757

a. Predictors: (Constant), Nodes

b. Predictors: (Constant), Nodes, R_pro

c. Predictors: (Constant), Nodes, R_pro, Tpaths_d

d. Predictors: (Constant), R_pro, Tpaths_d

e. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.006	1	.006	10.163	.002 ^b
	Residual	.057	89	.001		
	Total	.063	90			
2	Regression	.010	2	.005	8.429	.000 ^c
	Residual	.053	88	.001		
	Total	.063	90			
3	Regression	.014	3	.005	8.294	.000 ^d
	Residual	.049	87	.001		
	Total	.063	90			
4	Regression	.014	2	.007	11.945	.000 ^e
	Residual	.050	88	.001		
	Total	.063	90			

a. Dependent Variable: EVCout_TSpoutN

b. Predictors: (Constant), Nodes

c. Predictors: (Constant), Nodes, R_pro

d. Predictors: (Constant), Nodes, R_pro, Tpaths_d

e. Predictors: (Constant), R_pro, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	-.009	.007		-1.314	.192
	Nodes	1.811	.568	.320	3.188	.002
2	(Constant)	.034	.018		1.827	.071
	Nodes	1.533	.564	.271	2.720	.008
	R_pro	-3.605	1.458	-.246	-2.472	.015
3	(Constant)	-.105	.056		-1.884	.063
	Nodes	-1.157	1.161	-.205	-.997	.322
	R_pro	-6.658	1.829	-.455	-3.640	.000
	Tpaths_d	18.400	7.008	.540	2.626	.010
4	(Constant)	-.063	.036		-1.732	.087
	R_pro	-5.503	1.415	-.376	-3.888	.000
	Tpaths_d	12.234	3.294	.359	3.714	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Nodes	1.000	1.000
2	(Constant)		
	Nodes	.960	1.041
	R_pro	.960	1.041
3	(Constant)		

4	Nodes	.212	4.713
	R_pro	.572	1.748
	Tpaths_d	.211	4.736
	(Constant)		
	R_pro	.956	1.046
	Tpaths_d	.956	1.046

a. Dependent Variable: EVCont_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Edges_d	-1.096 ^b	-1.521	.132	-.160	.019	52.286	.019
	Reciprocity	-.055 ^b	-.544	.588	-.058	.988	1.012	.988
	Den_d	-.056 ^b	-.295	.769	-.031	.280	3.576	.280
	CC_d	-.041 ^b	-.405	.686	-.043	.999	1.001	.999
	GD_d	-.061 ^b	-.607	.545	-.065	.999	1.001	.999
	Tpaths_d	.064 ^b	.378	.706	.040	.354	2.822	.354
	TSpaths_d	.028 ^b	.156	.876	.017	.316	3.161	.316
	AvgPL_d	.061 ^b	.598	.552	.064	.960	1.042	.960
	AvgGL_d	.014 ^b	.138	.890	.015	.988	1.012	.988

	PL_TpoutN	-.082 ^b	-.815	.417	-.087	.996	1.005	.996
	PL_TSpout N	-.159 ^b	-1.590	.115	-.167	.997	1.003	.997
	S_pro	-.083 ^b	-.819	.415	-.087	.982	1.018	.982
	R_pro	-.246 ^b	-2.472	.015	-.255	.960	1.041	.960
	SMSP_d	-.042 ^b	-.416	.678	-.044	.999	1.001	.999
2	Edges_d	-.904 ^c	-1.276	.205	-.136	.019	53.015	.019
	Reciprocity	-.006 ^c	-.062	.951	-.007	.947	1.056	.921
	Den_d	-.133 ^c	-.711	.479	-.076	.272	3.672	.263
	CC_d	-.025 ^c	-.257	.798	-.028	.994	1.006	.956
	GD_d	.078 ^c	.690	.492	.074	.753	1.329	.723
	Tpaths_d	.540 ^c	2.626	.010	.271	.211	4.736	.211
	TSpaths_d	.542 ^c	2.423	.017	.251	.180	5.541	.180
	AvgPL_d	.292 ^c	2.492	.015	.258	.658	1.521	.658
	AvgGL_d	.302 ^c	2.389	.019	.248	.565	1.770	.549
	PL_TpoutN	.010 ^c	.090	.928	.010	.857	1.167	.826
	PL_TSpout N	-.045 ^c	-.389	.698	-.042	.727	1.376	.700
	S_pro	.115 ^c	.906	.368	.097	.596	1.678	.583
	SMSP_d	-.026 ^c	-.265	.791	-.028	.994	1.006	.956
3	Edges_d	-1.737 ^d	-2.434	.017	-.254	.017	60.217	.017
	Reciprocity	-.030 ^d	-.306	.760	-.033	.939	1.065	.209
	Den_d	-.038 ^d	-.202	.840	-.022	.261	3.832	.157
	CC_d	-.045 ^d	-.466	.642	-.050	.989	1.011	.210

	GD_d	-.074 ^d	-.597	.552	-.064	.584	1.713	.164
	TSpats_d	-.039 ^d	-.061	.951	-.007	.022	44.742	.022
	AvgPL_d	.125 ^d	.613	.542	.066	.218	4.589	.070
	AvgGL_d	.119 ^d	.607	.545	.065	.233	4.296	.087
	PL_TpoutN	.038 ^d	.367	.714	.040	.847	1.180	.209
	PL_TSpout N	-.017 ^d	-.156	.877	-.017	.720	1.388	.206
	S_pro	.048 ^d	.380	.705	.041	.569	1.759	.201
	SMSP_d	-.046 ^d	-.479	.633	-.052	.988	1.012	.210
4	Edges_d	-.359 ^e	-1.670	.099	-.176	.190	5.277	.187
	Reciprocity	-.019 ^e	-.191	.849	-.020	.952	1.051	.910
	Den_d	.053 ^e	.335	.739	.036	.354	2.827	.341
	CC_d	-.037 ^e	-.387	.700	-.041	.995	1.005	.951
	GD_d	-.018 ^e	-.154	.878	-.016	.693	1.443	.693
	TSpats_d	-.262 ^e	-.449	.654	-.048	.027	37.732	.026
	AvgPL_d	.167 ^e	1.134	.260	.121	.413	2.423	.413
	AvgGL_d	.167 ^e	1.106	.272	.118	.390	2.563	.390
	PL_TpoutN	.028 ^e	.270	.788	.029	.855	1.169	.819
	PL_TSpout N	-.035 ^e	-.320	.750	-.034	.741	1.349	.739
	S_pro	.070 ^e	.566	.573	.061	.591	1.693	.589
	SMSP_d	-.038 ^e	-.399	.691	-.043	.995	1.006	.951
	Nodes	-.205 ^e	-.997	.322	-.106	.212	4.713	.211

a. Dependent Variable: EVCout_TSpoutN

b. Predictors in the Model: (Constant), Nodes

c. Predictors in the Model: (Constant), Nodes, R_pro

d. Predictors in the Model: (Constant), Nodes, R_pro, Tpaths_d

e. Predictors in the Model: (Constant), R_pro, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Nodes	R_pro
1	1	1.921	1.000	.04	.04	
	2	.079	4.918	.96	.96	
2	1	2.869	1.000	.00	.02	.00
	2	.119	4.902	.01	.82	.05
	3	.011	16.017	.98	.17	.95
3	1	3.865	1.000	.00	.00	.00
	2	.122	5.635	.00	.19	.02
	3	.012	17.585	.06	.07	.65
	4	.001	75.420	.94	.74	.33
4	1	2.981	1.000	.00		.00
	2	.017	13.335	.05		1.00
	3	.002	34.730	.95		.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		Tpaths_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.00
	3	.01
	4	.99
4	1	.00
	2	.05
	3	.95

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
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Predicted Value	- .01657985337 0786	.06636448949 5754	.01098901098 9011	.01224976343 5072
Std. Predicted Value	-2.251	4.521	.000	1.000
Standard Error of Predicted Value	.003	.014	.004	.002
Adjusted Predicted Value	- .01974884048 1043	.09929982572 7940	.01102863627 8933	.01358239047 4376
Residual	- .06636448949 5754	.07146023213 8634	.00000000000 0000	.02351093362 9174
Std. Residual	-2.791	3.005	.000	.989
Stud. Residual	-3.414	3.153	.000	1.036
Deleted Residual	- .09929982572 7940	.07866340875 6256	- .00003962528 9922	.02602230805 3471
Stud. Deleted Residual	-3.645	3.329	.007	1.069
Mahal. Distance	.016	28.862	1.978	3.813
Cook's Distance	.000	1.928	.041	.212
Centered Leverage Value	.000	.321	.022	.042

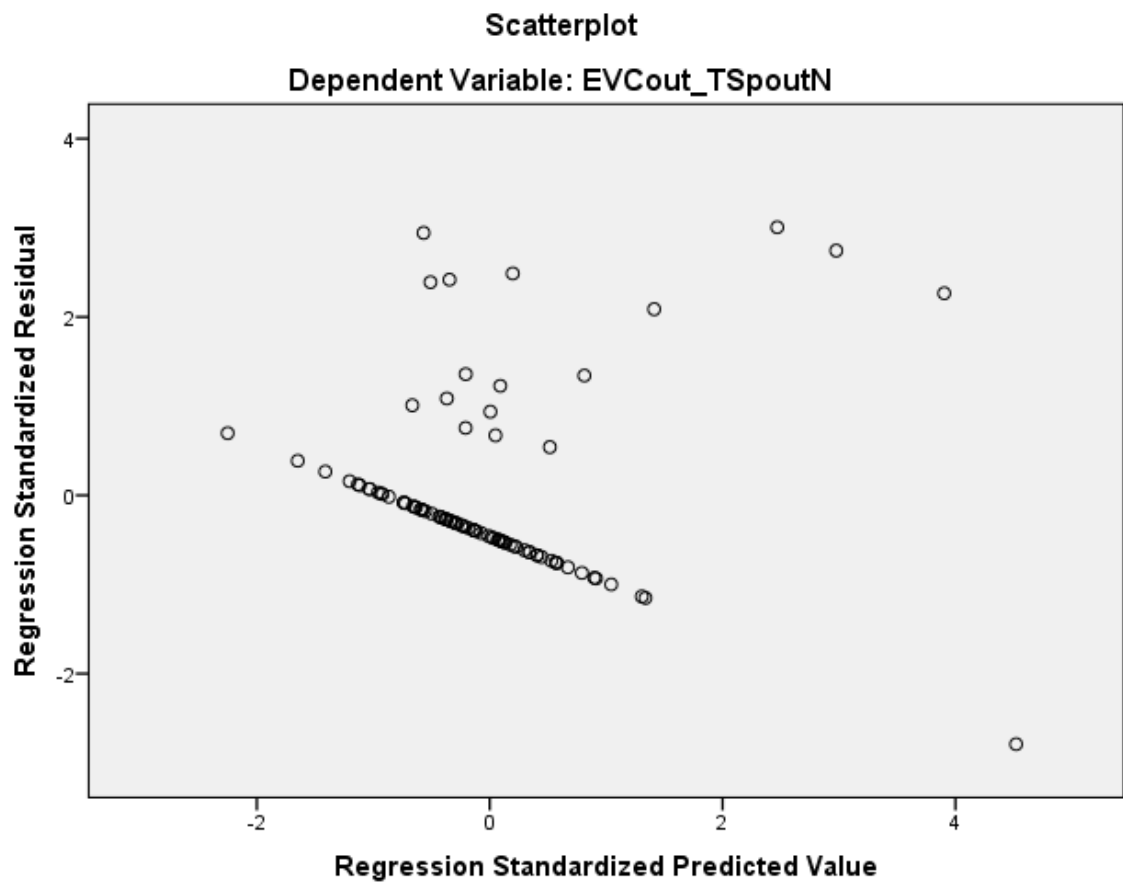
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91

Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpouts_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECout /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
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Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Reciprocity		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECont

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.579 ^a	.336	.328	.00244504019 1064

a. Predictors: (Constant), Reciprocity

b. Dependent Variable: ECont

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.000	1	.000	44.479	.000 ^b
	Residual	.001	88	.000		
	Total	.001	89			

a. Dependent Variable: ECont

b. Predictors: (Constant), Reciprocity

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.012	.000		41.349	.000
	Reciprocity	-.081	.012	-.579	-6.669	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Reciprocity	1.000	1.000

a. Dependent Variable: ECont

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.068 ^b	-.769	.444	-.082	.976	1.024
	Edges_d	-.102 ^b	-1.171	.245	-.125	.984	1.016
	Den_d	.049 ^b	.552	.582	.059	.948	1.055
	CC_d	.101 ^b	1.054	.295	.112	.827	1.209
	GD_d	-.028 ^b	-.310	.757	-.033	.930	1.075
	Tpaths_d	-.095 ^b	-1.094	.277	-.117	.999	1.001
	TSpaths_d	-.107 ^b	-1.232	.221	-.131	.998	1.002
	AvgPL_d	-.015 ^b	-.169	.866	-.018	.931	1.074
	AvgGL_d	-.040 ^b	-.453	.652	-.049	.974	1.027
	PL_TpoutN	-.107 ^b	-1.231	.222	-.131	.991	1.009
	PL_TSpoutN	-.086 ^b	-.995	.322	-.106	1.000	1.000
	S_pro	.059 ^b	.674	.502	.072	.989	1.011
	R_pro	-.043 ^b	-.482	.631	-.052	.951	1.051
	SMSP_d	.099 ^b	1.037	.303	.111	.824	1.214

Excluded Variables^a

Model	Collinearity Statistics
	Minimum Tolerance

1	Nodes	.976
	Edges_d	.984
	Den_d	.948
	CC_d	.827
	GD_d	.930
	Tpaths_d	.999
	TSpaths_d	.998
	AvgPL_d	.931
	AvgGL_d	.974
	PL_TpoutN	.991
	PL_TSpoutN	1.000
	S_pro	.989
	R_pro	.951
	SMSP_d	.824

a. Dependent Variable: Ecout

b. Predictors in the Model: (Constant), Reciprocity

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Reciprocity

1	1	1.458	1.000	.27	.27
	2	.542	1.641	.73	.73

a. Dependent Variable: ECont

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00494177406 6538	.01199024077 5049	.01110389379 2939	.00172849117 6307
Std. Predicted Value	-3.565	.513	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00437946198 5081	.01209546625 6142	.01109294627 4700	.00177026475 5113
Residual	- .00813855696 4695	.00438263546 6754	.00000000000 0000	.00243126520 7135
Std. Residual	-3.329	1.792	.000	.994
Stud. Residual	-3.355	1.877	.002	1.007
Deleted Residual	- .00826989579 9458	.00480770086 8696	.00001094751 8239	.00249463358 2642
Stud. Deleted Residual	-3.573	1.905	-.006	1.027
Mahal. Distance	.017	12.709	.989	2.245
Cook's Distance	.000	.172	.013	.031

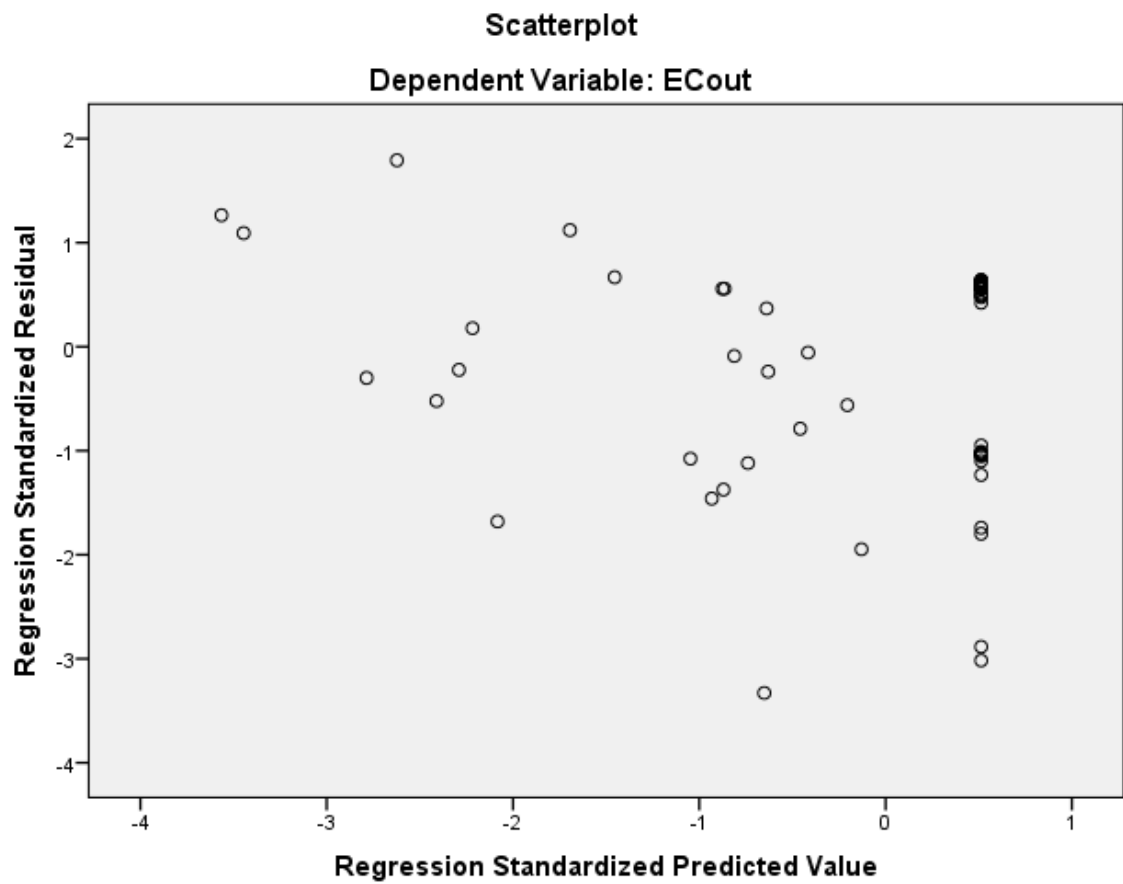
Centered Leverage Value	.000	.143	.011	.025
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Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: ECont

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout_TpoutN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpats_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCut_TpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	17552 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_10	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Nodes		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCout_TpoutN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.427 ^a	.183	.173	.02428182202 4274
2	.480 ^b	.231	.213	.02369328878 9496
3	.582 ^c	.339	.316	.02208686396 3126

a. Predictors: (Constant), Nodes

b. Predictors: (Constant), Nodes, R_pro

c. Predictors: (Constant), Nodes, R_pro, AvgPL_d

d. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.012	1	.012	19.652	.000 ^b
	Residual	.052	88	.001		
	Total	.063	89			
2	Regression	.015	2	.007	13.033	.000 ^c
	Residual	.049	87	.001		
	Total	.063	89			
3	Regression	.022	3	.007	14.704	.000 ^d

Residual	.042	86	.000		
Total	.063	89			

a. Dependent Variable: EVCont_TpoutN

b. Predictors: (Constant), Nodes

c. Predictors: (Constant), Nodes, R_pro

d. Predictors: (Constant), Nodes, R_pro, AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.022	.008		-2.785	.007
	Nodes	3.096	.698	.427	4.433	.000
2	(Constant)	.018	.019		.941	.349
	Nodes	2.783	.695	.384	4.006	.000
	R_pro	-3.283	1.410	-.223	-2.329	.022
3	(Constant)	-.002	.018		-.096	.924
	Nodes	2.577	.650	.356	3.966	.000
	R_pro	-6.735	1.603	-.458	-4.201	.000
	AvgPL_d	5.448	1.450	.402	3.757	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Nodes	1.000	1.000
2	(Constant)		
	Nodes	.962	1.039
	R_pro	.962	1.039
3	(Constant)		
	Nodes	.956	1.046
	R_pro	.646	1.547
	AvgPL_d	.670	1.491

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Edges_d	-.947 ^b	-1.726	.088	-.182	.030	33.147	.030
	Reciprocity	-.026 ^b	-.265	.791	-.028	.976	1.024	.976
	Den_d	.266 ^b	1.382	.170	.147	.249	4.017	.249

	CC_d	-.038 ^b	-.388	.699	-.042	.999	1.001	.999
	GD_d	.010 ^b	.103	.918	.011	.969	1.032	.969
	Tpaths_d	.067 ^b	.483	.630	.052	.494	2.025	.494
	TSpaths_d	-.006 ^b	-.038	.970	-.004	.418	2.391	.418
	AvgPL_d	.145 ^b	1.509	.135	.160	.998	1.002	.998
	AvgGL_d	.073 ^b	.758	.450	.081	.998	1.002	.998
	PL_TpoutN	-.033 ^b	-.340	.734	-.036	.991	1.009	.991
	PL_TSpout N	-.149 ^b	-1.554	.124	-.164	.998	1.002	.998
	S_pro	-.068 ^b	-.702	.484	-.075	.985	1.016	.985
	R_pro	-.223 ^b	-2.329	.022	-.242	.962	1.039	.962
	SMSP_d	-.039 ^b	-.403	.688	-.043	.999	1.001	.999
2	Edges_d	-.804 ^c	-1.484	.141	-.158	.030	33.656	.029
	Reciprocity	.018 ^c	.189	.850	.020	.938	1.066	.925
	Den_d	.180 ^c	.933	.354	.100	.238	4.209	.230
	CC_d	-.024 ^c	-.249	.804	-.027	.995	1.005	.959
	GD_d	.160 ^c	1.467	.146	.156	.729	1.371	.724
	Tpaths_d	.442 ^c	2.639	.010	.274	.295	3.387	.295
	TSpaths_d	.386 ^c	2.031	.045	.214	.236	4.238	.236
	AvgPL_d	.402 ^c	3.757	.000	.375	.670	1.491	.646
	AvgGL_d	.383 ^c	3.229	.002	.329	.567	1.765	.546
	PL_TpoutN	.056 ^c	.551	.583	.059	.855	1.170	.830

	PL_TSpout N	-.047 ^c	-.425	.672	-.046	.726	1.378	.700
	S_pro	.115 ^c	.946	.347	.101	.598	1.672	.585
	SMSP_d	-.025 ^c	-.261	.795	-.028	.994	1.006	.958
3	Edges_d	-.835 ^d	-1.658	.101	-.177	.030	33.665	.029
	Reciprocity	-.045 ^d	-.482	.631	-.052	.907	1.102	.644
	Den_d	.164 ^d	.911	.365	.098	.237	4.212	.229
	CC_d	-.065 ^d	-.733	.465	-.079	.980	1.021	.646
	GD_d	-.092 ^d	-.733	.466	-.079	.487	2.051	.448
	Tpaths_d	-.289 ^d	-.924	.358	-.100	.079	12.691	.079
	TSpaths_d	-.201 ^d	-.776	.440	-.084	.116	8.656	.116
	AvgGL_d	.061 ^d	.288	.774	.031	.173	5.768	.173
	PL_TpoutN	.098 ^d	1.026	.308	.111	.844	1.185	.559
	PL_TSpout N	.027 ^d	.259	.796	.028	.700	1.429	.466
	S_pro	.021 ^d	.178	.859	.019	.568	1.760	.499
	SMSP_d	-.066 ^d	-.747	.457	-.081	.979	1.021	.646

a. Dependent Variable: EVCout_TpoutN

b. Predictors in the Model: (Constant), Nodes

c. Predictors in the Model: (Constant), Nodes, R_pro

d. Predictors in the Model: (Constant), Nodes, R_pro, AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Nodes	R_pro
1	1	1.946	1.000	.03	.03	
	2	.054	5.997	.97	.97	
2	1	2.904	1.000	.00	.01	.00
	2	.085	5.843	.02	.78	.08
	3	.011	16.427	.98	.21	.92
3	1	3.879	1.000	.00	.01	.00
	2	.097	6.339	.00	.77	.03
	3	.015	16.336	.43	.05	.06
	4	.010	19.448	.57	.17	.92

Collinearity Diagnostics^a

Model Dimension		Variance Proportions
		AvgPL_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.02

3	.82
4	.16

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01772320084 2738	.09448670595 8843	.01111111111 1111	.01554946326 5811
Std. Predicted Value	-1.854	5.362	.000	1.000
Standard Error of Predicted Value	.002	.016	.004	.002
Adjusted Predicted Value	- .02125734649 5986	.08083046972 7516	.01094586341 2398	.01464027091 8103
Residual	- .02992396242 9166	.08366445451 9749	.00000000000 0000	.02171142249 3728
Std. Residual	-1.355	3.788	.000	.983
Stud. Residual	-1.422	3.820	.003	1.009
Deleted Residual	- .03561524674 2964	.08508884906 7688	.00016524769 8713	.02294140781 1462
Stud. Deleted Residual	-1.431	4.168	.014	1.041
Mahal. Distance	.039	46.414	2.967	6.912

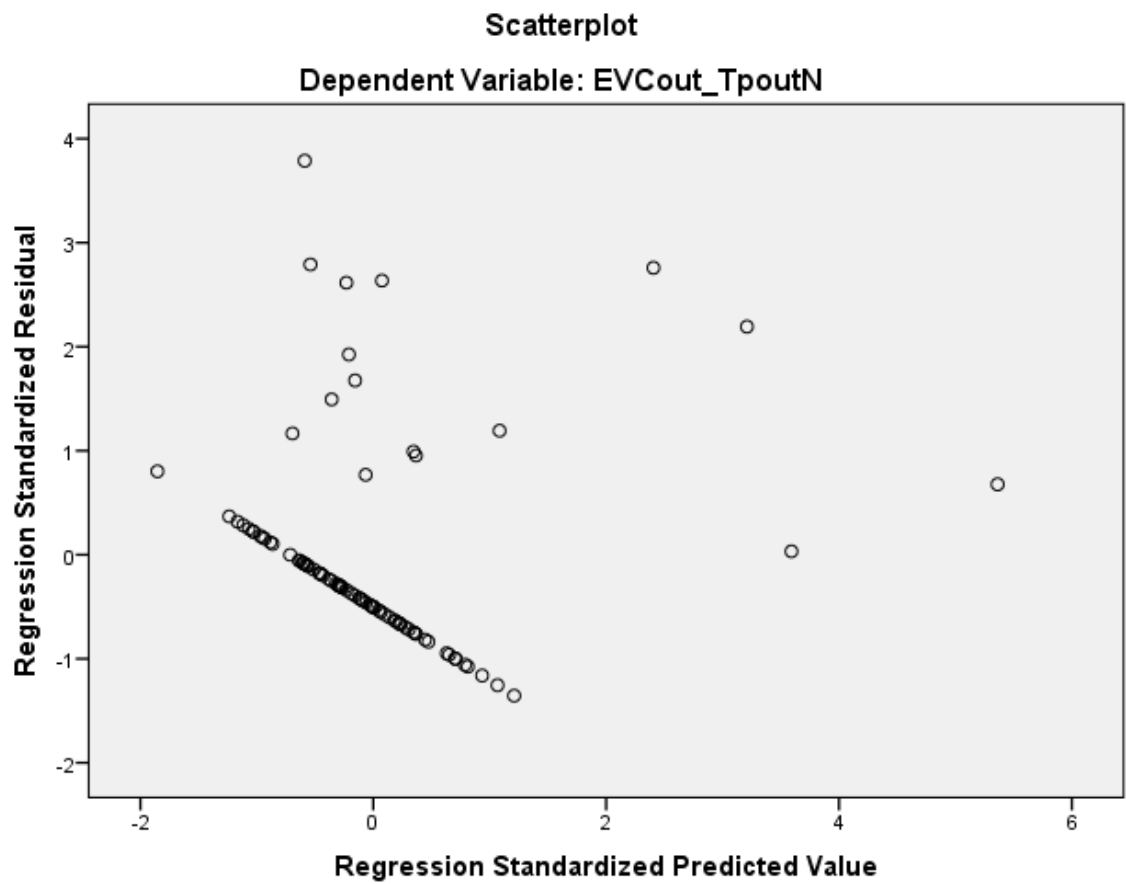
Cook's Distance	.000	.242	.015	.043
Centered Leverage Value	.000	.522	.033	.078

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: EVCut_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout_TSpoutN

/METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d
AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Split File	<none>
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCut_TSpoutN /METHOD=STEPWISE Nodes Edges_d Reciprocity Den_d CC_d GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.19
	Memory Required	17600 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_11	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Nodes		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCout_TSpoutN

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.445 ^a	.198	.189	.02398660416 4399
2	.498 ^b	.248	.230	.02336362117 9316
3	.616 ^c	.379	.358	.02134630849 8873

a. Predictors: (Constant), Nodes

b. Predictors: (Constant), Nodes, R_pro

c. Predictors: (Constant), Nodes, R_pro, AvgPL_d

d. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.013	1	.013	21.726	.000 ^b
	Residual	.051	88	.001		
	Total	.063	89			
2	Regression	.016	2	.008	14.328	.000 ^c
	Residual	.047	87	.001		
	Total	.063	89			
3	Regression	.024	3	.008	17.516	.000 ^d

Residual	.039	86	.000		
Total	.063	89			

a. Dependent Variable: EVCut_TSpoutN

b. Predictors: (Constant), Nodes

c. Predictors: (Constant), Nodes, R_pro

d. Predictors: (Constant), Nodes, R_pro, AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.023	.008		-2.983	.004
	Nodes	3.216	.690	.445	4.661	.000
2	(Constant)	.017	.018		.918	.361
	Nodes	2.898	.685	.401	4.230	.000
	R_pro	-3.335	1.390	-.227	-2.399	.019
3	(Constant)	-.004	.017		-.245	.807
	Nodes	2.672	.628	.370	4.254	.000
	R_pro	-7.124	1.550	-.486	-4.598	.000
	AvgPL_d	5.982	1.402	.443	4.269	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Nodes	1.000	1.000
2	(Constant)		
	Nodes	.962	1.039
	R_pro	.962	1.039
3	(Constant)		
	Nodes	.956	1.046
	R_pro	.646	1.547
	AvgPL_d	.670	1.491

a. Dependent Variable: EVCout_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Edges_d	-1.026 ^b	-1.894	.062	-.199	.030	33.147	.030
	Reciprocity	-.021 ^b	-.221	.826	-.024	.976	1.024	.976
	Den_d	.257 ^b	1.349	.181	.143	.249	4.017	.249

	CC_d	-.037 ^b	-.386	.700	-.041	.999	1.001	.999
	GD_d	.014 ^b	.142	.888	.015	.969	1.032	.969
	Tpaths_d	.087 ^b	.639	.525	.068	.494	2.025	.494
	TSpaths_d	.002 ^b	.013	.990	.001	.418	2.391	.418
	AvgPL_d	.170 ^b	1.797	.076	.189	.998	1.002	.998
	AvgGL_d	.082 ^b	.854	.395	.091	.998	1.002	.998
	PL_TpoutN	-.062 ^b	-.642	.522	-.069	.991	1.009	.991
	PL_TSpout N	-.161 ^b	-1.705	.092	-.180	.998	1.002	.998
	S_pro	-.073 ^b	-.756	.452	-.081	.985	1.016	.985
	R_pro	-.227 ^b	-2.399	.019	-.249	.962	1.039	.962
	SMSP_d	-.039 ^b	-.402	.689	-.043	.999	1.001	.999
2	Edges_d	-.882 ^c	-1.650	.103	-.175	.030	33.656	.029
	Reciprocity	.024 ^c	.250	.803	.027	.938	1.066	.925
	Den_d	.169 ^c	.886	.378	.095	.238	4.209	.230
	CC_d	-.023 ^c	-.244	.808	-.026	.995	1.005	.959
	GD_d	.168 ^c	1.557	.123	.166	.729	1.371	.724
	Tpaths_d	.482 ^c	2.939	.004	.302	.295	3.387	.295
	TSpaths_d	.407 ^c	2.171	.033	.228	.236	4.238	.236
	AvgPL_d	.443 ^c	4.269	.000	.418	.670	1.491	.646
	AvgGL_d	.403 ^c	3.458	.001	.349	.567	1.765	.546
	PL_TpoutN	.025 ^c	.245	.807	.026	.855	1.170	.830

	PL_TSpout N	-.061 ^c	-.559	.577	-.060	.726	1.378	.700
	S_pro	.112 ^c	.930	.355	.100	.598	1.672	.585
	SMSP_d	-.024 ^c	-.256	.798	-.028	.994	1.006	.958
3	Edges_d	-.916 ^d	-1.885	.063	-.200	.030	33.665	.029
	Reciprocity	-.045 ^d	-.504	.616	-.055	.907	1.102	.644
	Den_d	.152 ^d	.868	.388	.094	.237	4.212	.229
	CC_d	-.068 ^d	-.796	.428	-.086	.980	1.021	.646
	GD_d	-.114 ^d	-.939	.350	-.101	.487	2.051	.448
	Tpaths_d	-.334 ^d	-1.105	.272	-.119	.079	12.691	.079
	TSpaths_d	-.258 ^d	-1.033	.304	-.111	.116	8.656	.116
	AvgGL_d	.004 ^d	.020	.984	.002	.173	5.768	.173
	PL_TpoutN	.070 ^d	.756	.452	.082	.844	1.185	.559
	PL_TSpout N	.020 ^d	.199	.843	.022	.700	1.429	.466
	S_pro	.007 ^d	.064	.949	.007	.568	1.760	.499
	SMSP_d	-.070 ^d	-.811	.420	-.088	.979	1.021	.646

a. Dependent Variable: EVCout_TSpoutN

b. Predictors in the Model: (Constant), Nodes

c. Predictors in the Model: (Constant), Nodes, R_pro

d. Predictors in the Model: (Constant), Nodes, R_pro, AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Nodes	R_pro
1	1	1.946	1.000	.03	.03	
	2	.054	5.997	.97	.97	
2	1	2.904	1.000	.00	.01	.00
	2	.085	5.843	.02	.78	.08
	3	.011	16.427	.98	.21	.92
3	1	3.879	1.000	.00	.01	.00
	2	.097	6.339	.00	.77	.03
	3	.015	16.336	.43	.05	.06
	4	.010	19.448	.57	.17	.92

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgPL_d
1	1	
	2	
2	1	
	2	
	3	
3	1	.00
	2	.02

3	.82
4	.16

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01862017065 2866	.09779722243 5474	.01111111111 1111	.01640244672 9707
Std. Predicted Value	-1.813	5.285	.000	1.000
Standard Error of Predicted Value	.002	.016	.004	.002
Adjusted Predicted Value	- .02233318053 1859	.08418512344 3604	.01089473430 1232	.01531226782 0062
Residual	- .03060821816 3252	.07249780744 3142	.00000000000 0000	.02098345529 1536
Std. Residual	-1.434	3.396	.000	.983
Stud. Residual	-1.626	3.425	.004	1.012
Deleted Residual	- .03935278207 0637	.07373208552 5990	.00021637680 9880	.02230403076 9600
Stud. Deleted Residual	-1.642	3.664	.014	1.041
Mahal. Distance	.039	46.414	2.967	6.912

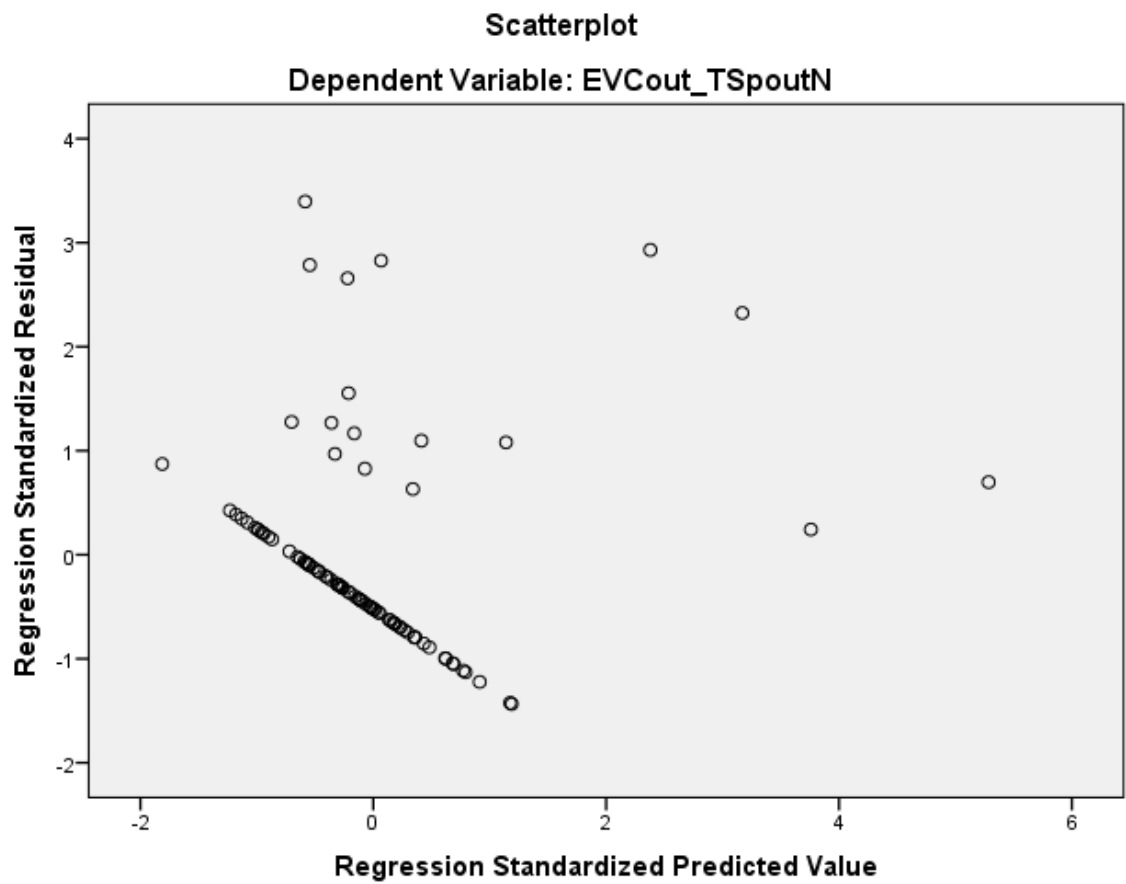
Cook's Distance	.000	.271	.017	.049
Centered Leverage Value	.000	.522	.033	.078

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: EVCout_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECont

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

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/SCATTERPLOT=(*ZRESID ,*ZPRED)
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/SAVE COOK.
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Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT ECont
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	5952 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	AvgPL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: Ecout

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.273 ^a	.075	.064	.00305924100 2711

a. Predictors: (Constant), AvgPL_d

b. Dependent Variable: Ecout

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.173	.009 ^b
	Residual	.001	89	.000		

Total	.001	90			
-------	------	----	--	--	--

a. Dependent Variable: ECont

b. Predictors: (Constant), AvgPL_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1	(Constant)	.015		9.062	.000
	AvgPL_d	-.409	-.273	-2.678	.009

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1		
	(Constant)	
	AvgPL_d	1.000
		1.000

a. Dependent Variable: ECont

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.065 ^b	-.459	.648	-.049	.518	1.930
	Tpaths_d	-.160 ^b	-1.165	.247	-.123	.546	1.832
	TSpaths_d	-.119 ^b	-.950	.345	-.101	.659	1.517
	AvgGL_d	.203 ^b	.902	.369	.096	.205	4.869

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.518	
	Tpaths_d	.546	
	TSpaths_d	.659	
	AvgGL_d	.205	

a. Dependent Variable: Ecout

b. Predictors in the Model: (Constant), AvgPL_d

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgPL_d

1	1	1.982	1.000	.01	.01
	2	.018	10.562	.99	.99

a. Dependent Variable: ECont

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00616540713 2357	.01148597802 9668	.01098901098 9011	.00086366293 7250
Std. Predicted Value	-5.585	.575	.000	1.000
Standard Error of Predicted Value	.000	.002	.000	.000
Adjusted Predicted Value	.00434985384 3451	.01151628140 3601	.01097935931 4138	.00095299256 2984
Residual	- .00875213369 7271	.00398951815 4413	.00000000000 0000	.00304219774 4737
Std. Residual	-2.861	1.304	.000	.994
Stud. Residual	-2.880	1.337	.001	1.011
Deleted Residual	- .00887052249 1634	.00507739325 9853	.000000965167 4873	.00314957621 7866
Stud. Deleted Residual	-3.008	1.343	-.004	1.023
Mahal. Distance	.001	31.193	.989	3.831
Cook's Distance	.000	.578	.019	.079

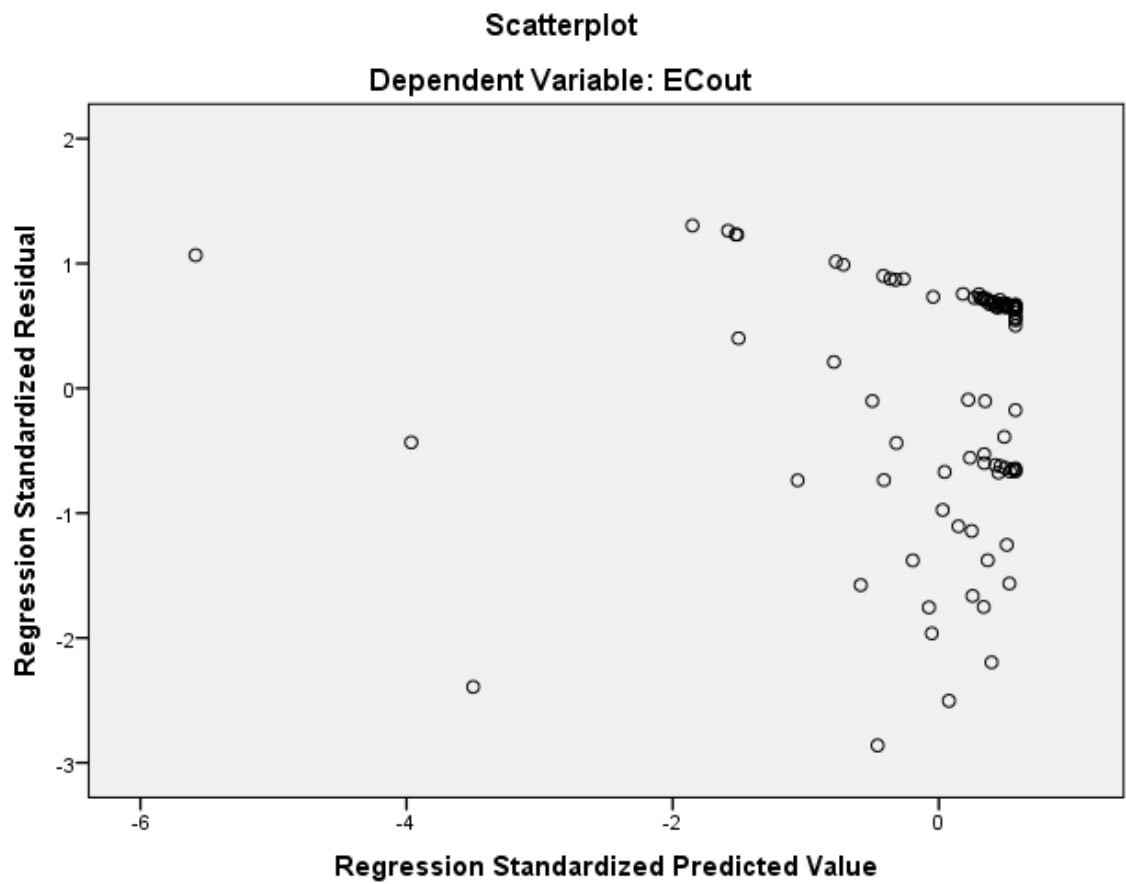
Centered Leverage Value	.000	.347	.011	.043
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECont

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Weight	<none>
	Split File	<none>
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT PL_EVCoutN
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpats_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
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	Elapsed Time	00:00:00.16
	Memory Required	6000 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or	COO_3	
Modified		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCoutN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.346 ^a	.119	.110	.01444862185 9804
2	.402 ^b	.161	.142	.01418061593 9451

a. Predictors: (Constant), GD_d

b. Predictors: (Constant), GD_d, Tpaths_d

c. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.003	1	.003	12.074	.001 ^b
	Residual	.019	89	.000		
	Total	.021	90			
2	Regression	.003	2	.002	8.465	.000 ^c
	Residual	.018	88	.000		
	Total	.021	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), GD_d

c. Predictors: (Constant), GD_d, Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.005	.005		-1.094	.277

	GD_d	1.494	.430	.346	3.475	.001
2	(Constant)	-.049	.021		-2.296	.024
	GD_d	1.162	.451	.269	2.577	.012
	Tpaths_d	4.301	2.052	.219	2.097	.039

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000
2	(Constant)		
	GD_d	.876	1.141
	Tpaths_d	.876	1.141

a. Dependent Variable: PL_EVCoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	.219 ^b	2.097	.039	.218	.876	1.141
	TSpaths_d	.199 ^b	1.953	.054	.204	.923	1.084
	AvgPL_d	.141 ^b	1.019	.311	.108	.518	1.930

	AvgGL_d	.096 ^b	.753	.454	.080	.608	1.646
2	TSpaths_d	-.501 ^c	-.746	.458	-.080	.021	47.186
	AvgPL_d	-.068 ^c	-.387	.700	-.041	.307	3.254
	AvgGL_d	-.055 ^c	-.375	.708	-.040	.443	2.257

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_d	.876
	TSpaths_d	.923
	AvgPL_d	.518
	AvgGL_d	.608
2	TSpaths_d	.020
	AvgPL_d	.307
	AvgGL_d	.443

a. Dependent Variable: PL_EVCoutN

b. Predictors in the Model: (Constant), GD_d

c. Predictors in the Model: (Constant), GD_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	GD_d	Tpaths_d
1	1	1.952	1.000	.02	.02	
	2	.048	6.396	.98	.98	
2	1	2.938	1.000	.00	.01	.00
	2	.059	7.035	.02	.92	.01
	3	.002	35.660	.98	.07	.99

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00096794456 4763	.03437853604 5551	.01098901098 9011	.00615047409 7075
Std. Predicted Value	-1.629	3.803	.000	1.000
Standard Error of Predicted Value	.001	.008	.002	.001
Adjusted Predicted Value	.00100967823 5278	.03881834447 3839	.01097980232 8832	.00610453141 3528
Residual	- .03290634974 8373	.03617724031 2099	.00000000000 0000	.01402216833 0165
Std. Residual	-2.321	2.551	.000	.989
Stud. Residual	-2.520	2.606	.000	1.014

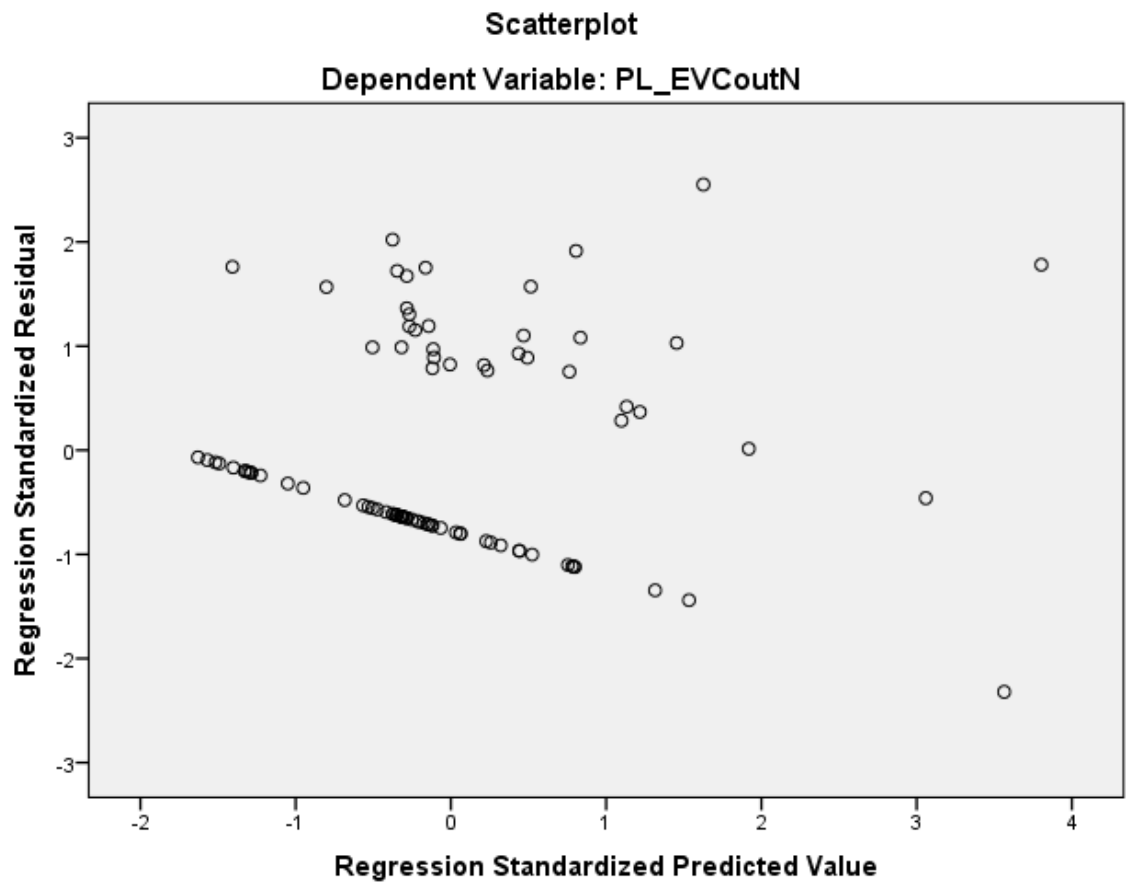
Deleted Residual	- .03881834447 3839	.03775246441 3643	.00000920866 0179	.01478971783 1487
Stud. Deleted Residual	-2.602	2.697	.003	1.024
Mahal. Distance	.002	25.529	1.978	3.423
Cook's Distance	.000	.626	.020	.077
Centered Leverage Value	.000	.284	.022	.038

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCut_TpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

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Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCout_TpoutN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
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	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCout_TpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.261 ^a	.068	.058	.02580571559 2047

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.004	1	.004	6.496	.013 ^b
	Residual	.059	89	.001		
	Total	.064	90			

a. Dependent Variable: EVCout_TpoutN

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.087	.039		-2.257	.026
	Tpaths_d	8.908	3.495	.261	2.549	.013

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.186 ^b	-1.723	.088	-.181	.876	1.141
	TSpaths_d	.068 ^b	.108	.914	.012	.027	37.537
	AvgPL_d	-.137 ^b	-.991	.324	-.105	.546	1.832
	AvgGL_d	-.179 ^b	-1.406	.163	-.148	.640	1.562

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.876
	TSpaths_d	.027
	AvgPL_d	.546
	AvgGL_d	.640

a. Dependent Variable: EVCout_TpoutN

b. Predictors in the Model: (Constant), Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.998	1.000	.00	.00
	2	.002	28.430	1.00	1.00

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00253678276 2036	.04598907008 7671	.01098901098 9011	.00693314740 5532
Std. Predicted Value	-1.951	5.048	.000	1.000
Standard Error of Predicted Value	.003	.014	.004	.001
Adjusted Predicted Value	- .00267954193 9870	.06515421718 3590	.01108825251 1952	.00800688129 1993
Residual	- .04598907008 7671	.09400366246 7003	.00000000000 0000	.02566195004 1164
Std. Residual	-1.782	3.643	.000	.994
Stud. Residual	-2.121	3.671	-.002	1.016

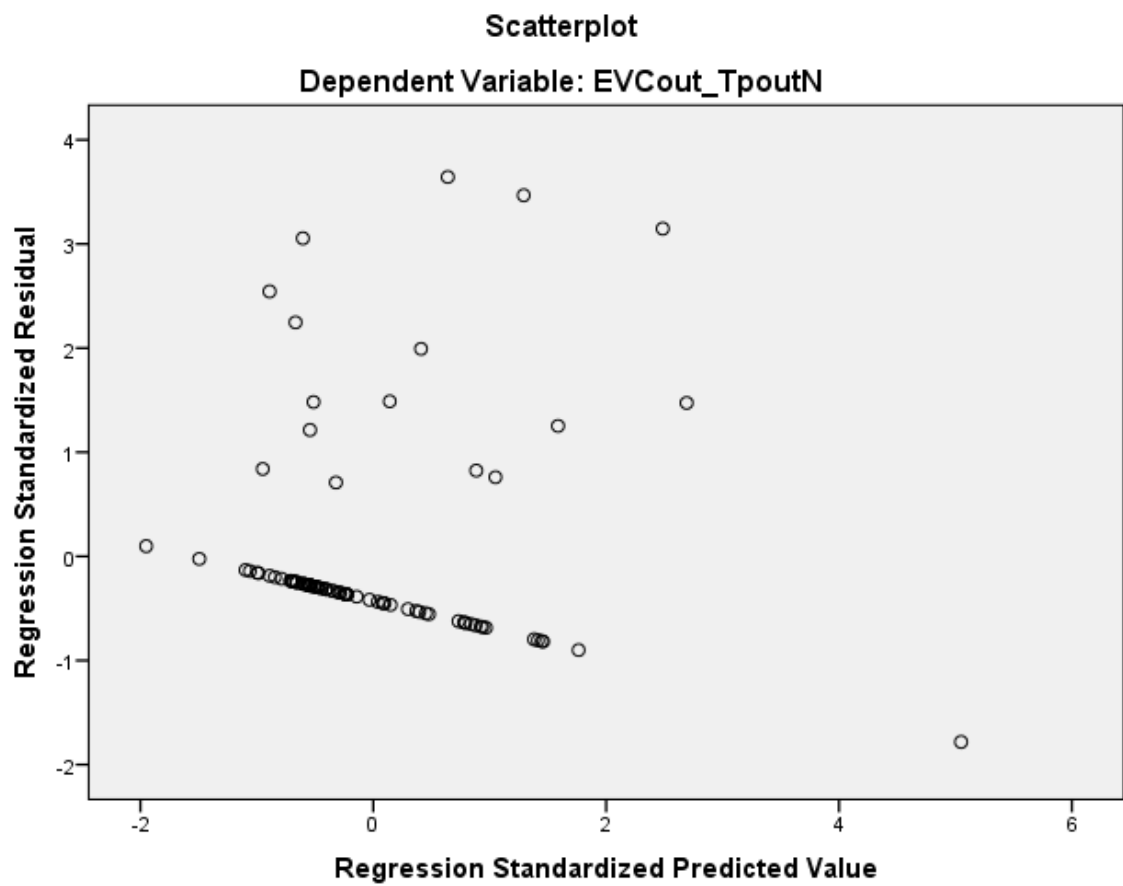
Deleted Residual	- .06515421718 3590	.09548754990 1009	- .00009924152 2941	.02684609476 7199
Stud. Deleted Residual	-2.165	3.963	.011	1.056
Mahal. Distance	.001	25.485	.989	2.837
Cook's Distance	.000	.938	.025	.111
Centered Leverage Value	.000	.283	.011	.032

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCut_TSpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

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	Split File	<none>
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		<p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT EVCout_TSpoutN</p> <p>/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCout_TSpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.280 ^a	.078	.068	.02559334609 1718

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.005	1	.005	7.568	.007 ^b
	Residual	.058	89	.001		
	Total	.063	90			

a. Dependent Variable: EVCout_TSpoutN

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.094	.038		-2.456	.016
	Tpaths_d	9.536	3.466	.280	2.751	.007

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000

a. Dependent Variable: EVCout_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.193 ^b	-1.802	.075	-.189	.876	1.141
	TSpaths_d	-.099 ^b	-.157	.875	-.017	.027	37.537
	AvgPL_d	-.120 ^b	-.869	.387	-.092	.546	1.832
	AvgGL_d	-.185 ^b	-1.466	.146	-.154	.640	1.562

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.876	
	TSpaths_d	.027	
	AvgPL_d	.546	
	AvgGL_d	.640	

a. Dependent Variable: EVCout_TSpoutN

b. Predictors in the Model: (Constant), Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.998	1.000	.00	.00
	2	.002	28.430	1.00	1.00

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00348959211 2601	.04845460876 8225	.01098901098 9011	.00742154519 5943
Std. Predicted Value	-1.951	5.048	.000	1.000
Standard Error of Predicted Value	.003	.014	.004	.001
Adjusted Predicted Value	- .00368597148 9176	.06864722818 1362	.01108997298 4820	.00854018641 4049
Residual	- .04845460876 8225	.09695331752 3003	.00000000000 0000	.02545076366 7034
Std. Residual	-1.893	3.788	.000	.994
Stud. Residual	-2.253	3.818	-.002	1.018

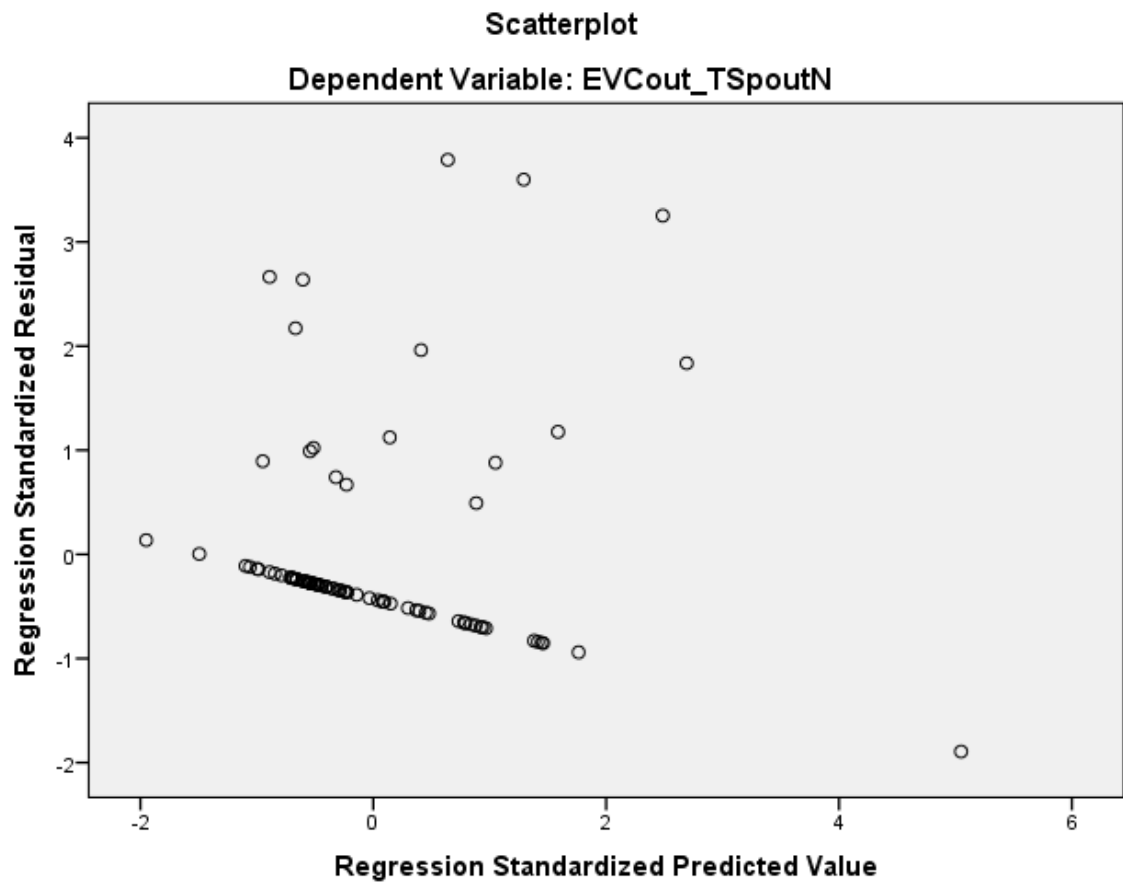
Deleted Residual	- .06864722818 1362	.09848376363 5159	- .00010096199 5809	.02672993885 8173
Stud. Deleted Residual	-2.308	4.152	.012	1.061
Mahal. Distance	.001	25.485	.989	2.837
Cook's Distance	.000	1.058	.027	.125
Centered Leverage Value	.000	.283	.011	.032

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCut_TSpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	28-MAY-2015 15:10:06	
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		<p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT EVCout_TSpoutN</p> <p>/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	6112 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCout_TSpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.360 ^a	.129	.119	.02499328294 1857

a. Predictors: (Constant), Tpaths_d

b. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.008	1	.008	13.065	.001 ^b
	Residual	.055	88	.001		
	Total	.063	89			

a. Dependent Variable: EVCout_TSpoutN

b. Predictors: (Constant), Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.147	.044		-3.355	.001
	Tpaths_d	14.483	4.007	.360	3.615	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_d	1.000	1.000

a. Dependent Variable: EVCout_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.197 ^b	-1.913	.059	-.201	.901	1.110
	TSpaths_d	-.399 ^b	-.730	.467	-.078	.033	30.036
	AvgPL_d	-.107 ^b	-.852	.397	-.091	.633	1.580
	AvgGL_d	-.220 ^b	-1.831	.070	-.193	.666	1.503

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.901	
	TSpaths_d	.033	
	AvgPL_d	.633	
	AvgGL_d	.666	

a. Dependent Variable: EVCout_TSpoutN

b. Predictors in the Model: (Constant), Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_d
1	1	1.998	1.000	.00	.00
	2	.002	33.324	1.00	1.00

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01024715043 6044	.04207625240 0875	.01111111111 1111	.00957602011 6414
Std. Predicted Value	-2.230	3.234	.000	1.000
Standard Error of Predicted Value	.003	.009	.004	.001
Adjusted Predicted Value	- .01098308246 5827	.03678558021 7838	.01098163107 8882	.00930619229 9163
Residual	- .03162317723 0358	.09373462200 1648	.00000000000 0000	.02485247459 3546
Std. Residual	-1.265	3.750	.000	.994
Stud. Residual	-1.307	3.786	.002	1.013

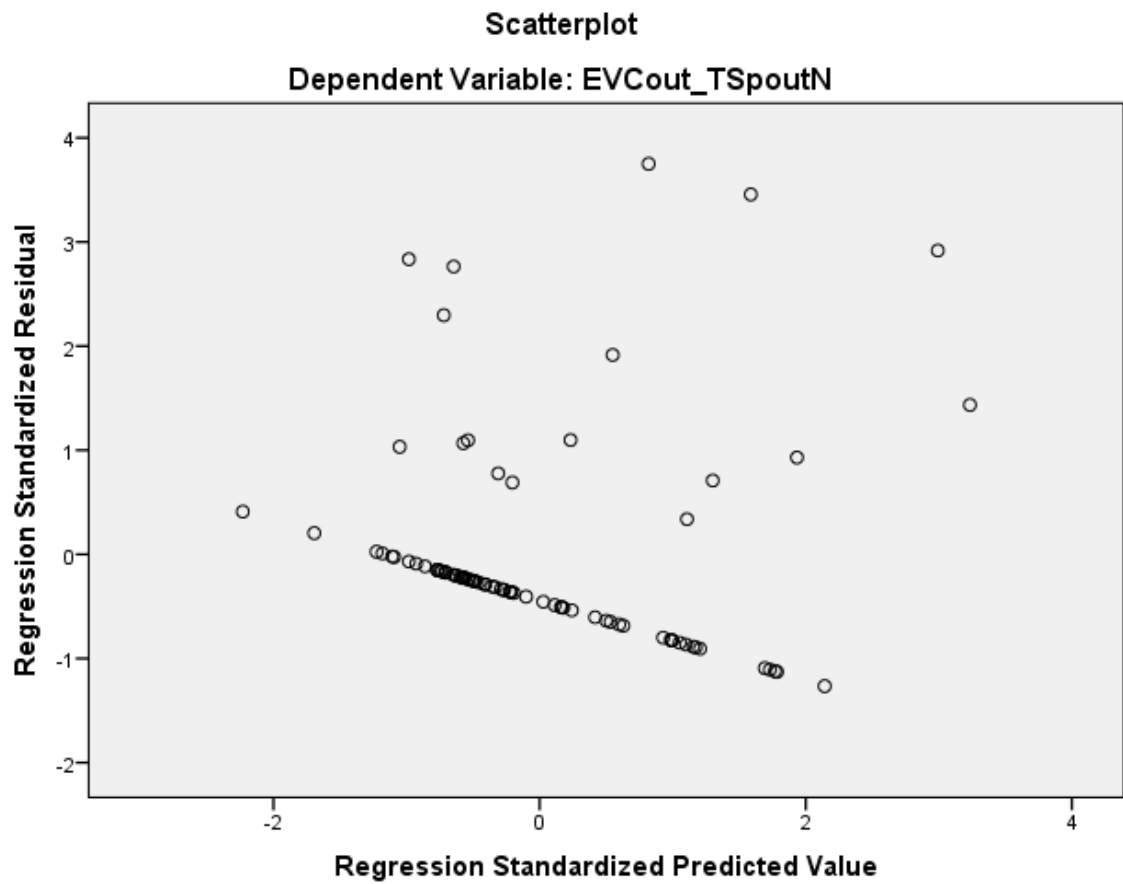
Deleted Residual	- .03373731300 2348	.09551645815 3725	.00012948003 2229	.02581045637 6139
Stud. Deleted Residual	-1.312	4.114	.015	1.053
Mahal. Distance	.001	10.456	.989	1.666
Cook's Distance	.000	.603	.020	.072
Centered Leverage Value	.000	.117	.011	.019

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: EVCout_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

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	Split File	<none>	
	N of Rows in Working Data File	91	

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TpoutN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.20
	Memory Required	5920 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.245 ^a	.060	.050	.00937220174 2906

a. Predictors: (Constant), GD_d

b. Dependent Variable: PL_TpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	5.701	.019 ^b
	Residual	.008	89	.000		
	Total	.008	90			

a. Dependent Variable: PL_TpoutN

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.004	.003		1.140	.257
	GD_d	.666	.279	.245	2.388	.019

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000

a. Dependent Variable: PL_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.049 ^b	-.448	.655	-.048	.876	1.141
	TSpaths_d	-.035 ^b	-.323	.748	-.034	.923	1.084
	AvgPL_d	-.089 ^b	-.623	.535	-.066	.518	1.930
	AvgGL_d	-.010 ^b	-.076	.940	-.008	.608	1.646

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_d	.876	
	TSpaths_d	.923	
	AvgPL_d	.518	
	AvgGL_d	.608	

a. Dependent Variable: PL_TpoutN

b. Predictors in the Model: (Constant), GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d
1	1	1.952	1.000	.02	.02
	2	.048	6.396	.98	.98

a. Dependent Variable: PL_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00734990090 1318	.01838853396 4753	.01098901098 9011	.00235889810 8682
Std. Predicted Value	-1.543	3.137	.000	1.000
Standard Error of Predicted Value	.001	.003	.001	.000
Adjusted Predicted Value	.00673496862 8734	.01906958967 4473	.01103314924 5749	.00238093357 8633
Residual	- .01470899023 1156	.01581254601 4786	.00000000000 0000	.00931998851 3564
Std. Residual	-1.569	1.687	.000	.994
Stud. Residual	-1.601	1.720	-.002	1.004
Deleted Residual	- .01529989484 6976	.01642747782 1708	- .00004413825 6738	.00950412506 9005

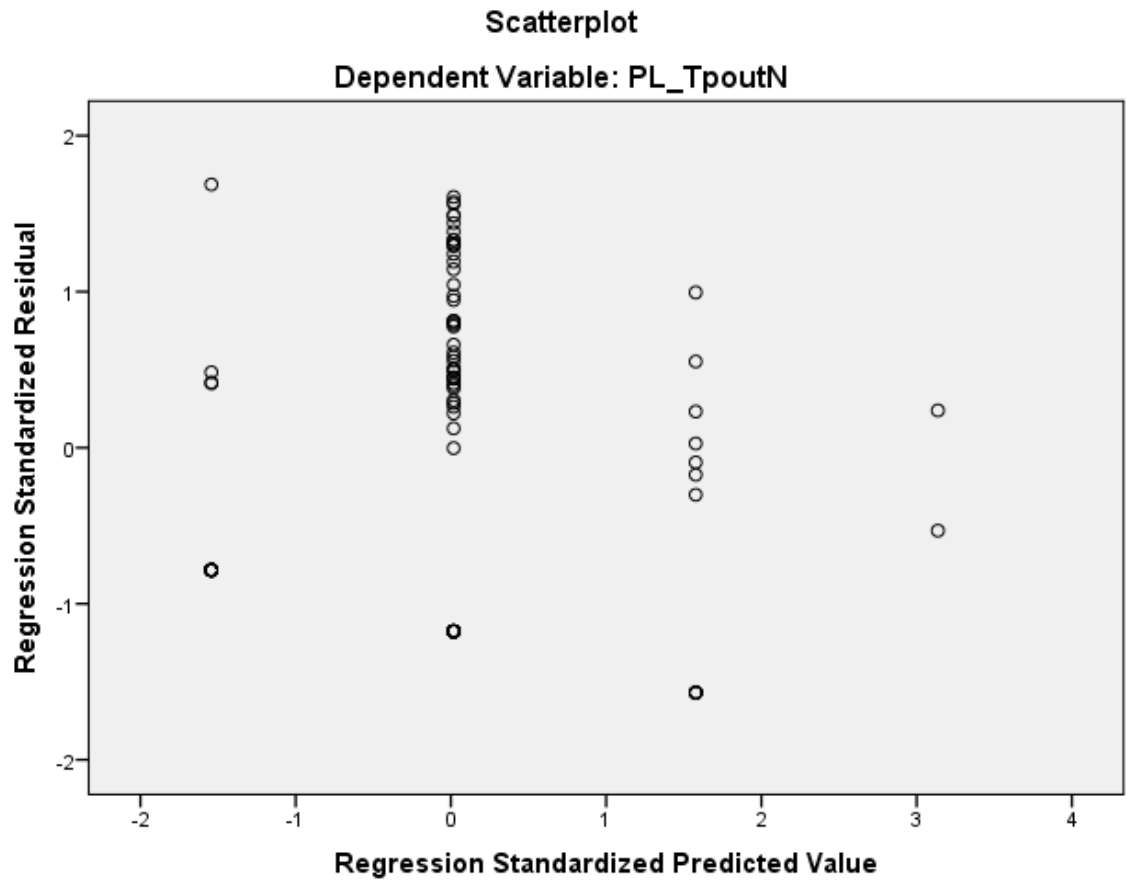
Stud. Deleted Residual	-1.615	1.739	-.002	1.008
Mahal. Distance	.000	9.840	.989	1.748
Cook's Distance	.000	.058	.010	.012
Centered Leverage Value	.000	.109	.011	.019

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TSpoutN

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TSpoutN /METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TSpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.261 ^a	.068	.058	.01058948641 4098

a. Predictors: (Constant), GD_d

b. Dependent Variable: PL_TSpoutN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.001	1	.001	6.494	.013 ^b
	Residual	.010	89	.000		
	Total	.011	90			

a. Dependent Variable: PL_TSpoutN

b. Predictors: (Constant), GD_d

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.002	.004		.595	.553
GD_d	.803	.315	.261	2.548	.013

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1 (Constant)			
GD_d		1.000	1.000

a. Dependent Variable: PL_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	.126 ^b	1.159	.250	.123	.876	1.141
	TSpaths_d	.146 ^b	1.376	.172	.145	.923	1.084
	AvgPL_d	-.036 ^b	-.254	.800	-.027	.518	1.930
	AvgGL_d	.043 ^b	.324	.747	.034	.608	1.646

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_d	.876	
	TSpaths_d	.923	
	AvgPL_d	.518	
	AvgGL_d	.608	

a. Dependent Variable: PL_TSpoutN

b. Predictors in the Model: (Constant), GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

		Index	(Constant)	GD_d
1	1	1.952	1.000	.02
	2	.048	6.396	.98

a. Dependent Variable: PL_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00660054944 4556	.01991221681 2372	.01098901098 9011	.00284463321 3705
Std. Predicted Value	-1.543	3.137	.000	1.000
Standard Error of Predicted Value	.001	.004	.001	.001
Adjusted Predicted Value	.00577389169 4844	.02263577096 1642	.01103515227 6220	.00295607381 7337
Residual	- .01991221681 2372	.02125691249 9666	.00000000000 0000	.01053049160 1787
Std. Residual	-1.880	2.007	.000	.994
Stud. Residual	-2.005	2.046	-.002	1.006
Deleted Residual	- .02263577096 1642	.02208356931 8056	- .00004614128 7209	.01078481188 4936
Stud. Deleted Residual	-2.040	2.084	-.001	1.011
Mahal. Distance	.000	9.840	.989	1.748

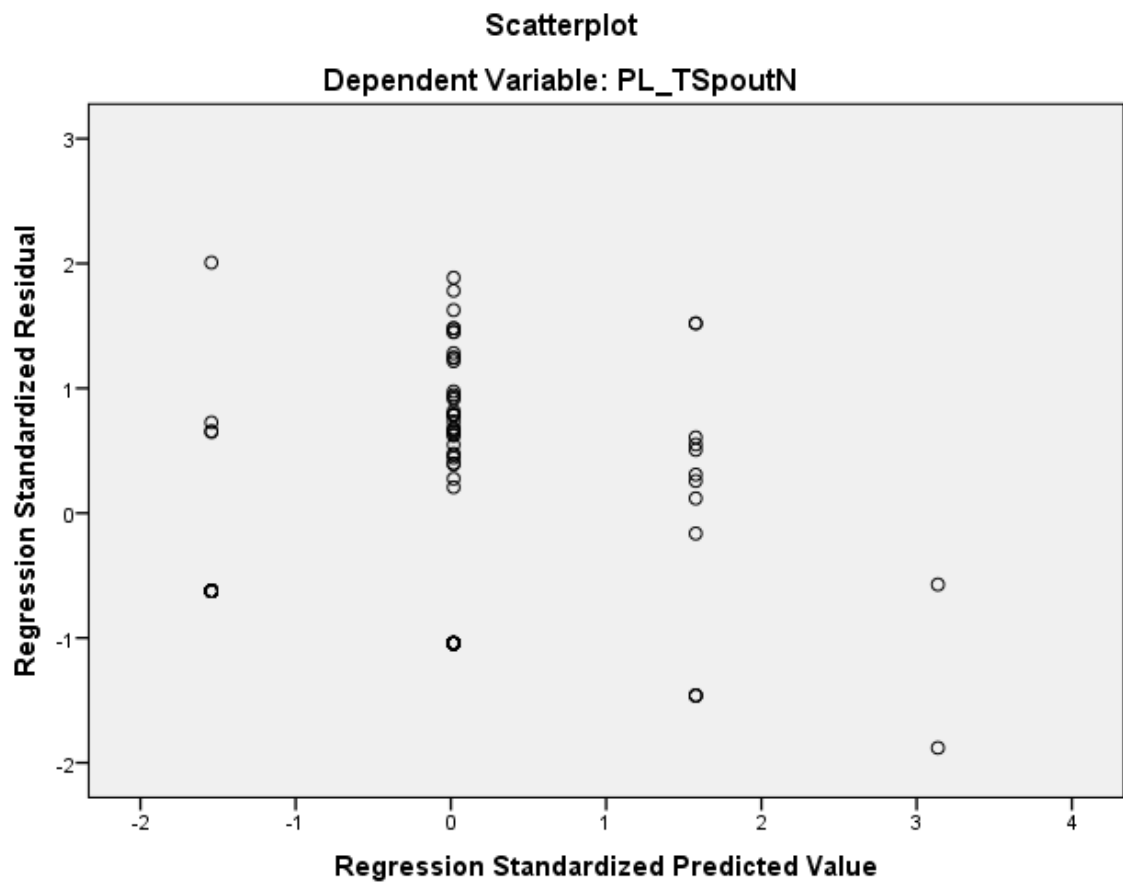
Cook's Distance	.000	.275	.012	.031
Centered Leverage Value	.000	.109	.011	.019

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_pro

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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	Weight	<none>
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	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT S_pro
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.19
	Memory Required	6000 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
-------	-------------------	-------------------	--------

1			Stepwise (Criteria: Probability-of- F-to-enter <=
	AvgGL_d		.050, Probability-of- F-to-remove >= .100).
2			Stepwise (Criteria: Probability-of- F-to-enter <=
	AvgPL_d		.050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_pro

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.616 ^a	.380	.373	.01605624587 0202
2	.658 ^b	.433	.420	.01544022163 3686

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, AvgPL_d

c. Dependent Variable: S_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.014	1	.014	54.518	.000 ^b
	Residual	.023	89	.000		
	Total	.037	90			
2	Regression	.016	2	.008	33.599	.000 ^c
	Residual	.021	88	.000		
	Total	.037	90			

a. Dependent Variable: S_pro

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, AvgPL_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.080	.012		-6.428	.000

	AvgGL_d	8.248	1.117	.616	7.384	.000
2	(Constant)	-.093	.013		-7.269	.000
	AvgGL_d	14.315	2.370	1.070	6.039	.000
	AvgPL_d	-4.884	1.701	-.509	-2.871	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.205	4.869
	AvgPL_d	.205	4.869

a. Dependent Variable: S_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	-.057 ^b	-.533	.595	-.057	.608	1.646
	Tpaths_d	-.258 ^b	-2.543	.013	-.262	.640	1.562
	TSpaths_d	-.209 ^b	-2.089	.040	-.217	.671	1.489

	AvgPL_d	-.509 ^b	-2.871	.005	-.293	.205	4.869
2	GD_d	.066 ^c	.590	.556	.063	.518	1.931
	Tpaths_d	-.172 ^c	-1.601	.113	-.169	.546	1.832
	TSpaths_d	-.160 ^c	-1.613	.110	-.170	.646	1.549

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.608
	Tpaths_d	.640
	TSpaths_d	.671
	AvgPL_d	.205
2	GD_d	.175
	Tpaths_d	.175
	TSpaths_d	.197

a. Dependent Variable: S_pro

b. Predictors in the Model: (Constant), AvgGL_d

c. Predictors in the Model: (Constant), AvgGL_d, AvgPL_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

			Index	(Constant)	AvgGL_d	AvgPL_d
1	1	1.991	1.000	.00	.00	
	2	.009	14.655	1.00	1.00	
2	1	2.979	1.000	.00	.00	.00
	2	.018	12.746	.52	.00	.15
	3	.002	34.917	.47	.99	.85

a. Dependent Variable: S_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00060853519 2441	.08773630857 4677	.01098901098 9011	.01334170218 0199
Std. Predicted Value	-.869	5.752	.000	1.000
Standard Error of Predicted Value	.002	.013	.002	.002
Adjusted Predicted Value	- .00189668266 1027	.09688001126 0509	.01120318697 5819	.01394396149 1938
Residual	- .04910053312 7785	.07844858616 5905	.00000000000 0000	.01526769977 6022
Std. Residual	-3.180	5.081	.000	.989
Stud. Residual	-3.388	5.352	-.005	1.031

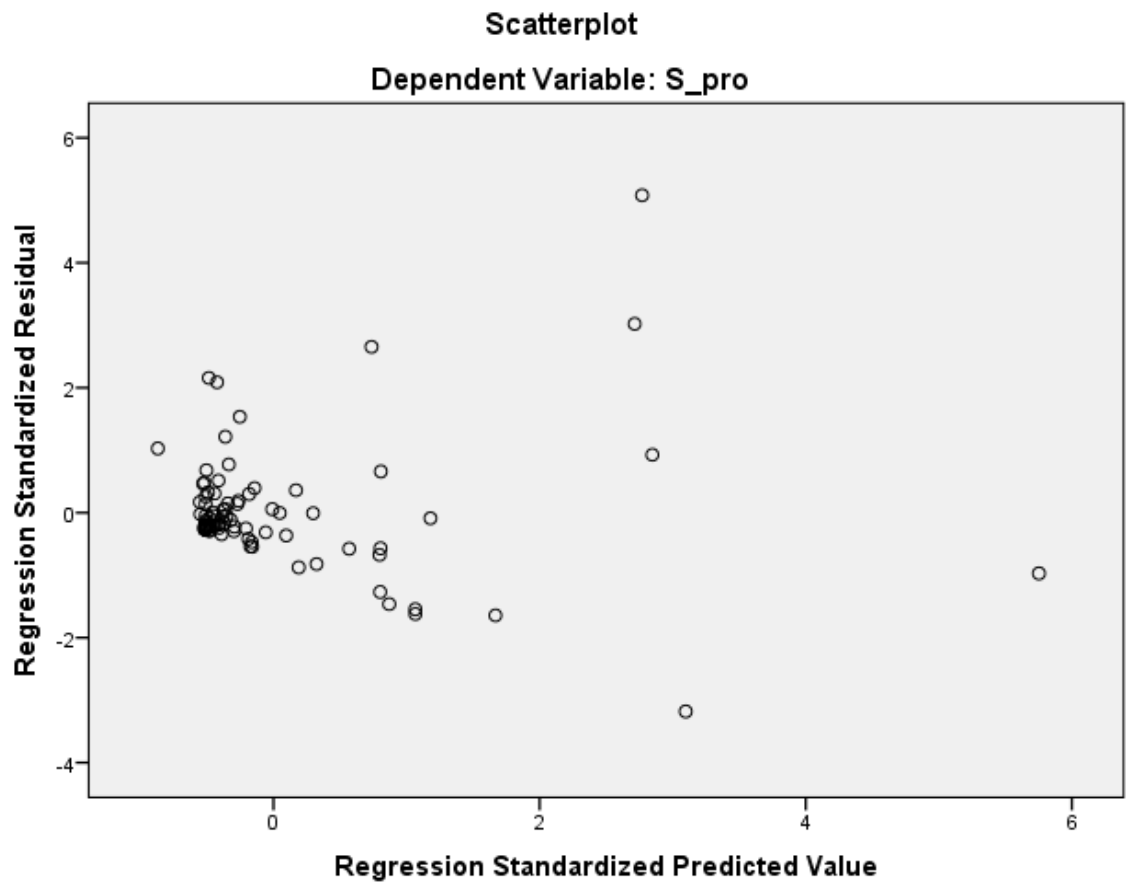
Deleted Residual	- .05572251975 5363	.08704087138 1760	- .00021417598 6808	.01669508990 7444
Stud. Deleted Residual	-3.612	6.479	.009	1.120
Mahal. Distance	.013	60.174	1.978	7.434
Cook's Distance	.000	1.046	.035	.136
Centered Leverage Value	.000	.669	.022	.083

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: S_pro

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_pro

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created	28-MAY-2015 15:02:35	
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT R_pro /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.18
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_pro

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.615 ^a	.378	.371	.00143615429 5131
2	.646 ^b	.418	.404	.00139801764 5936

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, Tpaths_d

c. Dependent Variable: R_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	54.193	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	31.556	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: R_pro

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.003	.001		2.622	.010
	AvgGL_d	.736	.100	.615	7.362	.000
2	(Constant)	.007	.002		3.472	.001
	AvgGL_d	.913	.122	.764	7.511	.000
	Tpaths_d	-.576	.237	-.247	-2.433	.017

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.640	1.562
	Tpaths_d	.640	1.562

a. Dependent Variable: R_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.176 ^b	1.662	.100	.175	.608	1.646

	Tpaths_d	-.247 ^b	-2.433	.017	-.251	.640	1.562
	TSpaths_d	-.233 ^b	-2.339	.022	-.242	.671	1.489
	AvgPL_d	-.242 ^b	-1.316	.192	-.139	.205	4.869
2	GD_d	.167 ^c	1.612	.111	.170	.607	1.648
	TSpaths_d	.105 ^c	.207	.836	.022	.026	38.317
	AvgPL_d	-.087 ^c	-.445	.658	-.048	.175	5.710

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.608
	Tpaths_d	.640
	TSpaths_d	.671
	AvgPL_d	.205
2	GD_d	.443
	TSpaths_d	.025
	AvgPL_d	.175

a. Dependent Variable: R_pro

b. Predictors in the Model: (Constant), AvgGL_d

c. Predictors in the Model: (Constant), AvgGL_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	Tpaths_d
1	1	1.991	1.000	.00	.00	
	2	.009	14.655	1.00	1.00	
2	1	2.988	1.000	.00	.00	.00
	2	.010	17.430	.16	.75	.02
	3	.002	38.807	.84	.25	.98

a. Dependent Variable: R_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00906164385 3784	.01770077086 9851	.01098901098 9011	.00117070586 1125
Std. Predicted Value	-1.646	5.733	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00951192807 4062	.01950948126 6141	.01102105152 8066	.00129340309 9308
Residual	- .00328813539 8179	.00369774200 9535	.00000000000 0000	.00138239684 6763
Std. Residual	-2.352	2.645	.000	.989

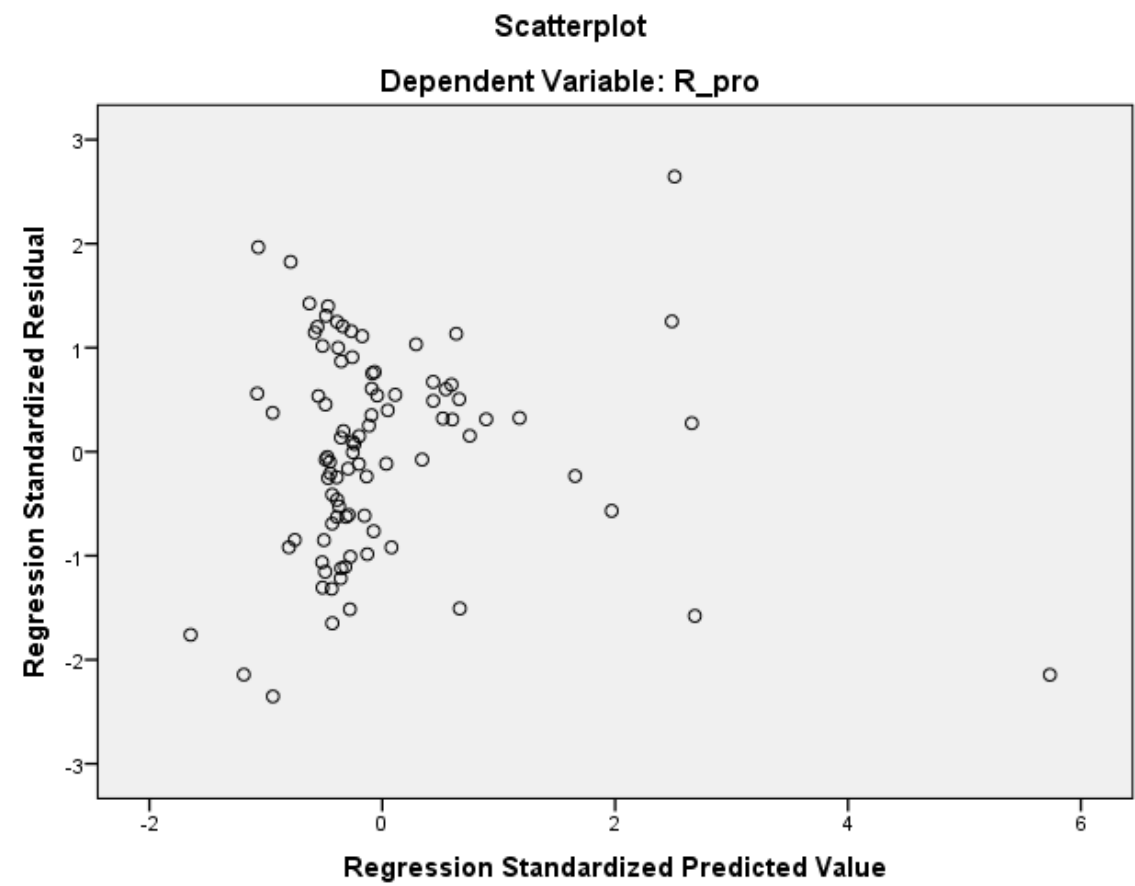
Stud. Residual	-2.715	2.759	-.010	1.029
Deleted Residual	-	-	-	-
	.00480619166	.00402457173	.00003204053	.00150837154
	0464	9137	9055	5012
Stud. Deleted Residual	-2.820	2.871	-.012	1.042
Mahal. Distance	.016	32.881	1.978	4.733
Cook's Distance	.000	1.483	.035	.165
Centered Leverage Value	.000	.365	.022	.053

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: R_pro

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT SMSP_d

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 15:02:51
Comments		
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	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT SMSP_d /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_pro

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:03:36
Comments		
Input	Active Dataset	DataSet9
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_pro /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.13

	Elapsed Time	00:00:00.18
	Memory Required	6112 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_pro

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.481 ^a	.231	.223	.013130248517655
2	.532 ^b	.283	.266	.012754067691960

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, Tpaths_d

c. Dependent Variable: S_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.005	1	.005	26.194	.000 ^b
	Residual	.015	87	.000		
	Total	.020	88			
2	Regression	.006	2	.003	16.985	.000 ^c
	Residual	.014	86	.000		
	Total	.020	88			

a. Dependent Variable: S_pro

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, Tpaths_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.057	.013		-4.389	.000
	AvgGL_d	6.036	1.179	.481	5.118	.000
2	(Constant)	-.019	.019		-1.000	.320
	AvgGL_d	8.264	1.453	.659	5.687	.000
	Tpaths_d	-5.587	2.242	-.289	-2.492	.015

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.622	1.609
	Tpaths_d	.622	1.609

a. Dependent Variable: S_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.101 ^b	.866	.389	.093	.647	1.545
	Tpaths_d	-.289 ^b	-2.492	.015	-.259	.622	1.609
	TSpaths_d	-.243 ^b	-2.174	.032	-.228	.675	1.481
	AvgPL_d	-.435 ^b	-2.275	.025	-.238	.231	4.332
2	GD_d	.079 ^c	.689	.493	.074	.643	1.555
	TSpaths_d	.746 ^c	1.307	.195	.140	.025	39.339
	AvgPL_d	-.313 ^c	-1.570	.120	-.168	.206	4.853

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_d	.647	
	Tpaths_d	.622	
	TSpaths_d	.675	
	AvgPL_d	.231	
2	GD_d	.443	

TSpaths_d	.023
AvgPL_d	.206

a. Dependent Variable: S_pro

b. Predictors in the Model: (Constant), AvgGL_d

c. Predictors in the Model: (Constant), AvgGL_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	Tpaths_d
1	1	1.994	1.000	.00	.00	
	2	.006	18.452	1.00	1.00	
2	1	2.992	1.000	.00	.00	.00
	2	.006	22.362	.31	.72	.01
	3	.002	39.045	.69	.28	.99

a. Dependent Variable: S_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
--	---------	---------	------	----------------

Predicted Value	- .00819827057 4212	.03795269131 6605	.00899848502 9611	.00792413763 0965
Std. Predicted Value	-2.170	3.654	.000	1.000
Standard Error of Predicted Value	.001	.007	.002	.001
Adjusted Predicted Value	- .00992248579 8597	.04513179138 3028	.00904591043 7413	.00813531150 4572
Residual	- .03473251312 9711	.05779028683 9008	.00000000000 0000	.01260830213 1133
Std. Residual	-2.723	4.531	.000	.989
Stud. Residual	-2.991	4.898	-.002	1.037
Deleted Residual	- .04191161319 6135	.06753035634 7561	- .00004742540 7801	.01391798272 3155
Stud. Deleted Residual	-3.142	5.735	.011	1.107
Mahal. Distance	.012	26.510	1.978	4.033
Cook's Distance	.000	1.348	.038	.165
Centered Leverage Value	.000	.301	.022	.046

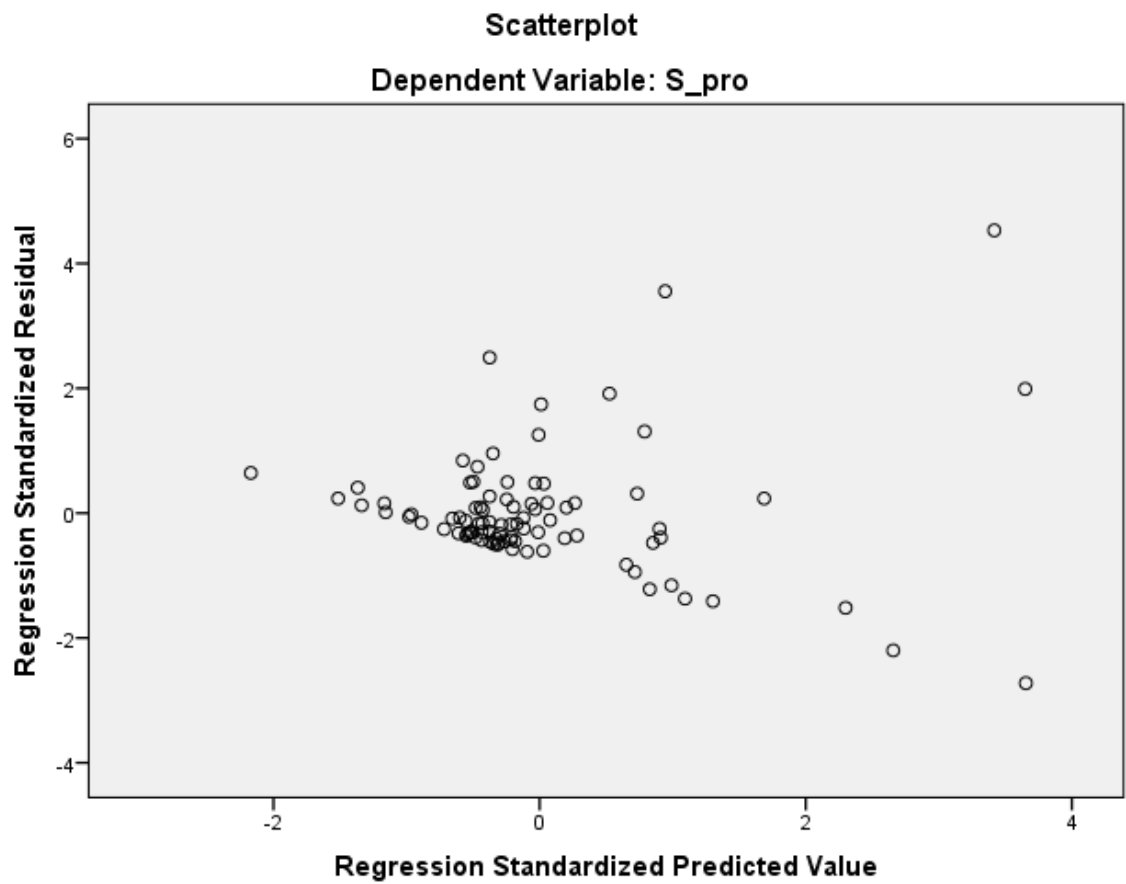
Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89

Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89
Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: S_pro

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_pro

/METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:03:58
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT R_pro
		/METHOD=STEPWISE GD_d
		Tpaths_d TSpaths_d AvgPL_d
		AvgGL_d
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	6160 bytes
	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_7	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_pro

Model Summary^d

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

1	.559 ^a	.312	.304	.00136671616 8920
2	.611 ^b	.373	.359	.00131225601 6853
3	.638 ^c	.407	.386	.00128377481 7505

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, Tpaths_d

c. Predictors: (Constant), AvgGL_d, Tpaths_d, GD_d

d. Dependent Variable: R_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	39.501	.000 ^b
	Residual	.000	87	.000		
	Total	.000	88			
2	Regression	.000	2	.000	25.610	.000 ^c
	Residual	.000	86	.000		
	Total	.000	88			
3	Regression	.000	3	.000	19.458	.000 ^d
	Residual	.000	85	.000		

Total	.000	88			
-------	------	----	--	--	--

a. Dependent Variable: R_pro

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, Tpaths_d

d. Predictors: (Constant), AvgGL_d, Tpaths_d, GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.002	.001		1.863	.066
	AvgGL_d	.772	.123	.559	6.285	.000
2	(Constant)	.007	.002		3.463	.001
	AvgGL_d	1.038	.150	.752	6.941	.000
	Tpaths_d	-.668	.231	-.313	-2.893	.005
3	(Constant)	.007	.002		3.795	.000
	AvgGL_d	.833	.173	.603	4.809	.000
	Tpaths_d	-.627	.226	-.294	-2.767	.007
	GD_d	.111	.051	.230	2.204	.030

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.622	1.609
	Tpaths_d	.622	1.609
3	(Constant)		
	AvgGL_d	.443	2.257
	Tpaths_d	.617	1.620
	GD_d	.643	1.555

a. Dependent Variable: R_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.253 ^b	2.350	.021	.246	.647	1.545
	Tpaths_d	-.313 ^b	-2.893	.005	-.298	.622	1.609
	TSpaths_d	-.289 ^b	-2.774	.007	-.287	.675	1.481
	AvgPL_d	-.264 ^b	-1.435	.155	-.153	.231	4.332

2	GD_d	.230 ^c	2.204	.030	.233	.643	1.555
	TSpaths_d	.151 ^c	.281	.780	.030	.025	39.339
	AvgPL_d	-.107 ^c	-.567	.572	-.061	.206	4.853
3	TSpaths_d	.779 ^d	1.354	.179	.146	.021	47.918
	AvgPL_d	-.325 ^d	-1.629	.107	-.175	.172	5.806

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.647
	Tpaths_d	.622
	TSpaths_d	.675
	AvgPL_d	.231
2	GD_d	.443
	TSpaths_d	.023
	AvgPL_d	.206
3	TSpaths_d	.020
	AvgPL_d	.172

a. Dependent Variable: R_pro

b. Predictors in the Model: (Constant), AvgGL_d

c. Predictors in the Model: (Constant), AvgGL_d, Tpaths_d

d. Predictors in the Model: (Constant), AvgGL_d, Tpaths_d, GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	Tpaths_d
1	1	1.994	1.000	.00	.00	
	2	.006	18.452	1.00	1.00	
2	1	2.992	1.000	.00	.00	.00
	2	.006	22.362	.31	.72	.01
	3	.002	39.045	.69	.28	.99
3	1	3.936	1.000	.00	.00	.00
	2	.057	8.275	.01	.00	.01
	3	.004	29.593	.38	.71	.00
	4	.002	45.062	.61	.29	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		GD_d
1	1	
	2	
2	1	
	2	

	3	
3	1	.00
	2	.72
	3	.26
	4	.02

a. Dependent Variable: R_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00842024572 1936	.01434807945 0428	.01087270568 8675	.00104559070 1897
Std. Predicted Value	-2.346	3.324	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00884680449 9626	.01486724335 7003	.01089344800 8821	.00107153956 8207
Residual	- .00271970033 6456	.00332924351 0962	.00000000000 0000	.00126170254 5062
Std. Residual	-2.119	2.593	.000	.983
Stud. Residual	-2.184	2.693	-.007	1.019
Deleted Residual	- .00328905461 3560	.00358996982 6862	- .00002074232 0146	.00136148574 8178

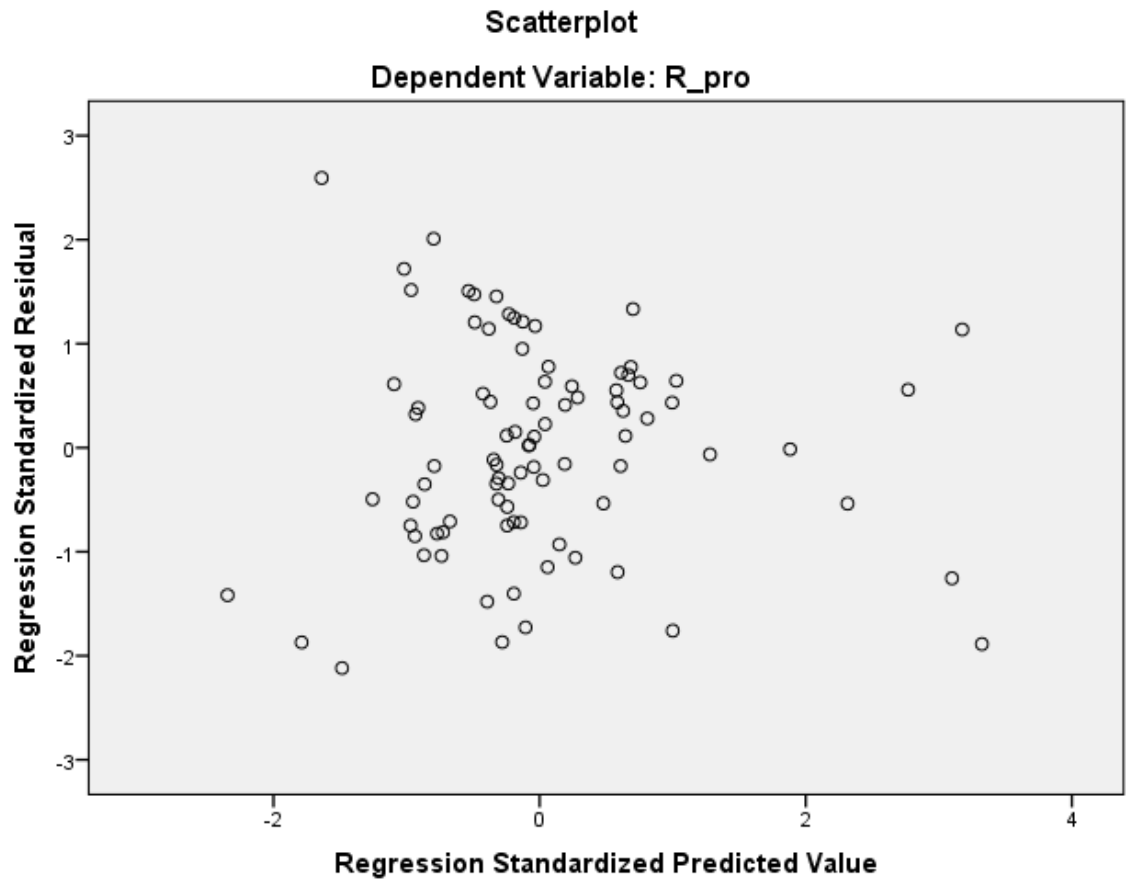
Stud. Deleted Residual	-2.234	2.799	-.008	1.030
Mahal. Distance	.086	26.596	2.966	4.383
Cook's Distance	.000	.514	.021	.064
Centered Leverage Value	.001	.302	.034	.050

Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89
Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89
Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: R_pro

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_pro

/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 15:04:43	
Comments		
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	88
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

		Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax			REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_pro /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.19
	Elapsed Time		00:00:00.18
	Memory Required		6192 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_8		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgGL_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2			Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_pro

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.368 ^a	.135	.125	.01109041968 9854
2	.419 ^b	.175	.156	.01089344006 1549

a. Predictors: (Constant), AvgGL_d

b. Predictors: (Constant), AvgGL_d, Tpaths_d

c. Dependent Variable: S_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.002	1	.002	13.444	.000 ^b
	Residual	.011	86	.000		
	Total	.012	87			
2	Regression	.002	2	.001	9.036	.000 ^c
	Residual	.010	85	.000		
	Total	.012	87			

a. Dependent Variable: S_pro

b. Predictors: (Constant), AvgGL_d

c. Predictors: (Constant), AvgGL_d, Tpaths_d

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	-.034	.012		-2.949	.004
	AvgGL_d	3.883	1.059	.368	3.667	.000
2	(Constant)	-.009	.017		-.534	.595
	AvgGL_d	5.561	1.328	.527	4.189	.000
	Tpaths_d	-3.940	1.937	-.256	-2.034	.045

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_d	1.000	1.000
2	(Constant)		
	AvgGL_d	.614	1.629
	Tpaths_d	.614	1.629

a. Dependent Variable: S_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_d	.146 ^b	1.190	.238	.128	.669	1.495

	Tpaths_d	-.256 ^b	-2.034	.045	-.215	.614	1.629
	TSpaths_d	-.235 ^b	-1.964	.053	-.208	.678	1.476
	AvgPL_d	-.255 ^b	-1.210	.230	-.130	.225	4.443
2	GD_d	.125 ^c	1.036	.303	.112	.664	1.507
	TSpaths_d	.102 ^c	.160	.873	.017	.024	41.149
	AvgPL_d	-.140 ^c	-.639	.525	-.070	.204	4.895

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_d	.669
	Tpaths_d	.614
	TSpaths_d	.678
	AvgPL_d	.225
2	GD_d	.448
	TSpaths_d	.022
	AvgPL_d	.204

a. Dependent Variable: S_pro

b. Predictors in the Model: (Constant), AvgGL_d

c. Predictors in the Model: (Constant), AvgGL_d, Tpaths_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	AvgGL_d	Tpaths_d
1	1	1.995	1.000	.00	.00	
	2	.005	19.422	1.00	1.00	
2	1	2.993	1.000	.00	.00	.00
	2	.005	23.637	.37	.69	.01
	3	.002	39.067	.63	.30	.99

a. Dependent Variable: S_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00368534354 4930	.02758095040 9174	.00803412793 2291	.00496499416 9729
Std. Predicted Value	-2.360	3.937	.000	1.000
Standard Error of Predicted Value	.001	.006	.002	.001
Adjusted Predicted Value	- .00448877736 9261	.03354124352 3359	.00811413015 2113	.00525535665 3883
Residual	- .02427818067 3718	.04866174235 9400	.00000000000 0000	.01076750010 5728

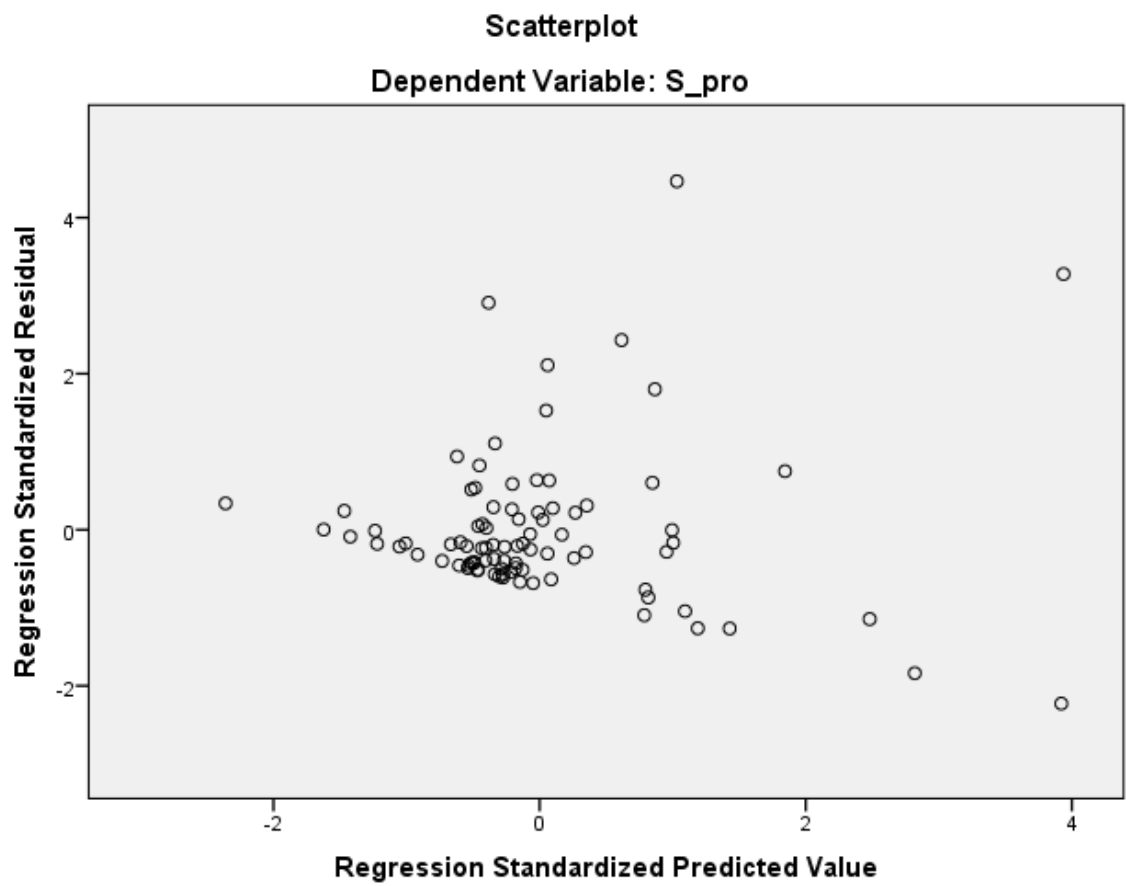
Std. Residual	-2.229	4.467	.000	.988
Stud. Residual	-2.491	4.533	-.003	1.027
Deleted Residual	-	.05010647326	-	.01166173738
	.03032106533	7078	.00008000221	5257
	6466		9821	
Stud. Deleted Residual	-2.572	5.175	.010	1.084
Mahal. Distance	.017	26.488	1.977	4.145
Cook's Distance	.000	1.036	.030	.129
Centered Leverage Value	.000	.304	.023	.048

Residuals Statistics^a

	N
Predicted Value	88
Std. Predicted Value	88
Standard Error of Predicted Value	88
Adjusted Predicted Value	88
Residual	88
Std. Residual	88
Stud. Residual	88
Deleted Residual	88
Stud. Deleted Residual	88
Mahal. Distance	88
Cook's Distance	88
Centered Leverage Value	88

a. Dependent Variable: S_pro

Charts



REGRESSION

```

/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT S_pro
/METHOD=STEPWISE GD_d Tpaths_d TSpaths_d AvgPL_d AvgGL_d
/SCATTERPLOT=(*ZRESID ,*ZPRED)
/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 15:05:15
Comments		
Input	Active Dataset	DataSet9
	Filter	<none>
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	Split File	<none>

	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_pro /METHOD=STEPWISE GD_d Tpaths_d TSpats_d AvgPL_d AvgGL_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.17
	Memory Required	6240 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_d		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_pro

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.353 ^a	.124	.114	.00970547432 2780

a. Predictors: (Constant), GD_d

b. Dependent Variable: S_pro

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	12.070	.001 ^b
	Residual	.008	85	.000		
	Total	.009	86			

a. Dependent Variable: S_pro

b. Predictors: (Constant), GD_d

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.004	.004		-1.217	.227
	GD_d	1.082	.311	.353	3.474	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_d	1.000	1.000

a. Dependent Variable: S_pro

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_d	-.084 ^b	-.787	.434	-.086	.908	1.101
	TSpaths_d	-.085 ^b	-.819	.415	-.089	.954	1.049
	AvgPL_d	-.065 ^b	-.482	.631	-.053	.567	1.763
	AvgGL_d	.003 ^b	.024	.981	.003	.616	1.622

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_d	.908	
	TSpaths_d	.954	
	AvgPL_d	.567	
	AvgGL_d	.616	

a. Dependent Variable: S_pro

b. Predictors in the Model: (Constant), GD_d

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	GD_d
1	1	1.955	1.000	.02	.02
	2	.045	6.614	.98	.98

a. Dependent Variable: S_pro

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00169607787 3930	.01962955482 3041	.00739906105 0700	.00363594617 1708
Std. Predicted Value	-1.569	3.364	.000	1.000
Standard Error of Predicted Value	.001	.004	.001	.001
Adjusted Predicted Value	.00150422577 2806	.02257231809 1989	.00742833569 7071	.00374014017 4551
Residual	- .01762685179 7104	.05414106324 3151	.00000000000 0000	.00964888215 3330
Std. Residual	-1.816	5.578	.000	.994
Stud. Residual	-1.962	5.611	-.001	1.007
Deleted Residual	- .02056961506 6051	.05477429181 3374	- .00002927464 6371	.00989981303 7267

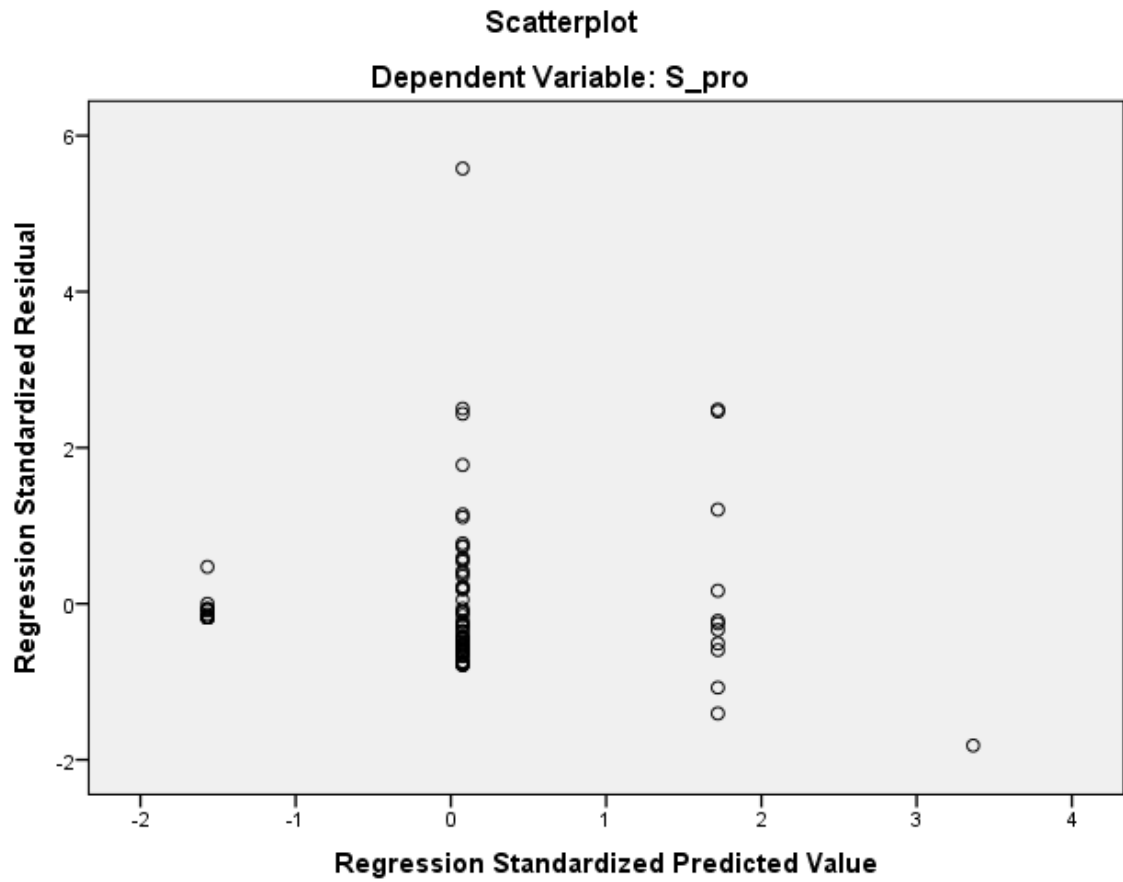
Stud. Deleted Residual	-1.996	7.030	.019	1.115
Mahal. Distance	.006	11.315	.989	1.678
Cook's Distance	.000	.321	.013	.045
Centered Leverage Value	.000	.132	.011	.020

Residuals Statistics^a

	N
Predicted Value	87
Std. Predicted Value	87
Standard Error of Predicted Value	87
Adjusted Predicted Value	87
Residual	87
Std. Residual	87
Stud. Residual	87
Deleted Residual	87
Stud. Deleted Residual	87
Mahal. Distance	87
Cook's Distance	87
Centered Leverage Value	87

a. Dependent Variable: S_pro

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

```

/DEPENDENT GD_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes		
Output Created	28-MAY-2015 14:57:54	
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.	
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT GD_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.19
	Elapsed Time		00:00:00.20
	Memory Required	5920 bytes	
	Additional Memory Required for Residual Plots	0 bytes	
Variables Created or Modified	COO_1	Cook's Distance	

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: GD_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.493 ^a	.243	.234	.00309959891 3696

a. Predictors: (Constant), R_pro

b. Dependent Variable: GD_d

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.000	1	.000	28.518	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			

a. Dependent Variable: GD_d

b. Predictors: (Constant), R_pro

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.000	.002		.202	.841
	R_pro	.963	.180	.493	5.340	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000

a. Dependent Variable: GD_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.069 ^b	.687	.494	.073	.857	1.167
	PL_TSpoutN	.020 ^b	.188	.852	.020	.751	1.331
	S_pro	.064 ^b	.534	.595	.057	.596	1.678
	SMSP_d	.128 ^b	1.394	.167	.147	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.857	
	PL_TSpoutN	.751	
	S_pro	.596	
	SMSP_d	.995	

a. Dependent Variable: GD_d

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

		Index	(Constant)	R_pro
1	1	1.987	1.000	.01
	2	.013	12.281	.99

a. Dependent Variable: GD_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00676250318 0653	.01738146878 7789	.01098901098 9011	.00174479393 9312
Std. Predicted Value	-2.422	3.664	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00686457147 8218	.01858870685 1006	.01100183916 1782	.00178127580 3398
Residual	- .00690962513 9087	.00965444929 8978	.00000000000 0000	.00308233081 8814
Std. Residual	-2.229	3.115	.000	.994
Stud. Residual	-2.250	3.144	-.002	1.009
Deleted Residual	- .00753898313 2690	.00983869004 9946	- .00001282817 2771	.00317712137 3493
Stud. Deleted Residual	-2.304	3.316	.001	1.026
Mahal. Distance	.000	13.423	.989	1.871

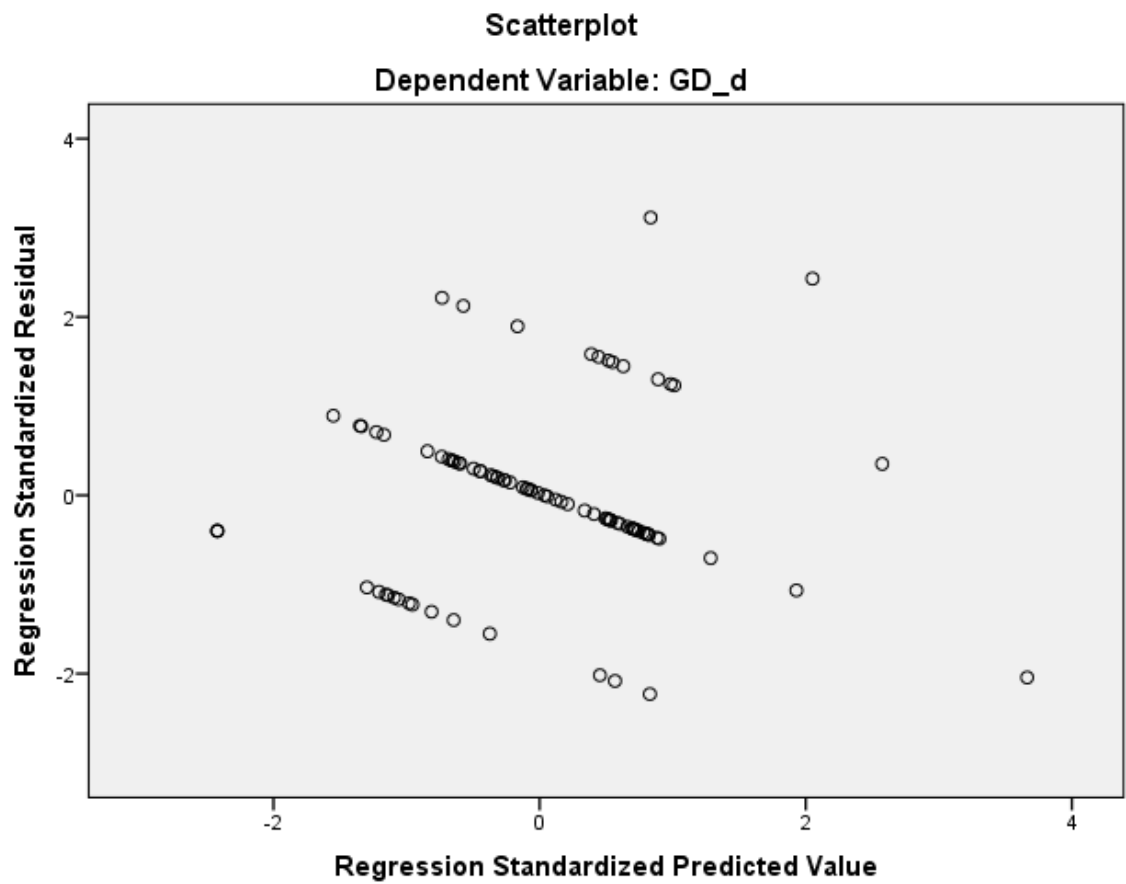
Cook's Distance	.000	.474	.016	.054
Centered Leverage Value	.000	.149	.011	.021

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: GD_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Tpaths_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:58:11
Comments		
Input	Active Dataset	DataSet8
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Tpaths_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
---	-------	--	---

a. Dependent Variable: Tpaths_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.211 ^a	.044	.034	.000765092460294

a. Predictors: (Constant), R_pro

b. Dependent Variable: Tpaths_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.132	.045 ^b
	Residual	.000	89	.000		

Total	.000	90			
-------	------	----	--	--	--

a. Dependent Variable: Tpaths_d

b. Predictors: (Constant), R_pro

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.010	.000		20.160	.000
R_pro	.090	.045	.211	2.033	.045

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
R_pro	1.000	1.000

a. Dependent Variable: Tpaths_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	-.043 ^b	-.382	.703	-.041	.857	1.167
	PL_TSpoutN	.130 ^b	1.086	.281	.115	.751	1.331
	S_pro	.119 ^b	.886	.378	.094	.596	1.678
	SMSP_d	.017 ^b	.161	.872	.017	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.857	
	PL_TSpoutN	.751	
	S_pro	.596	
	SMSP_d	.995	

a. Dependent Variable: Tpaths_d

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro

1	1	1.987	1.000	.01	.01
	2	.013	12.281	.99	.99

a. Dependent Variable: Tpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01059190183 8779	.01158962585 0320	.01098901098 9011	.00016393517 6231
Std. Predicted Value	-2.422	3.664	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01039958652 1089	.01156456209 7192	.01098438363 7565	.00017111466 0268
Residual	- .00154499046 0388	.00404917867 8542	.00000000000 0000	.00076083007 3590
Std. Residual	-2.019	5.292	.000	.994
Stud. Residual	-2.031	5.338	.003	1.008
Deleted Residual	- .00156262039 6726	.00411904463 5445	.000000462735 1446	.00078248507 1216
Stud. Deleted Residual	-2.068	6.437	.019	1.087
Mahal. Distance	.000	13.423	.989	1.871
Cook's Distance	.000	.415	.014	.053

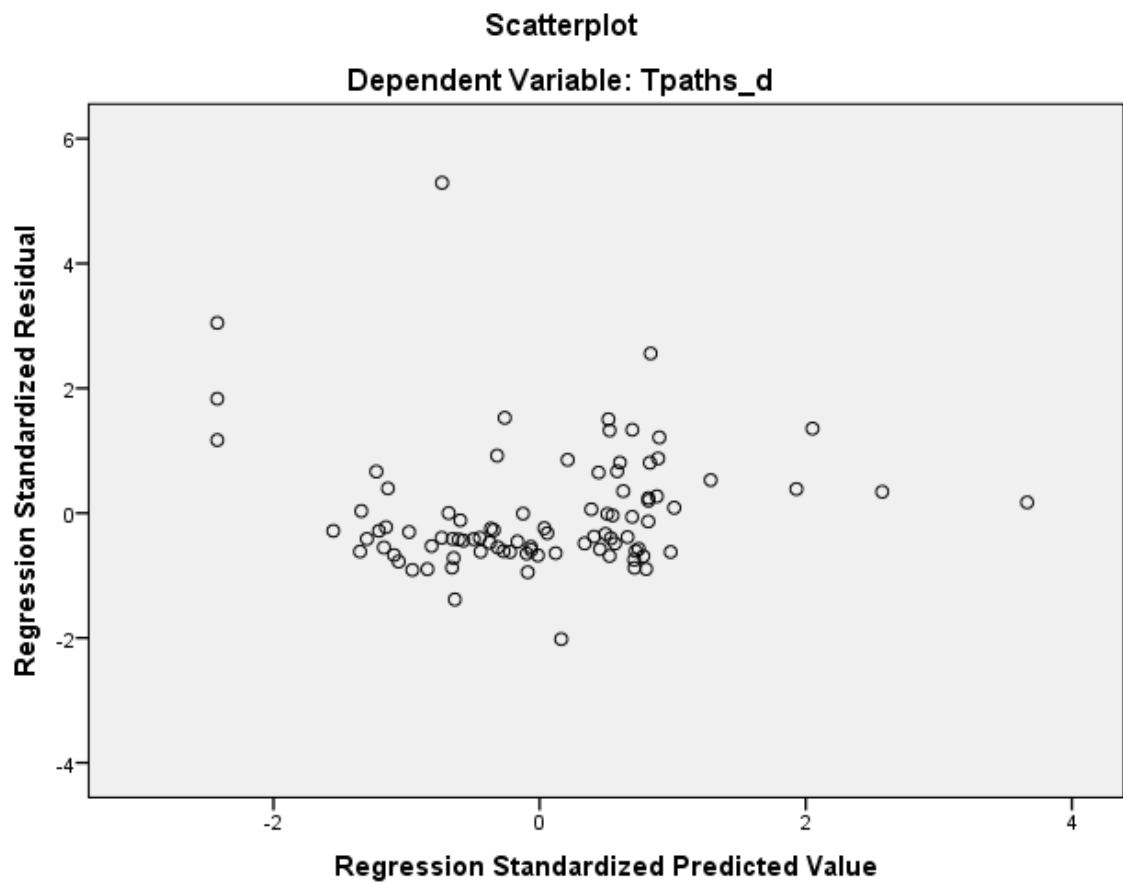
Centered Leverage Value	.000	.149	.011	.021
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: Tpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT TSpaths_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:58:34
Comments		
Input	Active Dataset	DataSet8
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT TSpaths_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.16
	Memory Required	6000 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	S_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
---	-------	--	---

a. Dependent Variable: TSpats_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.213 ^a	.045	.035	.000701184937752

a. Predictors: (Constant), S_pro

b. Dependent Variable: TSpats_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.230	.043 ^b
	Residual	.000	89	.000		

Total	.000	90			
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a. Dependent Variable: TSpats_d

b. Predictors: (Constant), S_pro

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.011	.000		130.289	.000
S_pro	.007	.004	.213	2.057	.043

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
S_pro	1.000	1.000

a. Dependent Variable: TSpats_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.003 ^b	.029	.977	.003	.976	1.025
	PL_TSpoutN	.175 ^b	1.675	.098	.176	.968	1.033
	R_pro	.102 ^b	.760	.449	.081	.596	1.678
	SMSP_d	-.008 ^b	-.073	.942	-.008	1.000	1.000

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.976	
	PL_TSpoutN	.968	
	R_pro	.596	
	SMSP_d	1.000	

a. Dependent Variable: TSpats_d

b. Predictors in the Model: (Constant), S_pro

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_pro

1	1	1.479	1.000	.26	.26
	2	.521	1.684	.74	.74

a. Dependent Variable: TSpaths_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01090661901 9806	.01185428537 4284	.01098901098 9011	.00015202013 5790
Std. Predicted Value	-.542	5.692	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01085730455 8158	.01189814880 4903	.01098765594 4261	.00015039452 1428
Residual	- .00144021224 6962	.00341581902 4667	.00000000000 0000	.00069727858 4584
Std. Residual	-2.054	4.871	.000	.994
Stud. Residual	-2.067	4.907	.001	1.002
Deleted Residual	- .00145838398 0207	.00346519192 6807	.000000135504 4750	.00070859291 8311
Stud. Deleted Residual	-2.106	5.712	.013	1.056
Mahal. Distance	.000	32.397	.989	3.973
Cook's Distance	.000	.174	.008	.022

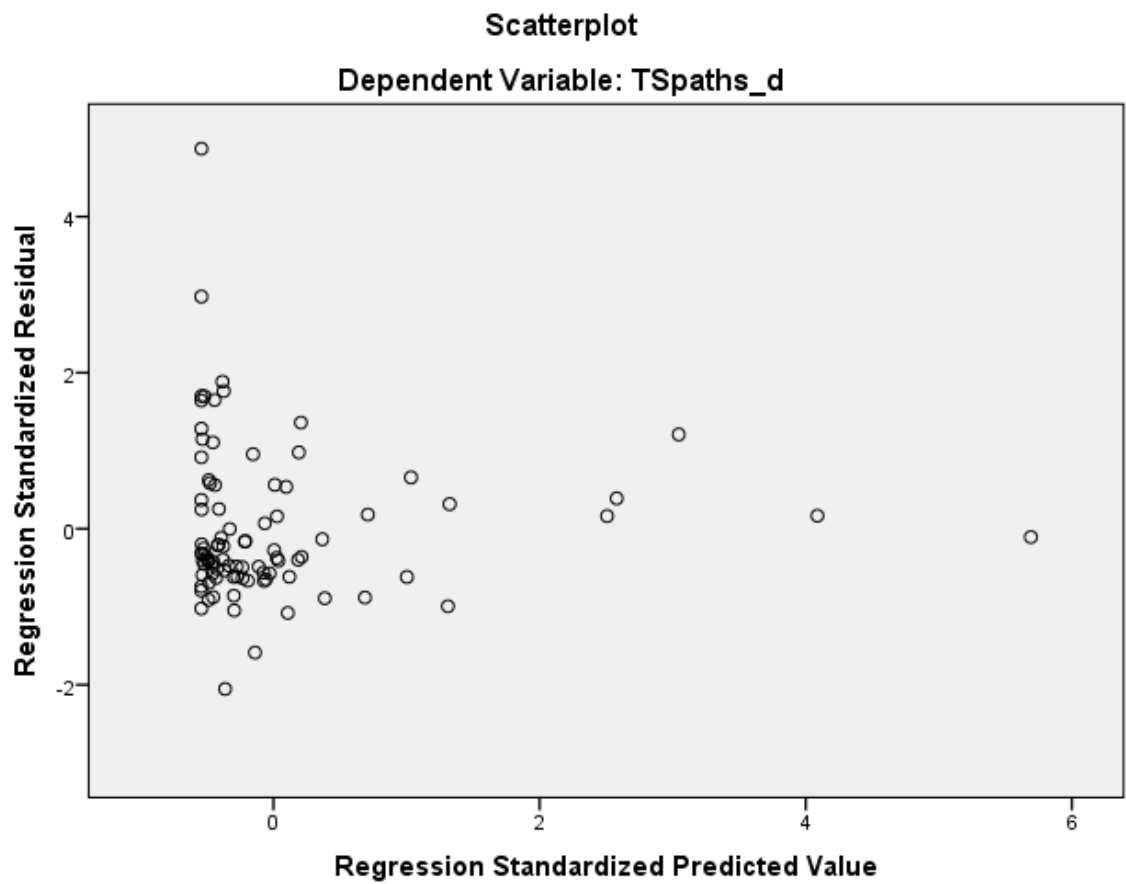
Centered Leverage Value	.000	.360	.011	.044
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: TSpaths_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgPL_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:58:51
Comments		
Input	Active Dataset	DataSet8
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgPL_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.16
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: AvgPL_d

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.499 ^a	.249	.240	.00184024195 9726

a. Predictors: (Constant), R_pro

b. Dependent Variable: AvgPL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	29.471	.000 ^b
	Residual	.000	89	.000		

Total	.000	90			
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a. Dependent Variable: AvgPL_d

b. Predictors: (Constant), R_pro

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.005	.001		3.858	.000
R_pro	.581	.107	.499	5.429	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
R_pro	1.000	1.000

a. Dependent Variable: AvgPL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	-.076 ^b	-.759	.450	-.081	.857	1.167
	PL_TSpoutN	-.115 ^b	-1.088	.280	-.115	.751	1.331
	S_pro	.215 ^b	1.828	.071	.191	.596	1.678
	SMSP_d	.089 ^b	.966	.337	.102	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.857	
	PL_TSpoutN	.751	
	S_pro	.596	
	SMSP_d	.995	

a. Dependent Variable: AvgPL_d

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro

1	1	1.987	1.000	.01	.01
	2	.013	12.281	.99	.99

a. Dependent Variable: AvgPL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00843812804 6691	.01484713982 7907	.01098901098 9011	.00105305957 7817
Std. Predicted Value	-2.422	3.664	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00832795072 3469	.01496845018 1186	.01098181531 4750	.00105789182 7832
Residual	- .00208731647 5809	.01091324817 3892	.00000000000 0000	.00182998983 5612
Std. Residual	-1.134	5.930	.000	.994
Stud. Residual	-1.145	5.987	.002	1.007
Deleted Residual	- .00212690862 8270	.01112151239 0673	.00000719567 4261	.00187591766 9611
Stud. Deleted Residual	-1.147	7.703	.031	1.164
Mahal. Distance	.000	13.423	.989	1.871
Cook's Distance	.000	.370	.013	.055

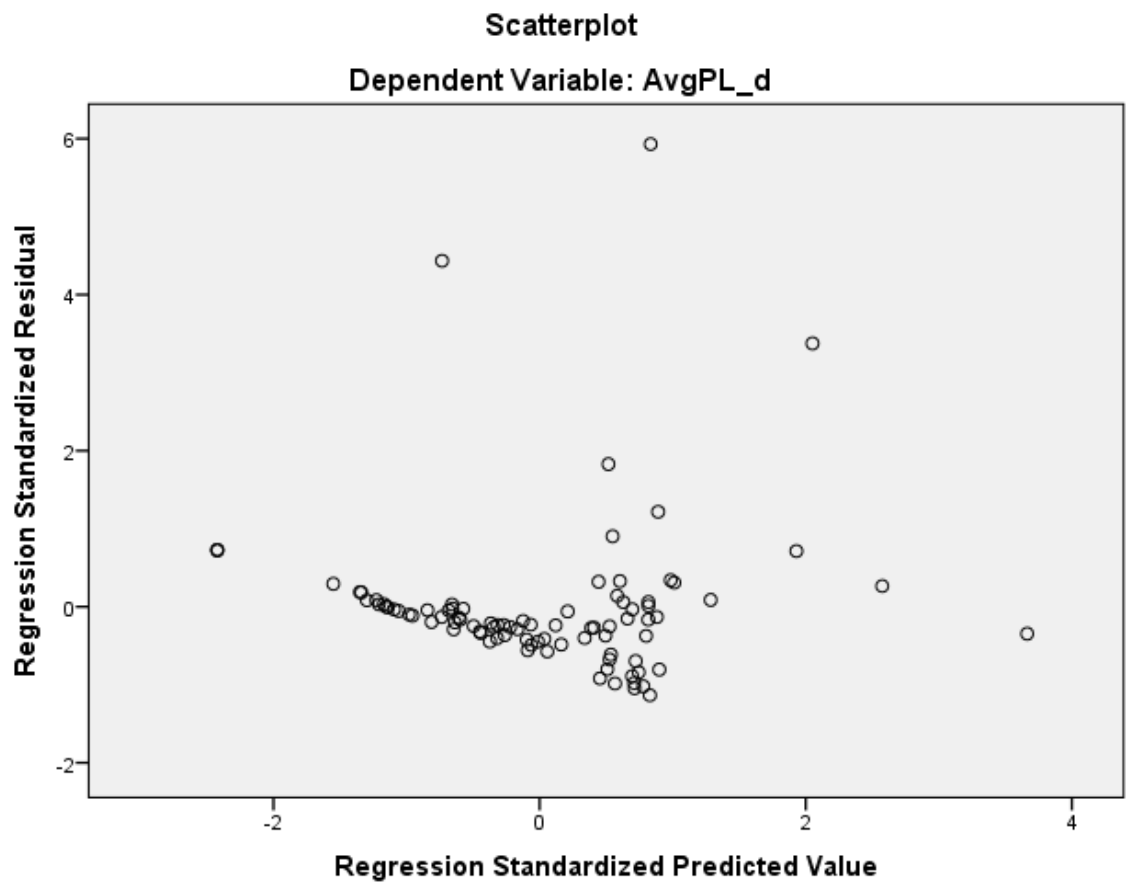
Centered Leverage Value	.000	.149	.011	.021
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgPL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgGL_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:59:06
Comments		
Input	Active Dataset	DataSet8
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgGL_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	S_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgGL_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.616 ^a	.380	.373	.00119979233 9278
2	.681 ^b	.464	.451	.00112211335 8082

a. Predictors: (Constant), S_pro

b. Predictors: (Constant), S_pro, R_pro

c. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	54.518	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	38.038	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: AvgGL_d

b. Predictors: (Constant), S_pro

c. Predictors: (Constant), S_pro, R_pro

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.010	.000		73.186	.000

	S_pro	.046	.006	.616	7.384	.000
2	(Constant)	.007	.001		8.156	.000
	S_pro	.028	.008	.378	3.739	.000
	R_pro	.314	.085	.375	3.708	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_pro	1.000	1.000
2	(Constant)		
	S_pro	.596	1.678
	R_pro	.596	1.678

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.053 ^b	.625	.534	.066	.976	1.025
	PL_TSpoutN	.082 ^b	.964	.338	.102	.968	1.033
	R_pro	.375 ^b	3.708	.000	.368	.596	1.678

	SMSP_d	.016 ^b	.190	.850	.020	1.000	1.000
2	PL_TpoutN	-.063 ^c	-.739	.462	-.079	.845	1.184
	PL_TSpoutN	-.091 ^c	-.985	.327	-.105	.719	1.391
	SMSP_d	-.009 ^c	-.117	.907	-.013	.992	1.008

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpoutN	.976
	PL_TSpoutN	.968
	R_pro	.596
	SMSP_d	1.000
2	PL_TpoutN	.516
	PL_TSpoutN	.443
	SMSP_d	.592

a. Dependent Variable: AvgGL_d

b. Predictors in the Model: (Constant), S_pro

c. Predictors in the Model: (Constant), S_pro, R_pro

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	S_pro	R_pro
1	1	1.479	1.000	.26	.26	
	2	.521	1.684	.74	.74	
2	1	2.380	1.000	.00	.04	.00
	2	.612	1.972	.00	.58	.00
	3	.008	16.973	.99	.38	1.00

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00930256024 0030	.01633042097 0917	.01098901098 9011	.00103166516 0230
Std. Predicted Value	-1.635	5.177	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00921927858 1440	.01730978302 6576	.01099022436 8899	.00107987418 2518
Residual	- .00166045443 6205	.00530787929 8925	.00000000000 0000	.00110957538 5141
Std. Residual	-1.480	4.730	.000	.989
Stud. Residual	-1.866	5.026	.000	1.023

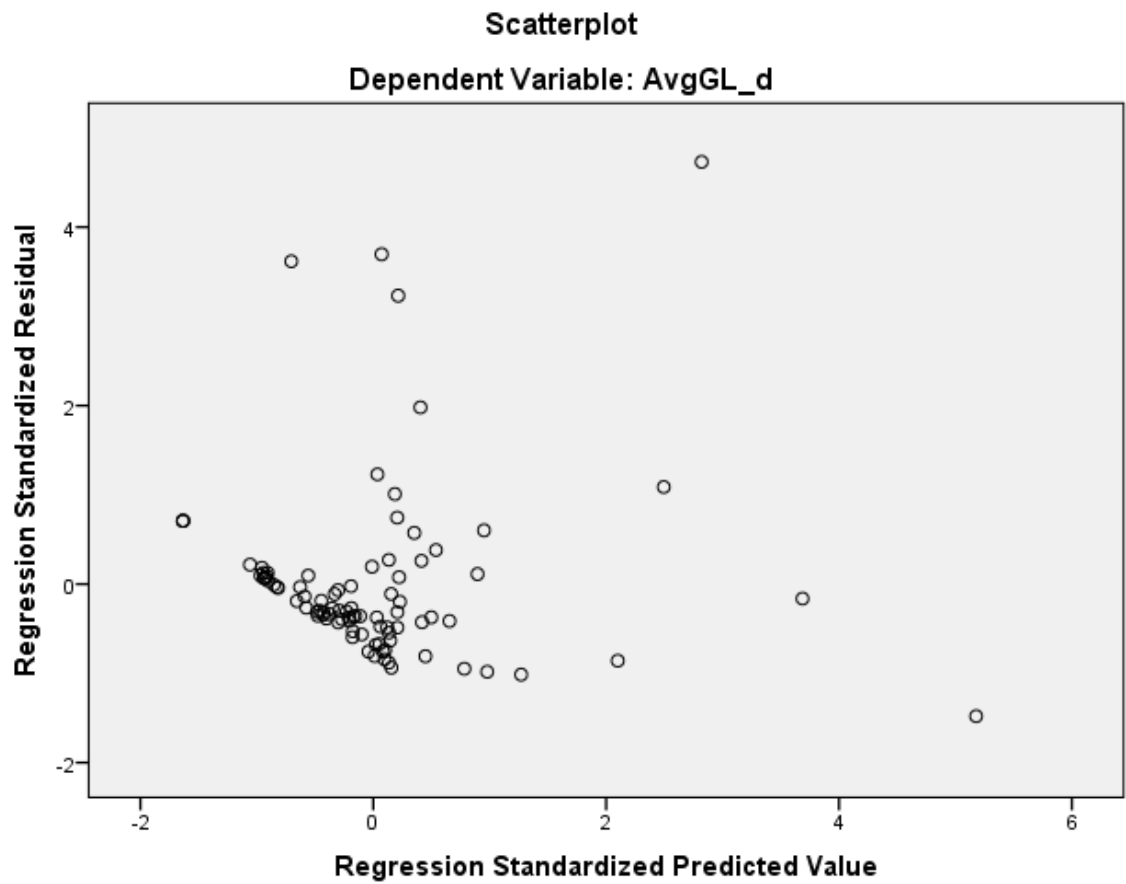
Deleted Residual	- .00263981660 8280	.00599283119 6636	- .00000121337 9888	.00119128637 4152
Stud. Deleted Residual	-1.893	5.919	.019	1.106
Mahal. Distance	.002	32.401	1.978	4.024
Cook's Distance	.000	1.087	.027	.134
Centered Leverage Value	.000	.360	.022	.045

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgGL_d

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL


```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgGL_d

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 14:59:40
Comments		
Input	Active Dataset	DataSet8
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	90

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgGL_d /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	6112 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	S_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgGL_d

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.614 ^a	.377	.370	.000989753929053
2	.655 ^b	.429	.416	.000952884025792

a. Predictors: (Constant), R_pro

b. Predictors: (Constant), R_pro, S_pro

c. Dependent Variable: AvgGL_d

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	53.203	.000 ^b
	Residual	.000	88	.000		
	Total	.000	89			
2	Regression	.000	2	.000	32.671	.000 ^c
	Residual	.000	87	.000		
	Total	.000	89			

a. Dependent Variable: AvgGL_d

b. Predictors: (Constant), R_pro

c. Predictors: (Constant), R_pro, S_pro

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.006	.001		9.454	.000
	R_pro	.430	.059	.614	7.294	.000
2	(Constant)	.007	.001		9.758	.000
	R_pro	.306	.072	.437	4.267	.000
	S_pro	.019	.007	.289	2.818	.006

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000
2	(Constant)		
	R_pro	.625	1.599
	S_pro	.625	1.599

a. Dependent Variable: AvgGL_d

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	-.137 ^b	-1.525	.131	-.161	.866	1.155

	PL_TSpoutN	-.031 ^b	-.309	.758	-.033	.711	1.407
	S_pro	.289 ^b	2.818	.006	.289	.625	1.599
	SMSP_d	-.012 ^b	-.143	.886	-.015	.994	1.006
2	PL_TpoutN	-.107 ^c	-1.221	.225	-.131	.851	1.175
	PL_TSpoutN	.011 ^c	.113	.911	.012	.694	1.441
	SMSP_d	-.002 ^c	-.029	.977	-.003	.992	1.008

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpoutN	.866
	PL_TSpoutN	.711
	S_pro	.625
	SMSP_d	.994
2	PL_TpoutN	.541
	PL_TSpoutN	.457
	SMSP_d	.621

a. Dependent Variable: AvgGL_d

b. Predictors in the Model: (Constant), R_pro

c. Predictors in the Model: (Constant), R_pro, S_pro

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_pro	S_pro
1	1	1.987	1.000	.01	.01	
	2	.013	12.463	.99	.99	
2	1	2.371	1.000	.00	.00	.04
	2	.620	1.955	.00	.00	.61
	3	.008	16.809	.99	1.00	.35

a. Dependent Variable: AvgGL_d

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00937327090 6508	.01510969549 4175	.01089771032 3078	.00081646606 4956
Std. Predicted Value	-1.867	5.159	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00929725077 0032	.01542531140 1486	.01089487607 3940	.00082847338 3909
Residual	- .00107978167 9437	.00414475426 0778	.00000000000 0000	.00094211662 9001
Std. Residual	-1.133	4.350	.000	.989

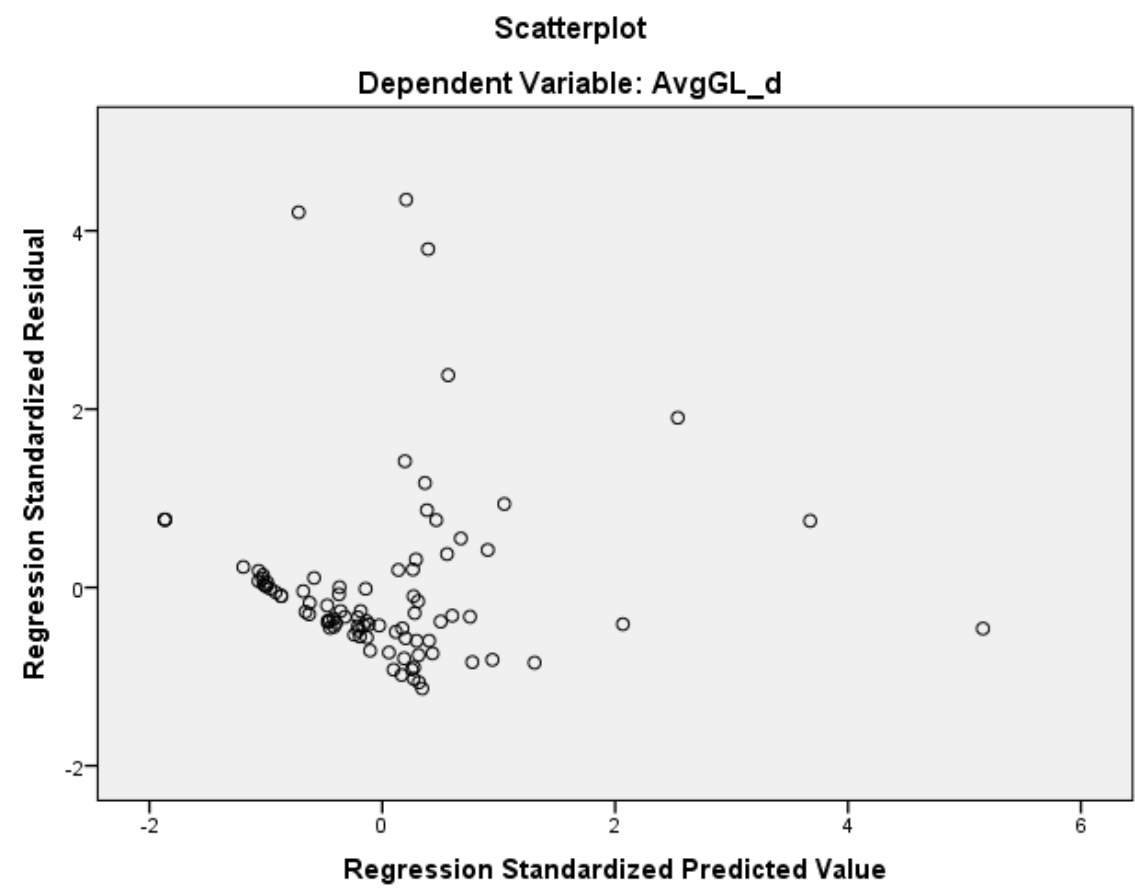
Stud. Residual	-1.156	4.401	.002	1.006
Deleted Residual	-	.00424403930	.00000283424	.00097620300
	.00112468027	0829	9137	5232
	5097			
Stud. Deleted Residual	-1.159	4.964	.019	1.076
Mahal. Distance	.004	36.199	1.978	4.407
Cook's Distance	.000	.188	.012	.033
Centered Leverage Value	.000	.407	.022	.050

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: AvgGL_d

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EOut

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 15:11:51
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECout /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.06
	Memory Required	5920 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCoutN

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 15:12:01	
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax	REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCoutN /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time	00:00:00.16

	Elapsed Time	00:00:00.17
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.212 ^a	.045	.034	.01504803469 4649
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a. Predictors: (Constant), R_pro

b. Dependent Variable: PL_EVCoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	4.182	.044 ^b
	Residual	.020	89	.000		
	Total	.021	90			

a. Dependent Variable: PL_EVCoutN

b. Predictors: (Constant), R_pro

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.009	.010		-.891	.375
	R_pro	1.791	.876	.212	2.045	.044

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1		
(Constant)		
R_pro	1.000	1.000

a. Dependent Variable: PL_EVCoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	-.063 ^b	-.564	.574	-.060	.857	1.167
	PL_TSpoutN	-.115 ^b	-.961	.339	-.102	.751	1.331
	S_pro	-.102 ^b	-.761	.448	-.081	.596	1.678
	SMSP_d	.101 ^b	.968	.336	.103	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpoutN	.857
	PL_TSpoutN	.751

S_pro	.596
SMSP_d	.995

a. Dependent Variable: PL_EVCoutN

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro
1	1	1.987	1.000	.01	.01
	2	.013	12.281	.99	.99

a. Dependent Variable: PL_EVCoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00313138542 6968	.02287341840 5652	.01098901098 9011	.00324379797 9039
Std. Predicted Value	-2.422	3.664	.000	1.000
Standard Error of Predicted Value	.002	.006	.002	.001

Adjusted Predicted Value	.00338963046 6700	.02723456360 3997	.01107184470 5096	.00346673740 2958
Residual	- .02287341840 5652	.05102530494 3323	.00000000000 0000	.01496420097 9987
Std. Residual	-1.520	3.391	.000	.994
Stud. Residual	-1.659	3.420	-.003	1.006
Deleted Residual	- .02723456360 3997	.05190571397 5430	- .00008283371 6085	.01531613437 4623
Stud. Deleted Residual	-1.675	3.649	.003	1.021
Mahal. Distance	.000	13.423	.989	1.871
Cook's Distance	.002	.262	.012	.031
Centered Leverage Value	.000	.149	.011	.021

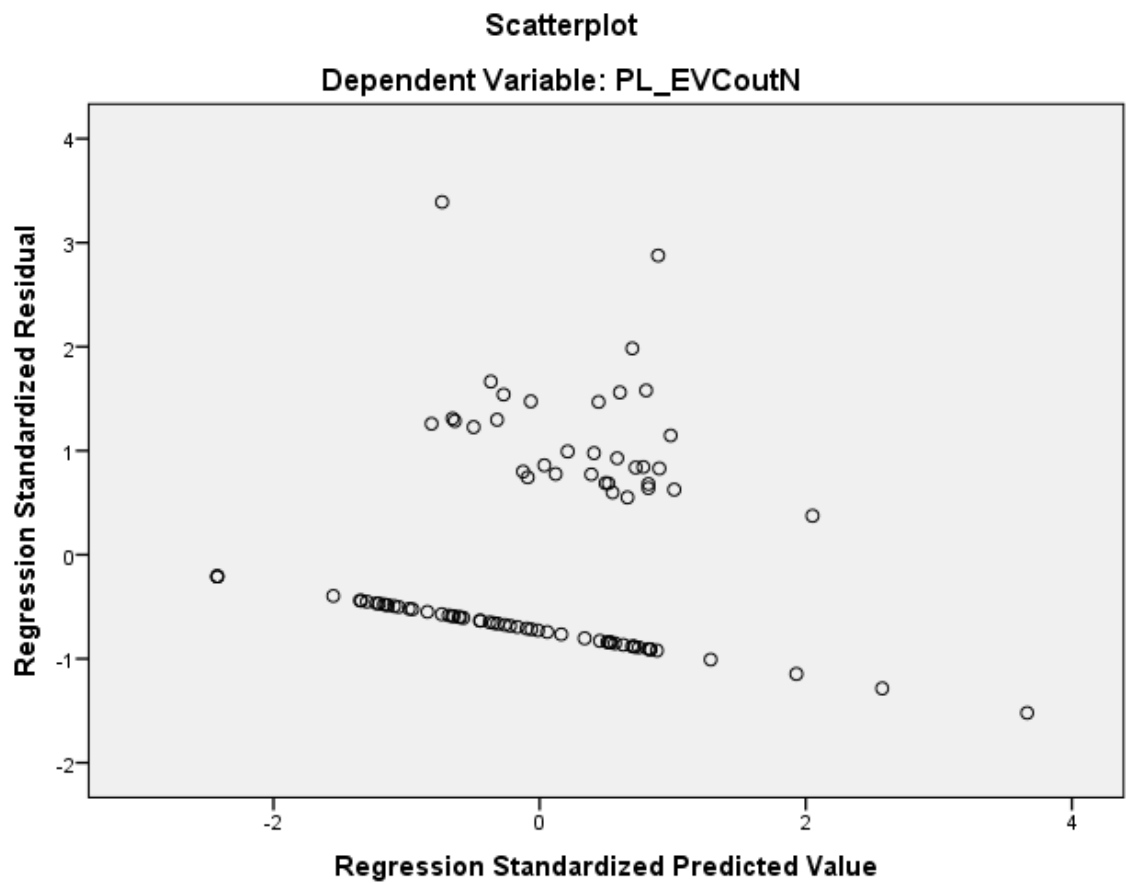
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91

Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCut_TpoutN

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:12:36
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		<p>REGRESSION</p> <p>/MISSING LISTWISE</p> <p>/STATISTICS COEFF OUTS R ANOVA COLLIN TOL</p> <p>/CRITERIA=PIN(.05) POUT(.10)</p> <p>/NOORIGIN</p> <p>/DEPENDENT EVCut_TpoutN</p> <p>/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d</p> <p>/SCATTERPLOT=(*ZRESID ,*ZPRED)</p> <p>/SAVE COOK.</p>
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.17
	Memory Required	6000 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCout_TpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.293 ^a	.086	.076	.02555722531 3335

a. Predictors: (Constant), R_pro

b. Dependent Variable: EVCout_TpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.005	1	.005	8.362	.005 ^b
	Residual	.058	89	.001		

Total	.064	90			
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a. Dependent Variable: EVCout_TpoutN

b. Predictors: (Constant), R_pro

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.058	.017		3.517	.001
	R_pro	-4.300	1.487	-.293	-2.892	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_pro	1.000	1.000

a. Dependent Variable: EVCout_TpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.044 ^b	.401	.690	.043	.857	1.167
	PL_TSpoutN	.022 ^b	.189	.850	.020	.751	1.331
	S_pro	.115 ^b	.877	.383	.093	.596	1.678
	SMSP_d	-.032 ^b	-.316	.752	-.034	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.857	
	PL_TSpoutN	.751	
	S_pro	.596	
	SMSP_d	.995	

a. Dependent Variable: EVCout_TpoutN

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro

1	1	1.987	1.000	.01	.01
	2	.013	12.281	.99	.99

a. Dependent Variable: EVCout_TpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01755283027 8873	.02986004948 6160	.01098901098 9011	.00779037298 2660
Std. Predicted Value	-3.664	2.422	.000	1.000
Standard Error of Predicted Value	.003	.010	.004	.001
Adjusted Predicted Value	- .02089952863 7528	.02397026680 4099	.01079822610 4386	.00766253660 8426
Residual	- .02306670695 5433	.07956983894 1097	.00000000000 0000	.02541484412 0180
Std. Residual	-.903	3.113	.000	.994
Stud. Residual	-.920	3.239	.004	1.014
Deleted Residual	- .02397026680 4099	.08613195270 2999	.00019078488 4625	.02643211201 8252
Stud. Deleted Residual	-.919	3.429	.016	1.045
Mahal. Distance	.000	13.423	.989	1.871

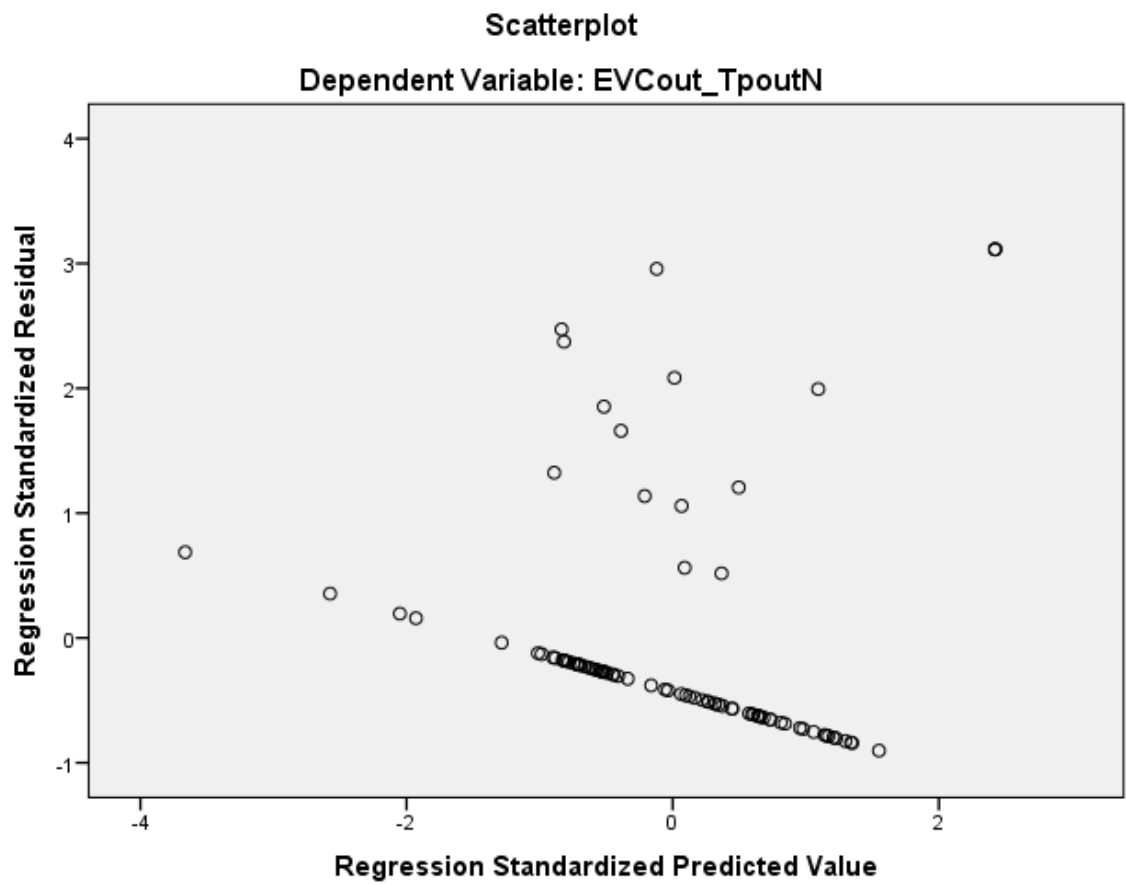
Cook's Distance	.000	.433	.021	.078
Centered Leverage Value	.000	.149	.011	.021

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCout_TSpoutN

/METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 15:12:50
Comments		
Input	Active Dataset	DataSet11
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCut_TSpoutN /METHOD=STEPWISE PL_TpoutN PL_TSpoutN S_pro R_pro SMSP_d /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.18
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method

1	R_pro		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCout_TSpoutN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.300 ^a	.090	.080	.02542800824 9531

a. Predictors: (Constant), R_pro

b. Dependent Variable: EVCout_TSpoutN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.006	1	.006	8.828	.004 ^b
	Residual	.058	89	.001		

Total	.063	90			
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a. Dependent Variable: EVCut_TSpoutN

b. Predictors: (Constant), R_pro

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.059	.016		3.599	.001
R_pro	-4.396	1.480	-.300	-2.971	.004

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
R_pro	1.000	1.000

a. Dependent Variable: EVCut_TSpoutN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpoutN	.012 ^b	.112	.911	.012	.857	1.167
	PL_TSpoutN	.012 ^b	.100	.920	.011	.751	1.331
	S_pro	.112 ^b	.854	.396	.091	.596	1.678
	SMSP_d	-.032 ^b	-.313	.755	-.033	.995	1.005

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpoutN	.857	
	PL_TSpoutN	.751	
	S_pro	.596	
	SMSP_d	.995	

a. Dependent Variable: EVCout_TSpoutN

b. Predictors in the Model: (Constant), R_pro

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_pro

1	1	1.987	1.000	.01	.01
	2	.013	12.281	.99	.99

a. Dependent Variable: EVCout_TSpoutN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .01818804815 4116	.03028003685 1764	.01098901098 9011	.00796375307 5906
Std. Predicted Value	-3.664	2.422	.000	1.000
Standard Error of Predicted Value	.003	.010	.004	.001
Adjusted Predicted Value	- .02165586128 8309	.02424959465 8613	.01078901688 1841	.00783241464 9246
Residual	- .02333550527 6918	.08241207897 6631	.00000000000 0000	.02528634693 4199
Std. Residual	-.918	3.241	.000	.994
Stud. Residual	-.936	3.372	.004	1.015
Deleted Residual	- .02424959465 8613	.08920858800 4112	.00019999410 7170	.02635748747 0143
Stud. Deleted Residual	-.935	3.590	.016	1.049
Mahal. Distance	.000	13.423	.989	1.871

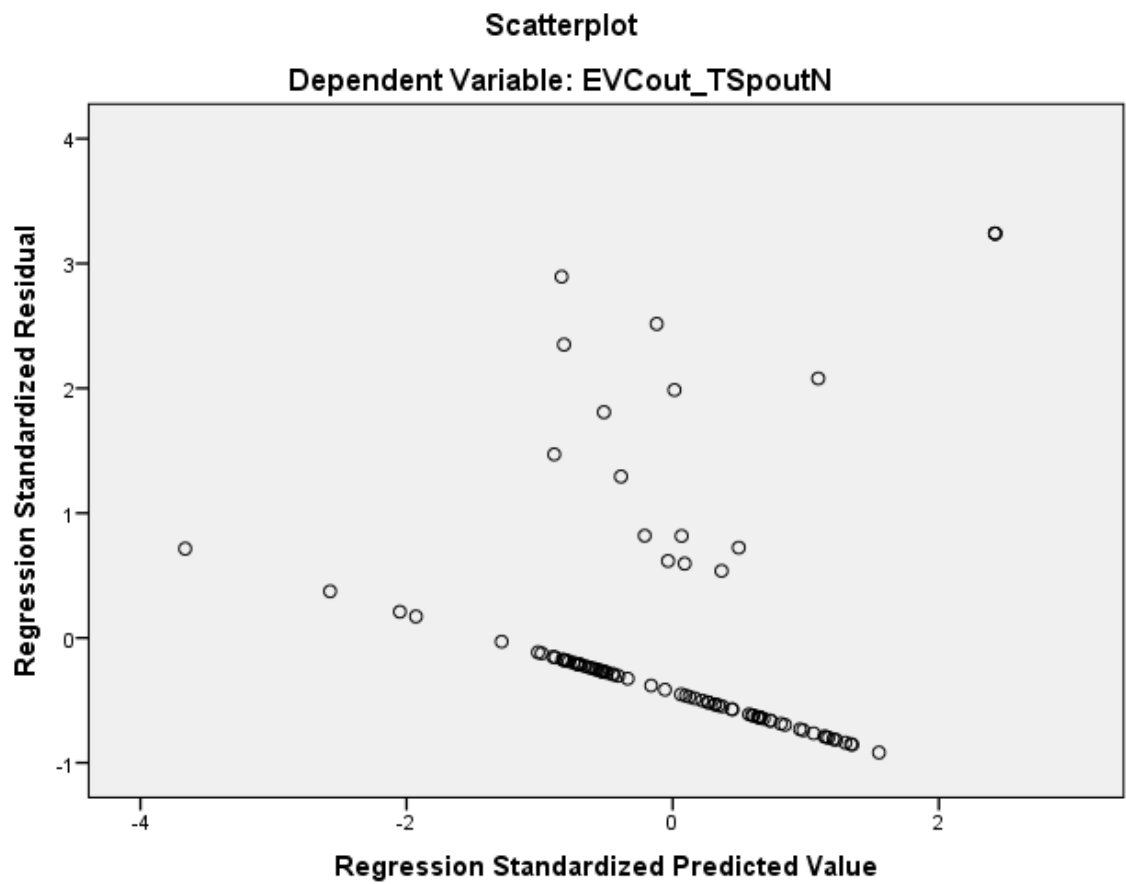
Cook's Distance	.000	.469	.022	.084
Centered Leverage Value	.000	.149	.011	.021

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCout_TSpoutN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECud

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

```
/SCATTERPLOT=(*ZRESID ,*ZPRED)
```

```
/SAVE COOK.
```

Regression

Notes

Output Created		28-MAY-2015 14:21:38
Comments		
Input	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECud /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.22
	Memory Required	15744 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.294 ^a	.086	.076	.00233241196 1123

a. Predictors: (Constant), AvgGL_ud

b. Dependent Variable: ECud

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.000	1	.000	8.406	.005 ^b
	Residual	.000	89	.000		
	Total	.001	90			

a. Dependent Variable: ECud

b. Predictors: (Constant), AvgGL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.018	.002		7.632	.000
	AvgGL_ud	-.607	.209	-.294	-2.899	.005

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_ud	1.000	1.000

a. Dependent Variable: ECud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	.031 ^b	.296	.768	.032	.959	1.042
	Edges_ud	.024 ^b	.229	.820	.024	.949	1.053
	Den_ud	-.080 ^b	-.767	.445	-.082	.957	1.045
	CC_ud	-.196 ^b	-1.952	.054	-.204	.983	1.017
	GD_ud	.097 ^b	.684	.496	.073	.516	1.939
	Tpaths_ud	.045 ^b	.304	.762	.032	.467	2.141
	TSpaths_ud	.051 ^b	.483	.630	.051	.918	1.089
	AvgPL_ud	.060 ^b	.424	.672	.045	.514	1.945
	PL_TpudN	.168 ^b	1.618	.109	.170	.935	1.069
	PL_TSpudN	.007 ^b	.071	.944	.008	.999	1.001
	S_ud	-.053 ^b	-.514	.609	-.055	.966	1.035
	R_ud	-.139 ^b	-1.024	.309	-.108	.555	1.802
	SMSP_ud	-.142 ^b	-1.398	.166	-.147	.983	1.017

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Nodes	.959	

Edges_ud	.949
Den_ud	.957
CC_ud	.983
GD_ud	.516
Tpaths_ud	.467
TSpaths_ud	.918
AvgPL_ud	.514
PL_TpudN	.935
PL_TSpudN	.999
S_ud	.966
R_ud	.555
SMSP_ud	.983

a. Dependent Variable: ECud

b. Predictors in the Model: (Constant), AvgGL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgGL_ud
1	1	1.994	1.000	.00	.00
	2	.006	18.875	1.00	1.00

a. Dependent Variable: ECud

Residuals Statistics^a

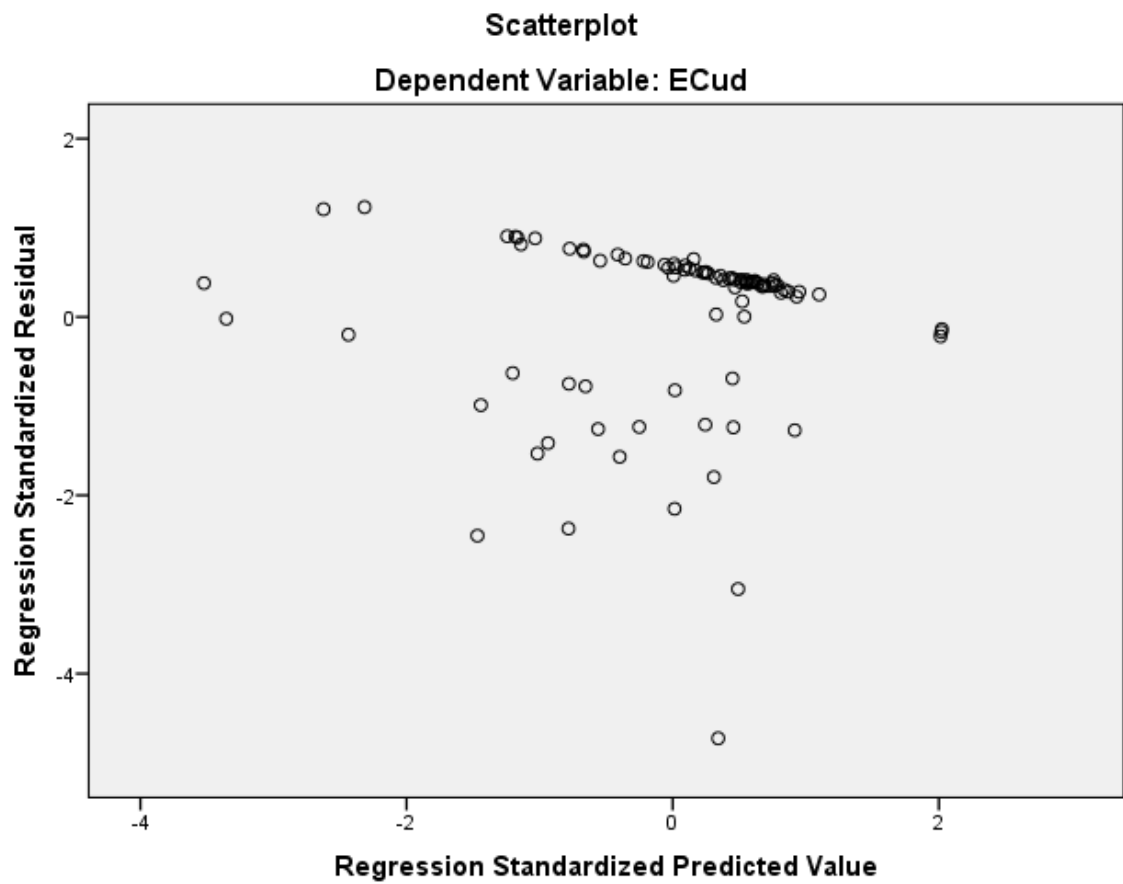
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00847810599 9529	.01243101991 7130	.01098901098 9011	.00071283246 0462
Std. Predicted Value	-3.522	2.023	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00832302682 1017	.01245404686 7788	.01098514284 5382	.00072936677 6419
Residual	- .01102044805 8844	.00287326215 7664	.00000000000 0000	.00231941792 1516
Std. Residual	-4.725	1.232	.000	.994
Stud. Residual	-4.754	1.278	.001	1.004
Deleted Residual	- .01115752011 5376	.00309146544 8961	.00000386814 3629	.00236406965 7496
Stud. Deleted Residual	-5.473	1.282	-.013	1.055
Mahal. Distance	.000	12.408	.989	2.071
Cook's Distance	.000	.141	.010	.022
Centered Leverage Value	.000	.138	.011	.023

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCud

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:22:17
Comments		
Input	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCud /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	15792 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.303 ^a	.092	.082	.00157366063 6259
2	.433 ^b	.188	.169	.00149656114 5449

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, Tpaths_ud

c. Dependent Variable: PL_EVCud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	8.987	.004 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	10.171	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: PL_EVCud

b. Predictors: (Constant), R_ud

c. Predictors: (Constant), R_ud, Tpaths_ud

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
-------	-----------------------------	---------------------------	---	------

		B	Std. Error	Beta		
1	(Constant)	.003	.003		1.365	.176
	R_ud	.687	.229	.303	2.998	.004
2	(Constant)	.002	.002		.610	.543
	R_ud	1.148	.261	.506	4.406	.000
	Tpaths_ud	-.286	.089	-.371	-3.226	.002

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.699	1.432
	Tpaths_ud	.699	1.432

a. Dependent Variable: PL_EVCud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.181 ^b	-1.713	.090	-.180	.899	1.112

	Edges_ud	-.197 ^b	-1.904	.060	-.199	.926	1.080
	Den_ud	.015 ^b	.145	.885	.015	.946	1.057
	CC_ud	-.064 ^b	-.590	.557	-.063	.874	1.144
	GD_ud	-.323 ^b	-2.515	.014	-.259	.583	1.714
	Tpaths_ud	-.371 ^b	-3.226	.002	-.325	.699	1.432
	TSpaths_ud	-.151 ^b	-1.469	.145	-.155	.955	1.047
	AvgPL_ud	-.342 ^b	-2.684	.009	-.275	.587	1.704
	AvgGL_ud	-.357 ^b	-2.726	.008	-.279	.555	1.802
	PL_TpudN	.065 ^b	.575	.567	.061	.811	1.233
	PL_TSpudN	.025 ^b	.242	.809	.026	.993	1.007
	S_ud	.165 ^b	1.289	.201	.136	.615	1.625
	SMSP_ud	-.013 ^b	-.122	.903	-.013	.879	1.138
2	Nodes	-.052 ^c	-.467	.642	-.050	.740	1.351
	Edges_ud	-.081 ^c	-.738	.462	-.079	.777	1.287
	Den_ud	-.108 ^c	-1.030	.306	-.110	.833	1.201
	CC_ud	-.051 ^c	-.490	.625	-.053	.873	1.146
	GD_ud	.345 ^c	1.058	.293	.113	.087	11.538
	TSpaths_ud	-.036 ^c	-.334	.739	-.036	.818	1.223
	AvgPL_ud	.369 ^c	.967	.336	.103	.063	15.761
	AvgGL_ud	-.173 ^c	-1.090	.279	-.116	.365	2.736
	PL_TpudN	.057 ^c	.532	.596	.057	.811	1.234
	PL_TSpudN	-.005 ^c	-.054	.957	-.006	.984	1.016

S_ud	.012 ^c	.088	.930	.009	.520	1.923
SMSP_ud	.011 ^c	.111	.912	.012	.874	1.144

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Nodes	.899
	Edges_ud	.926
	Den_ud	.946
	CC_ud	.874
	GD_ud	.583
	Tpaths_ud	.699
	TSpaths_ud	.955
	AvgPL_ud	.587
	AvgGL_ud	.555
	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879
2	Nodes	.530
	Edges_ud	.559
	Den_ud	.596

CC_ud	.642
GD_ud	.087
TSpaths_ud	.594
AvgPL_ud	.063
AvgGL_ud	.365
PL_TpudN	.595
PL_TSpudN	.688
S_ud	.366
SMSP_ud	.651

a. Dependent Variable: PL_EVCud

b. Predictors in the Model: (Constant), R_ud

c. Predictors in the Model: (Constant), R_ud, Tpaths_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_ud	Tpaths_ud
1	1	1.998	1.000	.00	.00	
	2	.002	30.551	1.00	1.00	
2	1	2.978	1.000	.00	.00	.00
	2	.021	12.000	.05	.01	.79

3	.002	41.357	.95	.99	.20
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a. Dependent Variable: PL_EVCud

Residuals Statistics^a

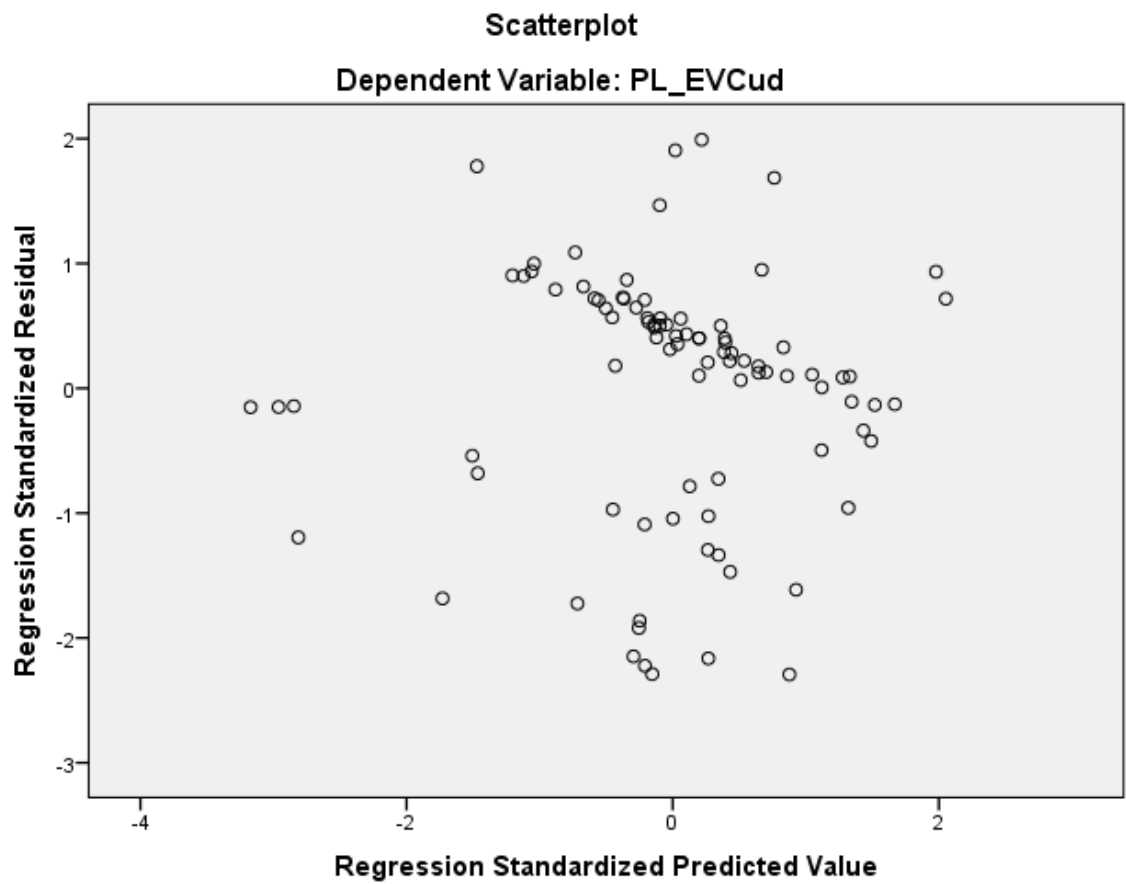
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00873204134 4047	.01244944240 8979	.01098901098 9011	.00071150429 4393
Std. Predicted Value	-3.172	2.053	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00878529436 8863	.01238176785 4095	.01099326316 7789	.00069732928 0021
Residual	- .00343081727 6239	.00298128253 7803	.00000000000 0000	.00147983926 7030
Std. Residual	-2.292	1.992	.000	.989
Stud. Residual	-2.316	2.027	-.001	1.004
Deleted Residual	- .00350288068 8757	.00308737647 7197	- .00000425217 8778	.00152526029 3917
Stud. Deleted Residual	-2.377	2.064	-.005	1.015
Mahal. Distance	.019	16.161	1.978	3.250
Cook's Distance	.000	.121	.010	.019
Centered Leverage Value	.000	.180	.022	.036

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TpudN

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:22:34
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TpudN /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.17
	Memory Required	15824 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.777 ^a	.603	.599	.002599512709026

a. Predictors: (Constant), PL_TpudN

b. Dependent Variable: EVCud_TpudN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.001	1	.001	135.361	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.001	.001		1.415	.160
	PL_TpudN	.887	.076	.777	11.634	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpudN	1.000	1.000

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.063 ^b	-.899	.371	-.095	.921	1.086
	Edges_ud	-.057 ^b	-.821	.414	-.087	.935	1.069
	Den_ud	.055 ^b	.811	.419	.086	.957	1.045
	CC_ud	.008 ^b	.114	.909	.012	.985	1.016
	GD_ud	.034 ^b	.474	.637	.050	.853	1.173
	Tpaths_ud	-.062 ^b	-.910	.365	-.097	.951	1.052
	TSpaths_ud	-.054 ^b	-.795	.429	-.084	.955	1.047
	AvgPL_ud	-.007 ^b	-.105	.917	-.011	.891	1.123
	AvgGL_ud	.041 ^b	.589	.557	.063	.935	1.069
	PL_TSpudN	-.050 ^b	-.745	.458	-.079	.996	1.004
	S_ud	.067 ^b	.953	.343	.101	.912	1.096
	R_ud	.096 ^b	1.299	.197	.137	.811	1.233
	SMSP_ud	-.020 ^b	-.288	.774	-.031	.968	1.033

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Nodes	.921	

Edges_ud	.935
Den_ud	.957
CC_ud	.985
GD_ud	.853
Tpaths_ud	.951
TSpaths_ud	.955
AvgPL_ud	.891
AvgGL_ud	.935
PL_TSpudN	.996
S_ud	.912
R_ud	.811
SMSP_ud	.968

a. Dependent Variable: EVCud_TpudN

b. Predictors in the Model: (Constant), PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TpudN
1	1	1.951	1.000	.02	.02
	2	.049	6.304	.98	.98

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

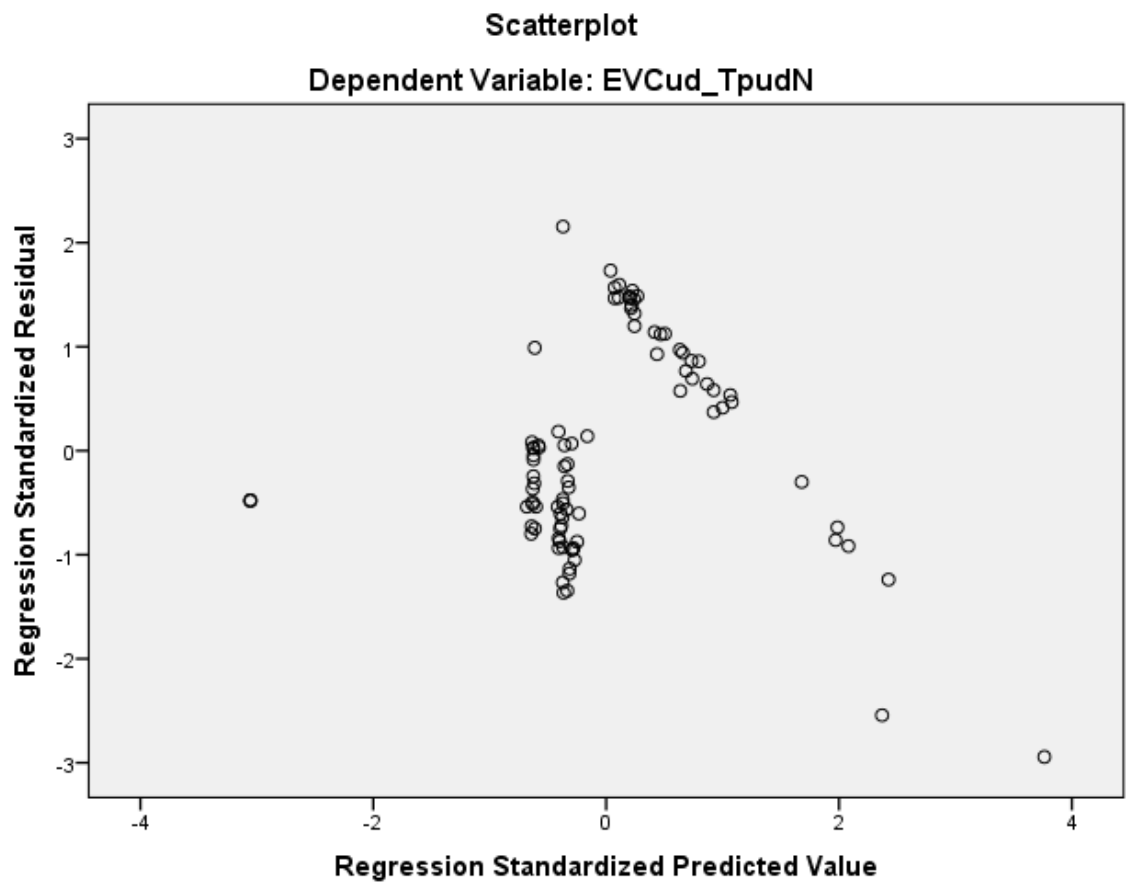
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00124648353 0849	.02298762835 5622	.01098901098 9011	.00318799500 1121
Std. Predicted Value	-3.056	3.764	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00140807020 9436	.02453692816 1979	.01102009432 6946	.00326156189 9130
Residual	- .00765181658 7895	.00560083892 1964	.00000000000 0000	.00258503063 1391
Std. Residual	-2.944	2.155	.000	.994
Stud. Residual	-3.228	2.168	-.006	1.014
Deleted Residual	- .00920111685 9913	.00567183643 5795	- .00003108333 7935	.00269075497 0848
Stud. Deleted Residual	-3.416	2.215	-.007	1.027
Mahal. Distance	.001	14.165	.989	2.375
Cook's Distance	.000	1.055	.022	.113
Centered Leverage Value	.000	.157	.011	.026

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:22:56
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Input	Active Dataset	DataSet4
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TSpudN /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.21
	Memory Required	15872 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

5	R_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCud_TSpudN

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.506 ^a	.256	.248	.00020477022 2265
2	.621 ^b	.385	.371	.00018721079 0505
3	.717 ^c	.514	.497	.00016744992 2373
4	.742 ^d	.550	.529	.00016203784 7070
5	.760 ^e	.577	.552	.00015799076 5036

a. Predictors: (Constant), Nodes

b. Predictors: (Constant), Nodes, TSpudN

c. Predictors: (Constant), Nodes, TSpudN, AvgGL_ud

d. Predictors: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud

e. Predictors: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud, R_ud

f. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	30.638	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	27.567	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	30.637	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	4	.000	26.265	.000 ^e
	Residual	.000	86	.000		
	Total	.000	90			
5	Regression	.000	5	.000	23.195	.000 ^f
	Residual	.000	85	.000		

Total	.000	90			
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a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), Nodes

c. Predictors: (Constant), Nodes, TSpaths_ud

d. Predictors: (Constant), Nodes, TSpaths_ud, AvgGL_ud

e. Predictors: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud

f. Predictors: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud, R_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.011	.000		205.025	.000
	Nodes	-.025	.005	-.506	-5.535	.000
2	(Constant)	.007	.001		7.680	.000
	Nodes	-.078	.013	-1.554	-6.030	.000
	TSpaths_ud	.420	.098	1.108	4.299	.000
3	(Constant)	.007	.001		7.986	.000
	Nodes	-.091	.012	-1.805	-7.637	.000
	TSpaths_ud	.552	.092	1.455	6.022	.000
	AvgGL_ud	-.077	.016	-.384	-4.795	.000

4	(Constant)	.005	.001		5.040	.000
	Nodes	-.097	.012	-1.919	-8.243	.000
	TSpaths_ud	.709	.107	1.867	6.633	.000
	AvgGL_ud	-.109	.020	-.543	-5.522	.000
	S_ud	.028	.011	.354	2.628	.010
5	(Constant)	.005	.001		4.670	.000
	Nodes	-.111	.013	-2.205	-8.551	.000
	TSpaths_ud	.824	.115	2.172	7.147	.000
	AvgGL_ud	-.077	.024	-.382	-3.238	.002
	S_ud	.045	.013	.563	3.544	.001
	R_ud	-.112	.048	-.343	-2.337	.022

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Nodes	1.000	1.000
2	(Constant)		
	Nodes	.105	9.507
	TSpaths_ud	.105	9.507
3	(Constant)		
	Nodes	.100	9.998
	TSpaths_ud	.096	10.445

	AvgGL_ud	.873	1.145
4	(Constant)		
	Nodes	.097	10.358
	TSpaths_ud	.066	15.135
	AvgGL_ud	.541	1.849
	S_ud	.289	3.461
5	(Constant)		
	Nodes	.075	13.367
	TSpaths_ud	.054	18.558
	AvgGL_ud	.357	2.801
	S_ud	.197	5.071
	R_ud	.231	4.326

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Edges_ud	1.802 ^b	2.812	.006	.287	.019	52.958	.019
	Den_ud	-.535 ^b	-3.250	.002	-.327	.278	3.597	.278
	CC_ud	-.042 ^b	-.451	.653	-.048	.986	1.014	.986

	GD_ud	-.258 ^b	-2.921	.004	-.297	.988	1.013	.988
	Tpaths_ud	-.252 ^b	-2.830	.006	-.289	.975	1.026	.975
	TSpaths_ud	1.108 ^b	4.299	.000	.417	.105	9.507	.105
	AvgPL_ud	-.254 ^b	-2.875	.005	-.293	.991	1.009	.991
	AvgGL_ud	-.239 ^b	-2.648	.010	-.272	.959	1.042	.959
	PL_TpudN	-.119 ^b	-1.253	.214	-.132	.921	1.086	.921
	PL_TSpud N	.064 ^b	.699	.487	.074	.995	1.005	.995
	S_ud	-.260 ^b	-2.104	.038	-.219	.527	1.899	.527
	R_ud	-.186 ^b	-1.955	.054	-.204	.899	1.112	.899
	SMSP_ud	-.022 ^b	-.235	.815	-.025	.999	1.001	.999
2	Edges_ud	.349 ^c	.455	.650	.049	.012	83.458	.012
	Den_ud	-.116 ^c	-.522	.603	-.056	.142	7.024	.054
	CC_ud	-.073 ^c	-.865	.389	-.092	.979	1.022	.104
	GD_ud	-.291 ^c	-3.686	.000	-.368	.980	1.020	.104
	Tpaths_ud	-.308 ^c	-3.887	.000	-.385	.956	1.046	.103
	AvgPL_ud	-.284 ^c	-3.596	.001	-.360	.984	1.016	.104
	AvgGL_ud	-.384 ^c	-4.795	.000	-.457	.873	1.145	.096
	PL_TpudN	-.192 ^c	-2.215	.029	-.231	.891	1.122	.098
	PL_TSpud N	-.053 ^c	-.599	.551	-.064	.898	1.113	.095
	S_ud	-.105 ^c	-.855	.395	-.091	.467	2.143	.093
	R_ud	-.324 ^c	-3.767	.000	-.374	.822	1.216	.091

	SMSP_ud	-.083 ^c	-.982	.329	-.105	.971	1.029	.102
3	Edges_ud	.392 ^d	.572	.569	.062	.012	83.473	.012
	Den_ud	.080 ^d	.395	.694	.043	.136	7.326	.047
	CC_ud	-.023 ^d	-.302	.763	-.033	.960	1.042	.096
	GD_ud	-.045 ^d	-.393	.695	-.042	.430	2.326	.091
	Tpaths_ud	-.092 ^d	-.836	.406	-.090	.460	2.172	.094
	AvgPL_ud	-.032 ^d	-.280	.780	-.030	.434	2.304	.091
	PL_TpudN	-.087 ^d	-1.053	.295	-.113	.813	1.229	.095
	PL_TSpud N	-.072 ^d	-.915	.363	-.098	.896	1.116	.086
	S_ud	.354 ^d	2.628	.010	.273	.289	3.461	.066
	R_ud	-.050 ^d	-.387	.700	-.042	.339	2.953	.089
	SMSP_ud	-.049 ^d	-.634	.527	-.068	.962	1.039	.094
4	Edges_ud	-.223 ^e	-.315	.753	-.034	.011	94.317	.011
	Den_ud	-.041 ^e	-.203	.840	-.022	.129	7.741	.043
	CC_ud	-.123 ^e	-1.533	.129	-.164	.799	1.251	.061
	GD_ud	-.002 ^e	-.016	.987	-.002	.420	2.379	.062
	Tpaths_ud	-.039 ^e	-.355	.723	-.039	.443	2.259	.063
	AvgPL_ud	.007 ^e	.063	.950	.007	.426	2.346	.062
	PL_TpudN	-.099 ^e	-1.236	.220	-.133	.811	1.233	.065
	PL_TSpud N	-.071 ^e	-.926	.357	-.100	.896	1.116	.062
	R_ud	-.343 ^e	-2.337	.022	-.246	.231	4.326	.054
	SMSP_ud	-.160 ^e	-2.001	.049	-.212	.787	1.270	.058

5	Edges_ud	-.008 ^f	-.012	.991	-.001	.010	96.045	.010
	Den_ud	-.090 ^f	-.455	.650	-.050	.128	7.828	.039
	CC_ud	-.097 ^f	-1.216	.227	-.132	.780	1.282	.052
	GD_ud	.092 ^f	.795	.429	.086	.375	2.668	.046
	Tpaths_ud	.058 ^f	.510	.611	.056	.385	2.598	.047
	AvgPL_ud	.101 ^f	.884	.379	.096	.380	2.632	.046
	PL_TpudN	-.065 ^f	-.806	.422	-.088	.778	1.286	.054
	PL_TSpud N	-.068 ^f	-.905	.368	-.098	.896	1.116	.051
	SMSP_ud	-.128 ^f	-1.585	.117	-.170	.754	1.326	.050

a. Dependent Variable: EVCud_TSpudN

b. Predictors in the Model: (Constant), Nodes

c. Predictors in the Model: (Constant), Nodes, TSpaths_ud

d. Predictors in the Model: (Constant), Nodes, TSpaths_ud, AvgGL_ud

e. Predictors in the Model: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud

f. Predictors in the Model: (Constant), Nodes, TSpaths_ud, AvgGL_ud, S_ud, R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	Nodes	TSpaths_ud
1	1	1.921	1.000	.04	.04	

	2	.079	4.918	.96	.96	
2	1	2.906	1.000	.00	.00	.00
	2	.093	5.576	.00	.11	.00
	3	.000	124.822	1.00	.88	1.00
3	1	3.887	1.000	.00	.00	.00
	2	.106	6.045	.00	.11	.00
	3	.007	23.996	.01	.00	.01
	4	.000	148.149	.99	.89	.99
4	1	4.792	1.000	.00	.00	.00
	2	.187	5.069	.00	.05	.00
	3	.015	17.998	.00	.19	.00
	4	.006	27.745	.01	.01	.00
	5	.000	201.484	.99	.74	1.00
5	1	5.786	1.000	.00	.00	.00
	2	.191	5.508	.00	.04	.00
	3	.016	19.165	.00	.14	.00
	4	.006	30.330	.01	.01	.00
	5	.001	82.668	.04	.03	.00
	6	.000	236.162	.95	.78	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		AvgGL_ud	S_ud	R_ud

1	1			
	2			
2	1			
	2			
	3			
3	1	.00		
	2	.01		
	3	.94		
	4	.05		
4	1	.00	.00	
	2	.00	.04	
	3	.01	.54	
	4	.73	.09	
	5	.26	.34	
5	1	.00	.00	.00
	2	.00	.02	.00
	3	.00	.40	.00
	4	.44	.06	.00
	5	.53	.09	.86
	6	.03	.43	.14

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00964111275 9709	.01129594445 2286	.01098901098 9011	.00017934603 2151
Std. Predicted Value	-7.516	1.711	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00991645362 2282	.01137092243 8800	.01099452706 0083	.00015507693 4930
Residual	- .00051004346 4601	.00094223825 7267	.00000000000 0000	.00015353942 5126
Std. Residual	-3.228	5.964	.000	.972
Stud. Residual	-5.505	6.228	-.011	1.169
Deleted Residual	- .00148316042 0321	.00107939715 9629	- .00000551607 1072	.00024096000 7854
Stud. Deleted Residual	-6.822	8.397	.009	1.421
Mahal. Distance	.343	58.061	4.945	8.838
Cook's Distance	.000	9.637	.158	1.072
Centered Leverage Value	.004	.645	.055	.098

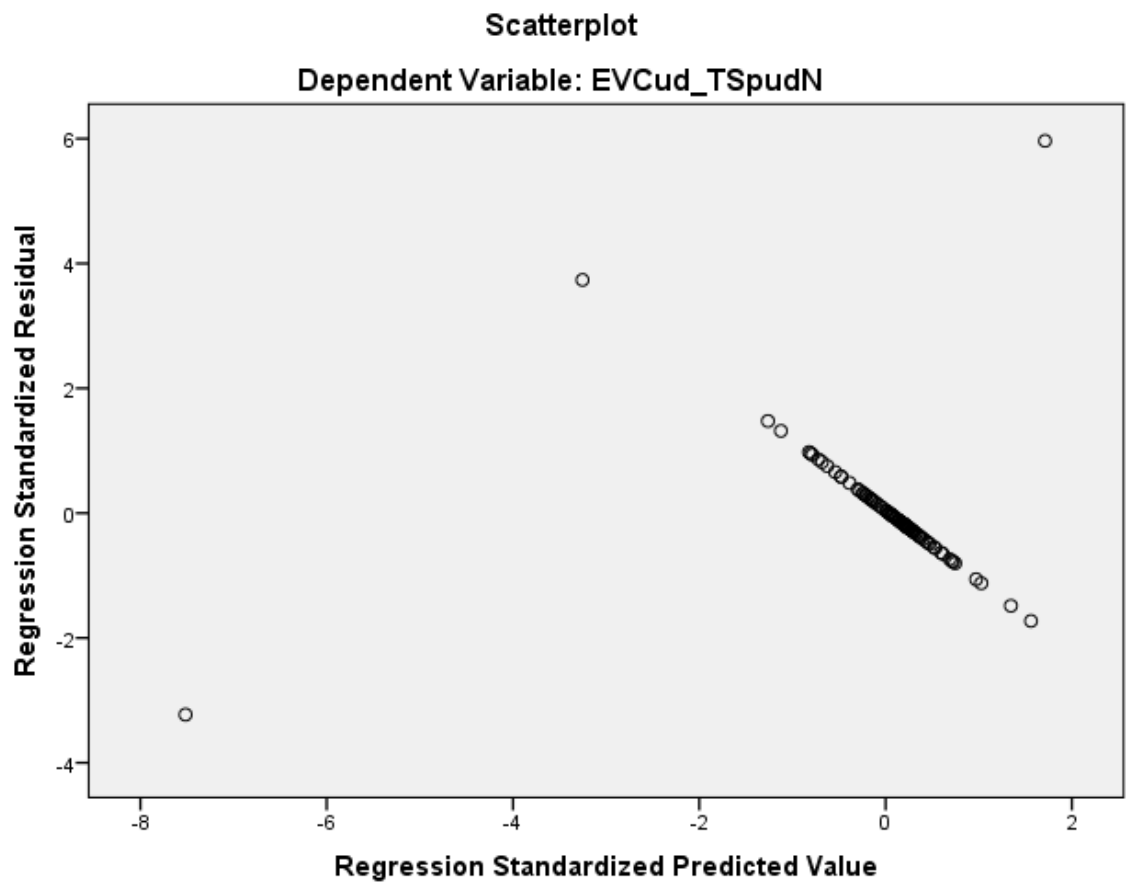
Residuals Statistics^a

	N
Predicted Value	91

Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TSpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TpudN

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpudN_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:24:02
Comments		
Input	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	90
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TpudN /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	15904 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.803 ^a	.645	.641	.00245646004 6261

a. Predictors: (Constant), PL_TpudN

b. Dependent Variable: EVCud_TpudN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.001	1	.001	160.087	.000 ^b
	Residual	.001	88	.000		
	Total	.001	89			

a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.000	.001		.193	.847
	PL_TpudN	.994	.079	.803	12.653	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpudN	1.000	1.000

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Nodes	-.036 ^b	-.542	.589	-.058	.907	1.102
	Edges_ud	-.033 ^b	-.499	.619	-.053	.924	1.082
	Den_ud	.030 ^b	.455	.650	.049	.944	1.059
	CC_ud	.012 ^b	.193	.847	.021	.989	1.011
	GD_ud	.015 ^b	.210	.834	.023	.852	1.174
	Tpaths_ud	-.068 ^b	-1.055	.295	-.112	.954	1.048
	TSpaths_ud	-.030 ^b	-.463	.645	-.050	.944	1.060
	AvgPL_ud	-.024 ^b	-.351	.727	-.038	.891	1.122
	AvgGL_ud	.025 ^b	.380	.705	.041	.932	1.073
	PL_TSpudN	-.026 ^b	-.405	.686	-.043	1.000	1.000
	S_ud	.032 ^b	.479	.633	.051	.890	1.123
	R_ud	.062 ^b	.865	.390	.092	.795	1.259
	SMSP_ud	-.018 ^b	-.275	.784	-.030	.974	1.026

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Nodes	.907	

Edges_ud	.924
Den_ud	.944
CC_ud	.989
GD_ud	.852
Tpaths_ud	.954
TSpaths_ud	.944
AvgPL_ud	.891
AvgGL_ud	.932
PL_TSpudN	1.000
S_ud	.890
R_ud	.795
SMSP_ud	.974

a. Dependent Variable: EVCud_TpudN

b. Predictors in the Model: (Constant), PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TpudN
1	1	1.957	1.000	.02	.02
	2	.043	6.723	.98	.98

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

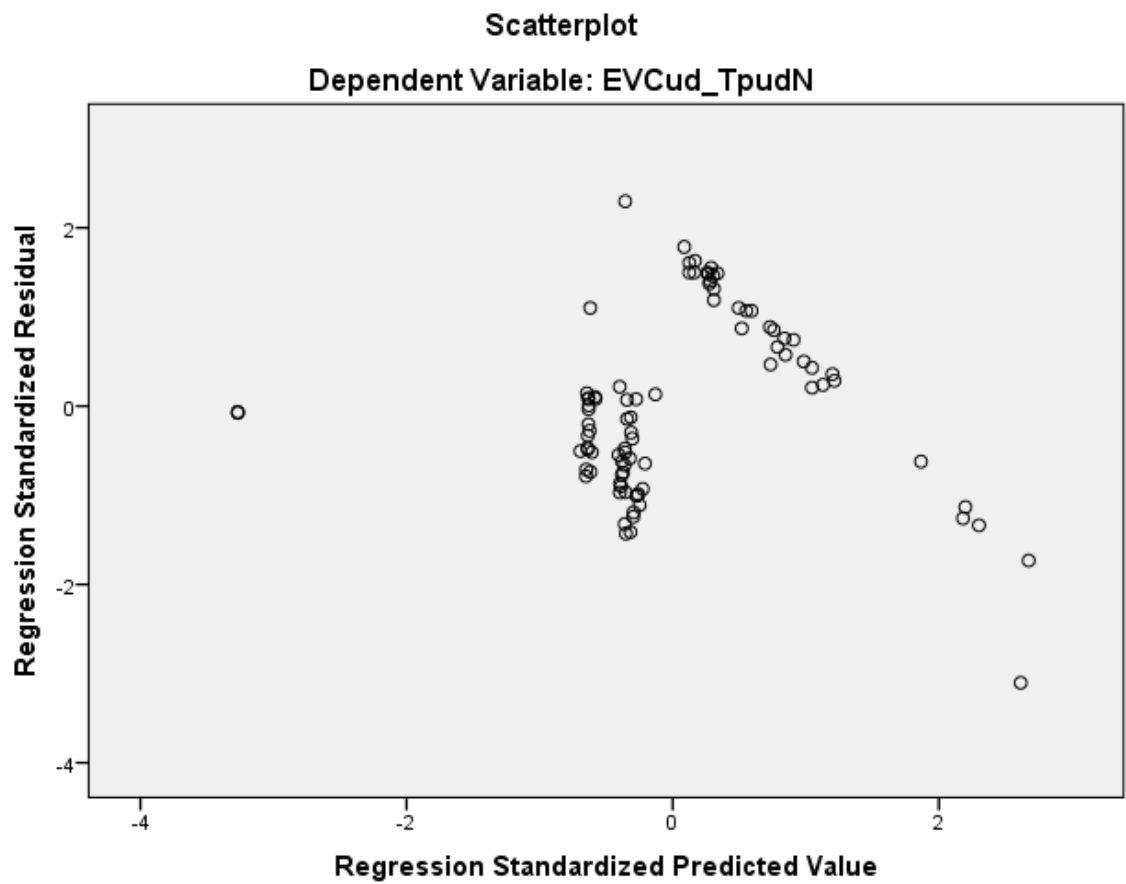
	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00017170773 9355	.01975384913 3849	.01094071321 2046	.00329452855 8382
Std. Predicted Value	-3.269	2.675	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00019762976 4443	.02029068395 4954	.01095838112 1659	.00333645230 0135
Residual	- .00762366689 7416	.00564244203 2695	.00000000000 0000	.00244262072 4608
Std. Residual	-3.104	2.297	.000	.994
Stud. Residual	-3.250	2.312	-.004	1.008
Deleted Residual	- .00835873372 8528	.00571410916 7457	- .00001766790 9613	.00251322206 8630
Stud. Deleted Residual	-3.444	2.371	-.004	1.021
Mahal. Distance	.007	10.685	.989	2.260
Cook's Distance	.000	.509	.015	.056
Centered Leverage Value	.000	.120	.011	.025

Residuals Statistics^a

	N
Predicted Value	90
Std. Predicted Value	90
Standard Error of Predicted Value	90
Adjusted Predicted Value	90
Residual	90
Std. Residual	90
Stud. Residual	90
Deleted Residual	90
Stud. Deleted Residual	90
Mahal. Distance	90
Cook's Distance	90
Centered Leverage Value	90

a. Dependent Variable: EVCud_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud
AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 14:25:05
Comments		
Input	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	88
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TSpudN /METHOD=STEPWISE Nodes Edges_ud Den_ud CC_ud GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01
	Memory Required	15952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECud

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression (Impact of Network Flow Variables on Eigenvector Centralization)

Notes

Output Created	28-MAY-2015 12:57:40	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>

	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time		00:00:00.16
	Elapsed Time		00:00:00.18
	Memory Required	6272 bytes	
	Additional Memory Required for Residual Plots	0 bytes	

Variables Created or Modified	COO_11	Cook's Distance
-------------------------------	--------	-----------------

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.294 ^a	.086	.076	.00233241196 1123

a. Predictors: (Constant), AvgGL_ud

b. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	8.406	.005 ^b
	Residual	.000	89	.000		
	Total	.001	90			

a. Dependent Variable: ECud

b. Predictors: (Constant), AvgGL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.018	.002		7.632	.000
	AvgGL_ud	-.607	.209	-.294	-2.899	.005

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF

1	(Constant)		
	AvgGL_ud	1.000	1.000

a. Dependent Variable: ECud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.097 ^b	.684	.496	.073	.516	1.939
	Tpaths_ud	.045 ^b	.304	.762	.032	.467	2.141
	TSpaths_ud	.051 ^b	.483	.630	.051	.918	1.089
	AvgPL_ud	.060 ^b	.424	.672	.045	.514	1.945

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.516	
	Tpaths_ud	.467	
	TSpaths_ud	.918	
	AvgPL_ud	.514	

a. Dependent Variable: ECud

b. Predictors in the Model: (Constant), AvgGL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	AvgGL_ud
1	1	1.994	1.000	.00	.00
	2	.006	18.875	1.00	1.00

a. Dependent Variable: ECud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00847810599 9529	.01243101991 7130	.01098901098 9011	.00071283246 0462
Std. Predicted Value	-3.522	2.023	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00832302682 1017	.01245404686 7788	.01098514284 5382	.00072936677 6419
Residual	- .01102044805 8844	.00287326215 7664	.00000000000 0000	.00231941792 1516
Std. Residual	-4.725	1.232	.000	.994

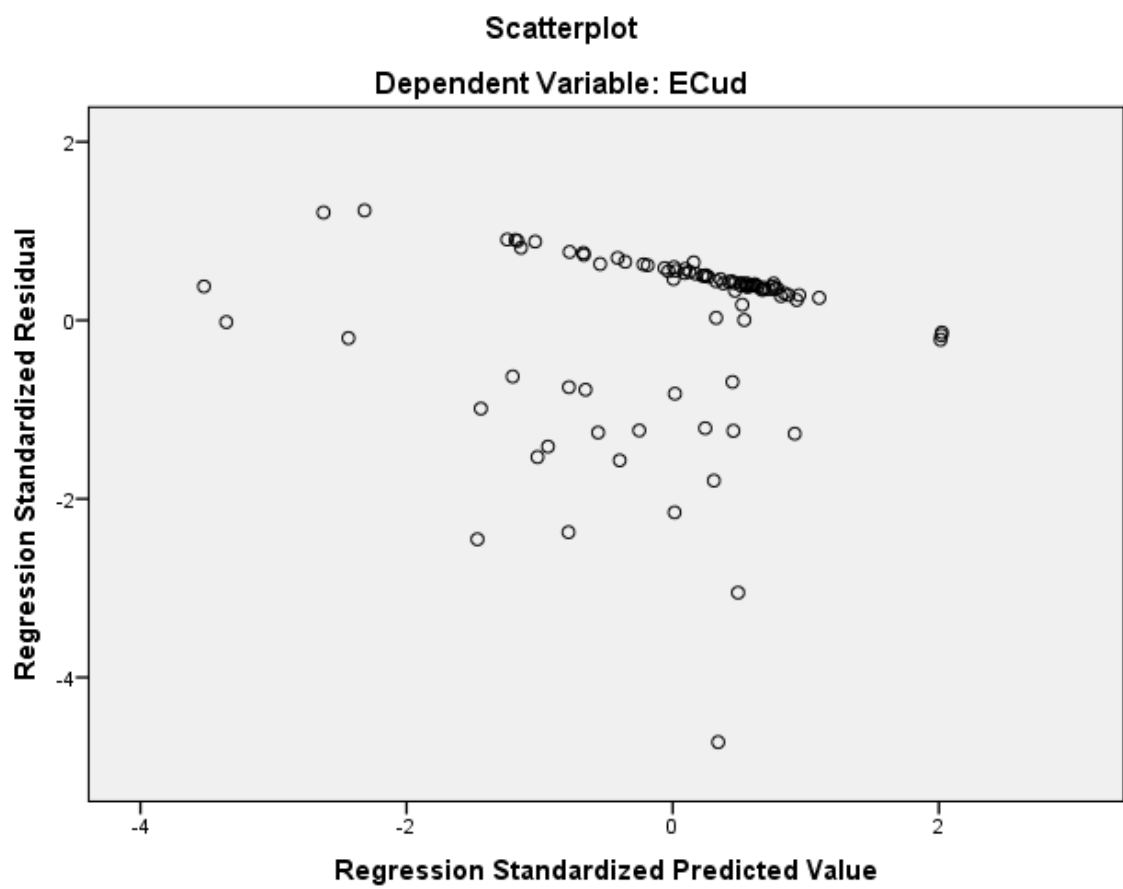
Stud. Residual	-4.754	1.278	.001	1.004
Deleted Residual	-	.00309146544	.00000386814	.00236406965
	.01115752011	8961	3629	7496
	5376			
Stud. Deleted Residual	-5.473	1.282	-.013	1.055
Mahal. Distance	.000	12.408	.989	2.071
Cook's Distance	.000	.141	.010	.022
Centered Leverage Value	.000	.138	.011	.023

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECud

Charts



REGRESSION

/MISSING LISTWISE

```

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCud

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression (Impact of Network Flow Variables on Powerlaw Distribution of Eigenvector Centrality)

Notes

Output Created		28-MAY-2015 12:58:05
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.21
	Memory Required	6320 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_12	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	TSpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.208 ^a	.043	.033	.00161506813 9526

a. Predictors: (Constant), TSpaths_ud

b. Dependent Variable: PL_EVCud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.027	.048 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: PL_EVCud

b. Predictors: (Constant), TSpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.017	.003		5.652	.000
	TSpaths_ud	-.549	.274	-.208	-2.007	.048

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_ud	1.000	1.000

a. Dependent Variable: PL_EVCud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	-.009 ^b	-.089	.929	-.009	.994	1.006
	Tpaths_ud	-.054 ^b	-.512	.610	-.055	.962	1.039
	AvgPL_ud	-.020 ^b	-.190	.850	-.020	.996	1.004
	AvgGL_ud	.069 ^b	.636	.527	.068	.918	1.089

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.994
	Tpaths_ud	.962
	AvgPL_ud	.996
	AvgGL_ud	.918

a. Dependent Variable: PL_EVCud

b. Predictors in the Model: (Constant), TSpats_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	TSpaths_ud
1	1	1.998	1.000	.00	.00
	2	.002	35.555	1.00	1.00

a. Dependent Variable: PL_EVCud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00939278863 3704	.01176079642 0276	.01098901098 9011	.00034161417 5866
Std. Predicted Value	-4.673	2.259	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00997987203 3000	.01202066894 6207	.01100134620 6300	.00031116031 4480
Residual	- .00402776710 6891	.00310418405 5701	.00000000000 0000	.00160607047 5425
Std. Residual	-2.494	1.922	.000	.994
Stud. Residual	-2.517	1.933	-.004	1.008
Deleted Residual	- .00410294532 7759	.00313909305 2596	- .00001233521 7289	.00165211473 9236

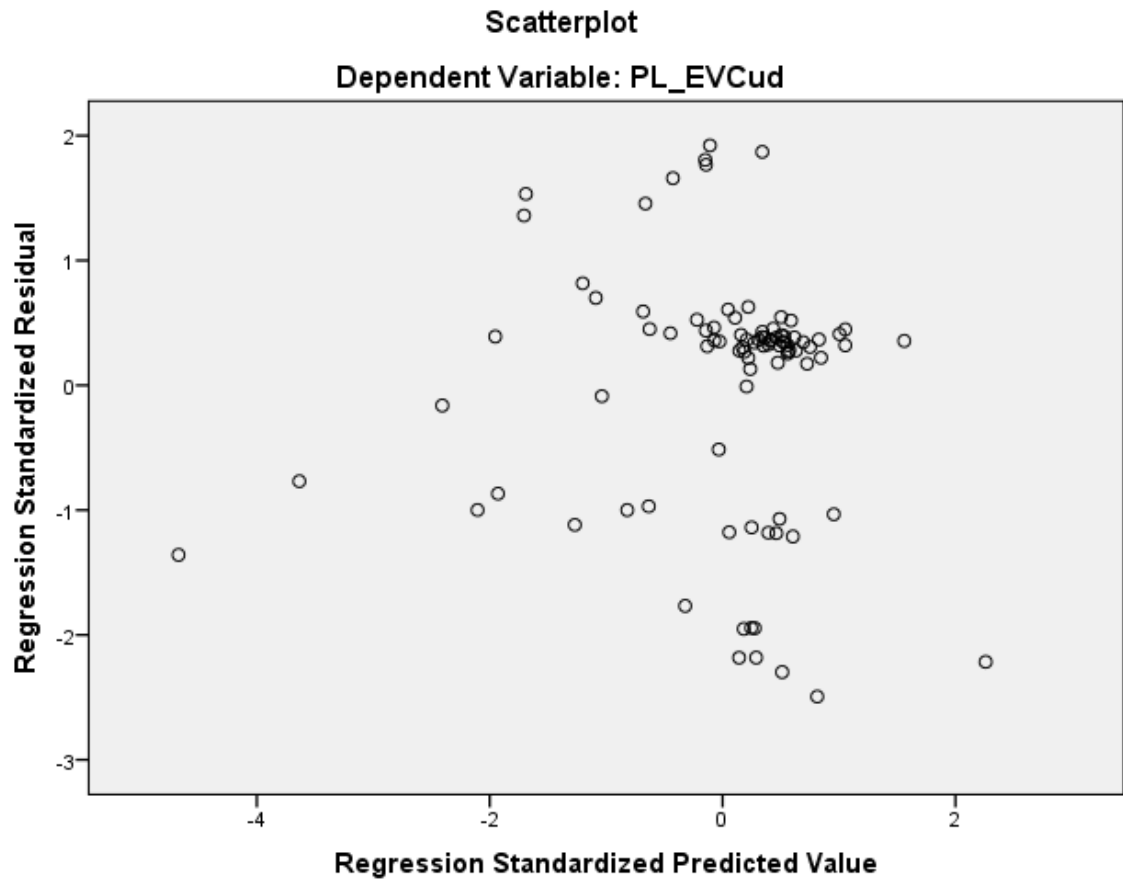
Stud. Deleted Residual	-2.597	1.964	-.008	1.021
Mahal. Distance	.001	21.833	.989	2.808
Cook's Distance	.000	.420	.015	.049
Centered Leverage Value	.000	.243	.011	.031

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression (Impact of Network Flow Variables on Eigenvector Centrality Total Paths per Node)

Notes

Output Created		28-MAY-2015 12:58:18
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

Syntax	Cases Used	Statistics are based on cases with no missing values for any variable used.
		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TpudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	6352 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_13	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgPL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	TSpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.327 ^a	.107	.097	.00389976541 1751
2	.941 ^b	.886	.884	.00139909066 5666
3	.944 ^c	.892	.888	.00137379527 1890
4	.951 ^d	.904	.900	.00130070599 1304

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgPL_ud

c. Predictors: (Constant), GD_ud, AvgPL_ud, TSpats_ud

d. Predictors: (Constant), GD_ud, AvgPL_ud, TSpats_ud, AvgGL_ud

e. Dependent Variable: EVCud_TpudN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.000	1	.000	10.691	.002 ^b
	Residual	.001	89	.000		
	Total	.002	90			
2	Regression	.001	2	.001	343.266	.000 ^c
	Residual	.000	88	.000		
	Total	.002	90			
3	Regression	.001	3	.000	238.773	.000 ^d
	Residual	.000	87	.000		
	Total	.002	90			
4	Regression	.001	4	.000	202.534	.000 ^e
	Residual	.000	86	.000		
	Total	.002	90			

a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgPL_ud

d. Predictors: (Constant), GD_ud, AvgPL_ud, TSpats_ud

e. Predictors: (Constant), GD_ud, AvgPL_ud, TSpats_ud, AvgGL_ud

Coefficients^a

Model	Unstandardized Coefficients	Standardized Coefficients	t	Sig.
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		B	Std. Error	Beta		
1	(Constant)	.006	.002		3.421	.001
	GD_ud	.481	.147	.327	3.270	.002
2	(Constant)	.004	.001		5.965	.000
	GD_ud	15.432	.611	10.507	25.261	.000
	AvgPL_ud	-14.760	.601	-10.218	-24.566	.000
3	(Constant)	.009	.003		3.346	.001
	GD_ud	15.256	.606	10.387	25.180	.000
	AvgPL_ud	-14.595	.595	-10.103	-24.512	.000
	TSpaths_ud	-.487	.236	-.074	-2.067	.042
4	(Constant)	.009	.003		3.398	.001
	GD_ud	15.060	.577	10.254	26.115	.000
	AvgPL_ud	-14.585	.564	-10.097	-25.873	.000
	TSpaths_ud	-.884	.253	-.134	-3.492	.001
	AvgGL_ud	.614	.185	.176	3.324	.001

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.007	134.004

	AvgPL_ud	.007	134.004
3	(Constant)		
	GD_ud	.007	136.710
	AvgPL_ud	.007	136.476
	TSpaths_ud	.976	1.025
4	(Constant)		
	GD_ud	.007	138.154
	AvgPL_ud	.007	136.480
	TSpaths_ud	.759	1.318
	AvgGL_ud	.400	2.502

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_ud	-1.783 ^b	-7.523	.000	-.626	.110	9.099
	TSpaths_ud	-.192 ^b	-1.937	.056	-.202	.994	1.006
	AvgPL_ud	-10.218 ^b	-24.566	.000	-.934	.007	134.004
	AvgGL_ud	.015 ^b	.109	.914	.012	.516	1.939
2	Tpaths_ud	-.231 ^c	-1.696	.093	-.179	.068	14.660
	TSpaths_ud	-.074 ^c	-2.067	.042	-.216	.976	1.025

	AvgGL_ud	.089 ^c	1.791	.077	.189	.514	1.946
3	Tpaths_ud	.218 ^d	.587	.559	.063	.009	110.015
	AvgGL_ud	.176 ^d	3.324	.001	.337	.400	2.502
4	Tpaths_ud	.604 ^e	1.667	.099	.178	.008	119.984

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	Tpaths_ud	.110
	TSpaths_ud	.994
	AvgPL_ud	.007
	AvgGL_ud	.516
2	Tpaths_ud	.005
	TSpaths_ud	.007
	AvgGL_ud	.007
3	Tpaths_ud	.002
	AvgGL_ud	.007
4	Tpaths_ud	.002

a. Dependent Variable: EVCud_TpudN

b. Predictors in the Model: (Constant), GD_ud

c. Predictors in the Model: (Constant), GD_ud, AvgPL_ud

d. Predictors in the Model: (Constant), GD_ud, AvgPL_ud, TSpaths_ud

e. Predictors in the Model: (Constant), GD_ud, AvgPL_ud, TSpats_ud, AvgGL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgPL_ud
1	1	1.969	1.000	.02	.02	
	2	.031	8.033	.98	.98	
2	1	2.959	1.000	.01	.00	.00
	2	.041	8.473	.96	.00	.00
	3	.000	113.866	.03	1.00	1.00
3	1	3.935	1.000	.00	.00	.00
	2	.064	7.859	.01	.00	.00
	3	.002	50.622	.95	.00	.00
	4	.000	132.860	.04	1.00	1.00
4	1	4.929	1.000	.00	.00	.00
	2	.066	8.643	.01	.00	.00
	3	.004	36.179	.17	.00	.00
	4	.001	59.164	.79	.00	.00
	5	.000	148.990	.04	1.00	.99

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
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		TSpaths_ud	AvgGL_ud
1	1		
	2		
2	1		
	2		
	3		
3	1	.00	
	2	.01	
	3	.96	
	4	.03	
4	1	.00	.00
	2	.01	.00
	3	.01	.86
	4	.95	.13
	5	.03	.00

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00291271461 1739	.01830003596 8423	.01098901098 9011	.00390244181 6488

Std. Predicted Value	-2.070	1.873	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00399681879 2075	.01889340765 7743	.01101676970 7435	.00388226851 3957
Residual	- .00428021699 1901	.00364086730 4057	.00000000000 0000	.00127147291 0186
Std. Residual	-3.291	2.799	.000	.978
Stud. Residual	-3.491	2.864	-.010	1.032
Deleted Residual	- .00481589371 3385	.00381036032 9226	- .00002775871 8424	.00142187036 6922
Stud. Deleted Residual	-3.746	2.993	-.015	1.066
Mahal. Distance	.717	27.318	3.956	4.155
Cook's Distance	.000	.512	.026	.080
Centered Leverage Value	.008	.304	.044	.046

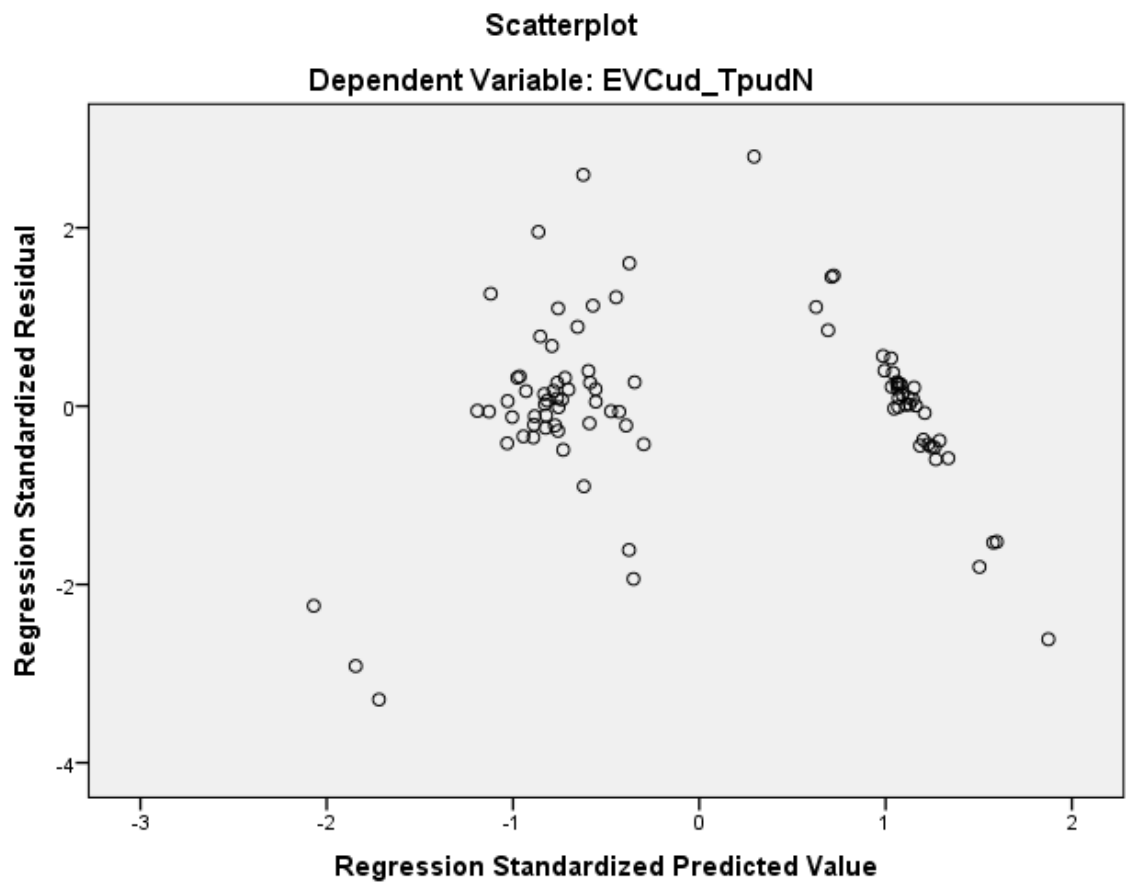
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91

Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression (Impact of Network Flow Variables on Eigenvector Centrality Total Shortest Paths per Node)

Notes

Output Created		28-MAY-2015 12:59:14
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TSpudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.17
	Memory Required	6400 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_14	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	TSpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	Tpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	AvgPL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
4		TSpaths_ud	Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TSpudN

Model Summary^e

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.362 ^a	.131	.121	.00022129703 2686
2	.446 ^b	.199	.181	.00021366107 9450
3	.507 ^c	.257	.231	.00020698871 3165
4	.501 ^d	.251	.234	.00020660263 7176

a. Predictors: (Constant), TSpaths_ud

b. Predictors: (Constant), TSpaths_ud, Tpaths_ud

c. Predictors: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud

d. Predictors: (Constant), Tpaths_ud, AvgPL_ud

e. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	13.436	.000 ^b
	Residual	.000	89	.000		

	Total	.000	90			
2	Regression	.000	2	.000	10.944	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	10.029	.000 ^d
	Residual	.000	87	.000		
	Total	.000	90			
4	Regression	.000	2	.000	14.763	.000 ^e
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), TSpaths_ud

c. Predictors: (Constant), TSpaths_ud, Tpaths_ud

d. Predictors: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud

e. Predictors: (Constant), Tpaths_ud, AvgPL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.012	.000		30.285	.000

	TSpaths_ud	-.137	.037	-.362	-3.666	.000
2	(Constant)	.013	.000		31.484	.000
	TSpaths_ud	-.118	.037	-.310	-3.193	.002
	Tpaths_ud	-.029	.011	-.266	-2.734	.008
3	(Constant)	.011	.001		16.637	.000
	TSpaths_ud	.065	.079	.170	.820	.415
	Tpaths_ud	-.234	.080	-2.117	-2.949	.004
	AvgPL_ud	.153	.059	1.836	2.601	.011
4	(Constant)	.012	.000		83.729	.000
	Tpaths_ud	-.176	.035	-1.590	-4.970	.000
	AvgPL_ud	.110	.027	1.320	4.125	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_ud	1.000	1.000
2	(Constant)		
	TSpaths_ud	.962	1.039
	Tpaths_ud	.962	1.039
3	(Constant)		
	TSpaths_ud	.199	5.035
	Tpaths_ud	.017	60.347

	AvgPL_ud	.017	58.319
4	(Constant)		
	Tpaths_ud	.083	12.037
	AvgPL_ud	.083	12.037

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	-.228 ^b	-2.360	.021	-.244	.994	1.006
	Tpaths_ud	-.266 ^b	-2.734	.008	-.280	.962	1.039
	AvgPL_ud	-.228 ^b	-2.356	.021	-.244	.996	1.004
	AvgGL_ud	-.248 ^b	-2.476	.015	-.255	.918	1.089
2	GD_ud	.721 ^c	1.504	.136	.159	.039	25.574
	AvgPL_ud	1.836 ^c	2.601	.011	.269	.017	58.319
	AvgGL_ud	-.109 ^c	-.762	.448	-.081	.446	2.244
3	GD_ud	-4.200 ^d	-3.009	.003	-.309	.004	249.228
	AvgGL_ud	-.306 ^d	-2.056	.043	-.216	.372	2.688
4	GD_ud	-2.181 ^e	-1.878	.064	-.197	.006	163.203
	AvgGL_ud	-.194 ^e	-1.444	.152	-.153	.467	2.142
	TSpaths_ud	.170 ^e	.820	.415	.088	.199	5.035

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.994
	Tpaths_ud	.962
	AvgPL_ud	.996
	AvgGL_ud	.918
2	GD_ud	.038
	AvgPL_ud	.017
	AvgGL_ud	.446
3	GD_ud	.002
	AvgGL_ud	.014
4	GD_ud	.005
	AvgGL_ud	.075
	TSpaths_ud	.017

a. Dependent Variable: EVCud_TSpudN

b. Predictors in the Model: (Constant), TSpaths_ud

c. Predictors in the Model: (Constant), TSpaths_ud, Tpaths_ud

d. Predictors in the Model: (Constant), TSpaths_ud, Tpaths_ud, AvgPL_ud

e. Predictors in the Model: (Constant), Tpaths_ud, AvgPL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	TSpats_ud	Tpaths_ud
1	1	1.998	1.000	.00	.00	
	2	.002	35.555	1.00	1.00	
2	1	2.975	1.000	.00	.00	.00
	2	.023	11.311	.02	.02	.99
	3	.002	43.439	.98	.98	.00
3	1	3.947	1.000	.00	.00	.00
	2	.050	8.862	.00	.00	.00
	3	.003	37.503	.13	.04	.07
	4	.000	137.618	.86	.96	.93
4	1	2.964	1.000	.00		.00
	2	.034	9.370	.44		.00
	3	.002	40.060	.55		1.00

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions
		AvgPL_ud
1	1	
	2	
2	1	

3	2	
	3	
	1	.00
	2	.01
	3	.06
4	4	.93
	1	.00
	2	.05
	3	.95

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01028935518 1158	.01121684350 0733	.01098901098 9011	.00011833533 8759
Std. Predicted Value	-5.912	1.925	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01060798764 2288	.01123183127 4927	.01099642090 1013	.00009838775 8807
Residual	- .00115828623 5295	.00128492107 6149	.00000000000 0000	.00020429415 5368

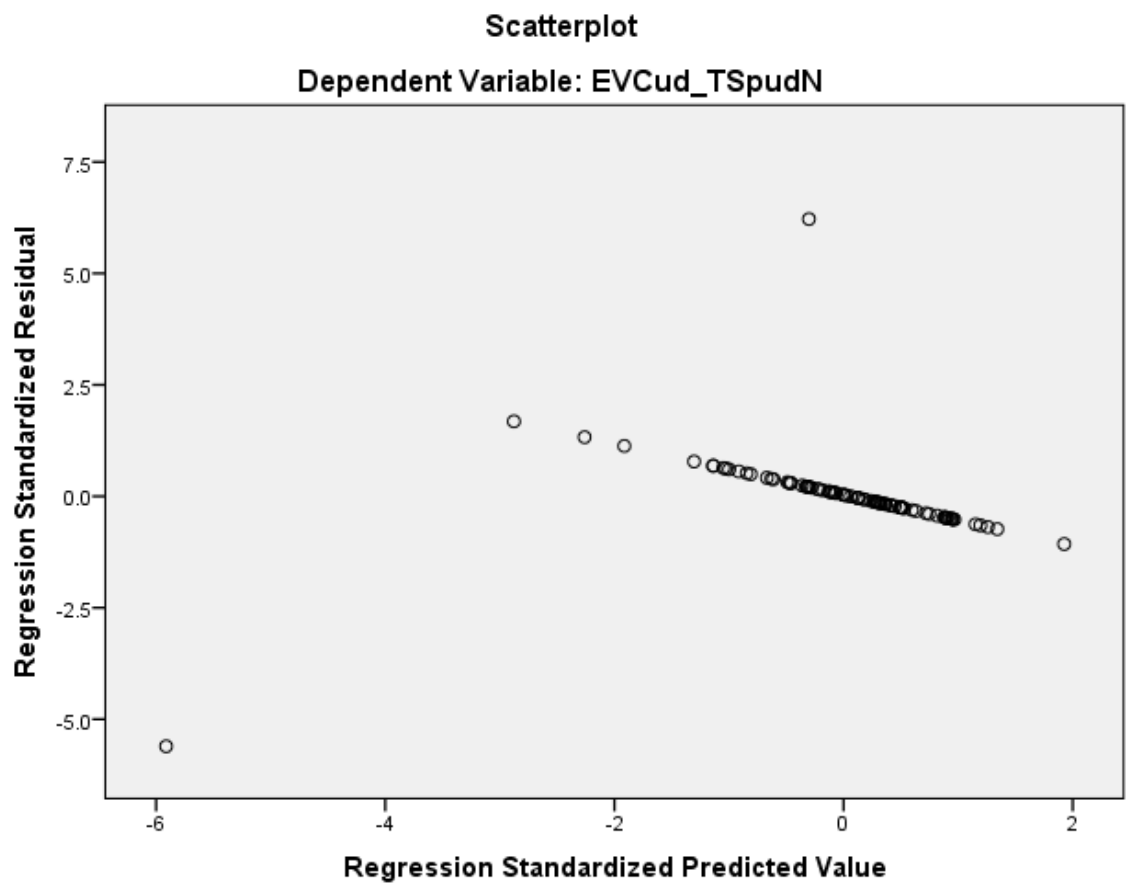
Std. Residual	-5.606	6.219	.000	.989
Stud. Residual	-7.295	6.330	-.015	1.116
Deleted Residual	-	.00133099628	-	.00026806876
	.00196134275	1467	.00000740991	0342
	7568		2002	
Stud. Deleted Residual	-11.539	8.528	-.037	1.580
Mahal. Distance	.026	35.861	1.978	4.298
Cook's Distance	.000	12.300	.144	1.289
Centered Leverage Value	.000	.398	.022	.048

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TSpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression (Impact of Network Flow Variables on Eigenvector Centrality Total Shortest Paths per Node) after eliminating influential data outliers

Notes

Output Created	28-MAY-2015 13:01:36	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	90
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TSpudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.06
	Elapsed Time	00:00:00.06
	Memory Required	6432 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_15	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 12:54:24	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax	REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_TpudN /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.	
Resources	Processor Time	00:00:00.22

	Elapsed Time	00:00:00.26
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_6	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	GD_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgPL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_TpudN

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.384 ^a	.147	.138	.00333908565 8084
2	.713 ^b	.509	.498	.00254820820 5520

a. Predictors: (Constant), GD_ud

b. Predictors: (Constant), GD_ud, AvgPL_ud

c. Dependent Variable: PL_TpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	15.375	.000 ^b
	Residual	.001	89	.000		
	Total	.001	90			
2	Regression	.001	2	.000	45.609	.000 ^c
	Residual	.001	88	.000		
	Total	.001	90			

a. Dependent Variable: PL_TpudN

b. Predictors: (Constant), GD_ud

c. Predictors: (Constant), GD_ud, AvgPL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.001		3.896	.000
	GD_ud	.494	.126	.384	3.921	.000
2	(Constant)	.004	.001		3.915	.000
	GD_ud	9.418	1.113	7.320	8.465	.000
	AvgPL_ud	-8.811	1.094	-6.962	-8.051	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	GD_ud	1.000	1.000
2	(Constant)		
	GD_ud	.007	134.004
	AvgPL_ud	.007	134.004

a. Dependent Variable: PL_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	Tpaths_ud	-1.277 ^b	-4.838	.000	-.458	.110	9.099
	TSpaths_ud	-.182 ^b	-1.884	.063	-.197	.994	1.006
	AvgPL_ud	-6.962 ^b	-8.051	.000	-.651	.007	134.004
	AvgGL_ud	-.025 ^b	-.180	.857	-.019	.516	1.939
2	Tpaths_ud	-.257 ^c	-.897	.372	-.096	.068	14.660
	TSpaths_ud	-.103 ^c	-1.369	.174	-.145	.976	1.025
	AvgGL_ud	.025 ^c	.240	.811	.026	.514	1.946

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	Tpaths_ud	.110	
	TSpaths_ud	.994	
	AvgPL_ud	.007	
	AvgGL_ud	.516	
2	Tpaths_ud	.005	

TSpaths_ud	.007
AvgGL_ud	.007

- a. Dependent Variable: PL_TpudN
- b. Predictors in the Model: (Constant), GD_ud
- c. Predictors in the Model: (Constant), GD_ud, AvgPL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	GD_ud	AvgPL_ud
1	1	1.969	1.000	.02	.02	
	2	.031	8.033	.98	.98	
2	1	2.959	1.000	.01	.00	.00
	2	.041	8.473	.96	.00	.00
	3	.000	113.866	.03	1.00	1.00

- a. Dependent Variable: PL_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
--	---------	---------	------	----------------

Predicted Value	.00586868450 0456	.01726188883 1854	.01098901098 9011	.00256539467 7968
Std. Predicted Value	-1.996	2.445	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00645834021 2703	.01777436956 7633	.01100836944 0500	.00255394406 7721
Residual	- .00591361895 2036	.01034349389 3743	.00000000000 0000	.00251973571 1811
Std. Residual	-2.321	4.059	.000	.989
Stud. Residual	-2.434	4.118	-.004	1.013
Deleted Residual	- .00650546560 0640	.01064470969 1405	- .00001935845 1489	.00264600461 5200
Stud. Deleted Residual	-2.506	4.557	.002	1.051
Mahal. Distance	.444	12.325	1.978	1.708
Cook's Distance	.000	.198	.017	.043
Centered Leverage Value	.005	.137	.022	.019

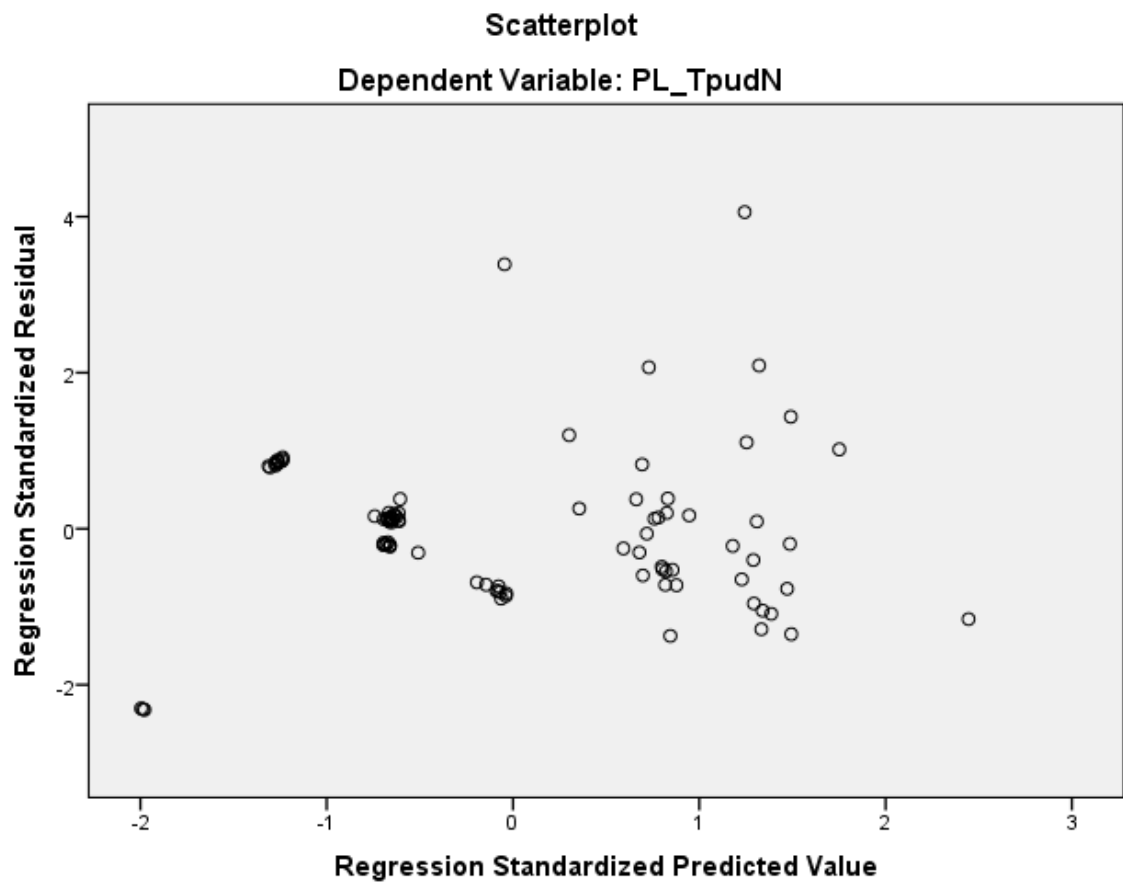
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91

Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_TSpudN

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 12:55:05
Comments		
Input	Active Dataset	DataSet1
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT PL_TSpudN
		/METHOD=STEPWISE GD_ud
		Tpaths_ud TSpaths_ud AvgPL_ud
		AvgGL_ud
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.03
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	Additional Memory	
	Required for Residual	0 bytes
Variables Created or Modified	Plots	
	COO_7	Cook's Distance

Warnings

No variables were entered into the equation.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT S_ud

/METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 12:55:16
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Input	Active Dataset	DataSet1
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	Weight	<none>

Missing Value Handling	Split File	<none>
	N of Rows in Working Data File	91
	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT S_ud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.22
	Elapsed Time	00:00:00.19
	Memory Required	6160 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Created or Modified	COO_8	Cook's Distance
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Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	TSpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: S_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.730 ^a	.533	.528	.00205139366 1969
2	.837 ^b	.701	.694	.00165238067 6026

a. Predictors: (Constant), TSpaths_ud

b. Predictors: (Constant), TSpaths_ud, AvgGL_ud

c. Dependent Variable: S_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	101.727	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.001	2	.000	102.981	.000 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: S_ud

b. Predictors: (Constant), TSpaths_ud

c. Predictors: (Constant), TSpaths_ud, AvgGL_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.050	.004		12.942	.000
	TSpaths_ud	-3.506	.348	-.730	-10.086	.000
2	(Constant)	.044	.003		13.843	.000
	TSpaths_ud	-4.091	.292	-.852	-14.003	.000
	AvgGL_ud	1.085	.155	.427	7.012	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	TSpaths_ud	1.000	1.000
2	(Constant)		
	TSpaths_ud	.918	1.089
	AvgGL_ud	.918	1.089

a. Dependent Variable: S_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.261 ^b	3.858	.000	.380	.994	1.006
	Tpaths_ud	.233 ^b	3.338	.001	.335	.962	1.039
	AvgPL_ud	.265 ^b	3.941	.000	.387	.996	1.004
	AvgGL_ud	.427 ^b	7.012	.000	.599	.918	1.089
2	GD_ud	-.110 ^c	-1.239	.219	-.132	.433	2.312
	Tpaths_ud	-.135 ^c	-1.600	.113	-.169	.467	2.142
	AvgPL_ud	-.095 ^c	-1.076	.285	-.115	.438	2.284

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.994	
	Tpaths_ud	.962	
	AvgPL_ud	.996	
	AvgGL_ud	.918	
2	GD_ud	.400	
	Tpaths_ud	.446	

AvgPL_ud	.404
----------	------

- a. Dependent Variable: S_ud
- b. Predictors in the Model: (Constant), TSpats_ud
- c. Predictors in the Model: (Constant), TSpats_ud, AvgGL_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	TSpats_ud	AvgGL_ud
1	1	1.998	1.000	.00	.00	
	2	.002	35.555	1.00	1.00	
2	1	2.992	1.000	.00	.00	.00
	2	.007	20.892	.08	.07	1.00
	3	.002	43.515	.92	.93	.00

- a. Dependent Variable: S_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	- .00082759384 5315	.01653813943 2669	.01098901098 9011	.00249966670 6534

Std. Predicted Value	-4.727	2.220	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	- .00184101273 7714	.01609671488 4043	.01098661679 5744	.00253060008 3317
Residual	- .00445033889 2639	.00581265287 4738	.00000000000 0000	.00163391774 2620
Std. Residual	-2.693	3.518	.000	.989
Stud. Residual	-2.917	3.649	.001	1.017
Deleted Residual	- .00521992892 0269	.00625407649 2041	.00000239419 3267	.00173347432 6955
Stud. Deleted Residual	-3.052	3.938	.008	1.050
Mahal. Distance	.012	27.044	1.978	4.192
Cook's Distance	.000	.490	.022	.079
Centered Leverage Value	.000	.300	.022	.047

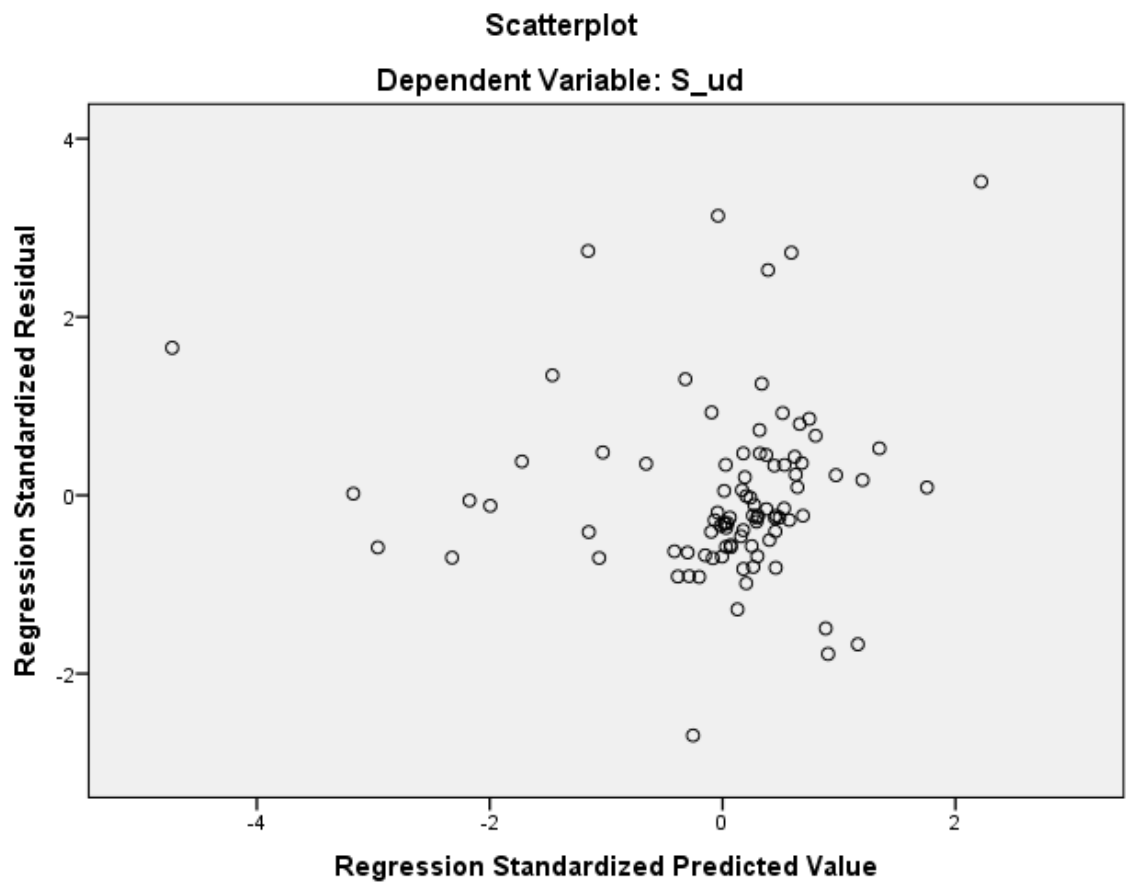
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91

Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: S_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT R_ud

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 12:55:54
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R
		ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT R_ud
		/METHOD=STEPWISE GD_ud
		Tpaths_ud TSpaths_ud AvgPL_ud
		AvgGL_ud
		/SCATTERPLOT=(*ZRESID
		,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.16
	Memory Required	6192 bytes
	Additional Memory	
	Required for Residual	0 bytes
Plots		
Variables Created or Modified	COO_9	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	AvgGL_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	TSpats_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: R_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.667 ^a	.445	.439	.00054242346 4440
2	.788 ^b	.621	.612	.00045101495 3456

a. Predictors: (Constant), AvgGL_ud

b. Predictors: (Constant), AvgGL_ud, TSpats_ud

c. Dependent Variable: R_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	71.402	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	72.005	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: R_ud

b. Predictors: (Constant), AvgGL_ud

c. Predictors: (Constant), AvgGL_ud, TSpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.006	.001		12.017	.000

	AvgGL_ud	.411	.049	.667	8.450	.000
2	(Constant)	.011	.001		12.920	.000
	AvgGL_ud	.489	.042	.792	11.562	.000
	TSpaths_ud	-.509	.080	-.437	-6.382	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	AvgGL_ud	1.000	1.000
2	(Constant)		
	AvgGL_ud	.918	1.089
	TSpaths_ud	.918	1.089

a. Dependent Variable: R_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	.351 ^b	3.375	.001	.339	.516	1.939
	Tpaths_ud	.133 ^b	1.151	.253	.122	.467	2.141
	TSpaths_ud	-.437 ^b	-6.382	.000	-.563	.918	1.089

	AvgPL_ud	.346 ^b	3.312	.001	.333	.514	1.945
2	GD_ud	.139 ^c	1.403	.164	.149	.433	2.312
	Tpaths_ud	.119 ^c	1.247	.216	.133	.467	2.142
	AvgPL_ud	.142 ^c	1.437	.154	.152	.438	2.284

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	GD_ud	.516
	Tpaths_ud	.467
	TSpaths_ud	.918
	AvgPL_ud	.514
2	GD_ud	.400
	Tpaths_ud	.446
	AvgPL_ud	.404

a. Dependent Variable: R_ud

b. Predictors in the Model: (Constant), AvgGL_ud

c. Predictors in the Model: (Constant), AvgGL_ud, TSpaths_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

			Index	(Constant)	AvgGL_ud	TSpaths_ud
1	1	1.994	1.000	.00	.00	
	2	.006	18.875	1.00	1.00	
2	1	2.992	1.000	.00	.00	.00
	2	.007	20.892	.08	1.00	.07
	3	.002	43.515	.92	.00	.93

a. Dependent Variable: R_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00868348311 6329	.01254614628 8514	.01098901098 9011	.00057051271 9119
Std. Predicted Value	-4.041	2.729	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00889807380 7359	.01257634256 0351	.01100012747 8258	.00056592011 7124
Residual	- .00132222543 4706	.00109313102 4390	.00000000000 0000	.00044597552 2063
Std. Residual	-2.932	2.424	.000	.989
Stud. Residual	-3.086	2.467	-.012	1.025

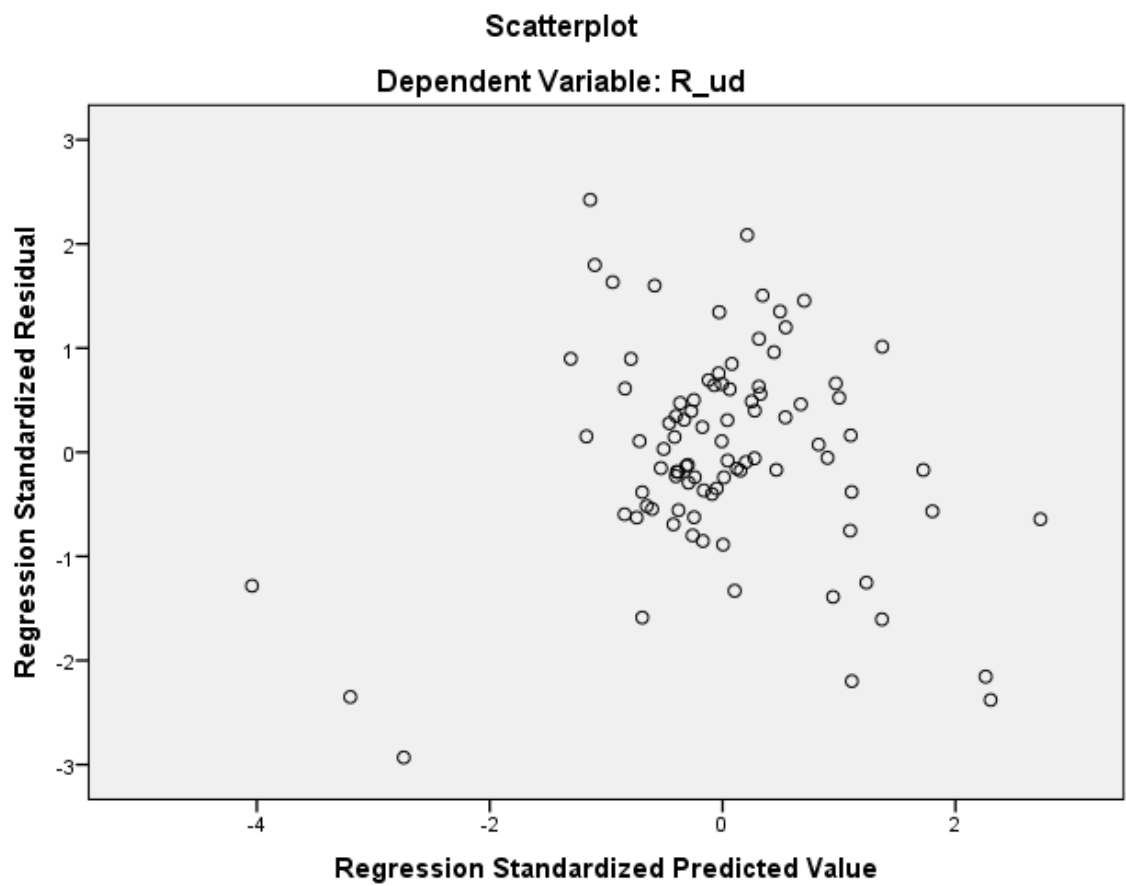
Deleted Residual	- .00146545539 6101	.00113277242 0533	- .00001111648 9247	.00048029435 0966
Stud. Deleted Residual	-3.250	2.543	-.015	1.043
Mahal. Distance	.012	27.044	1.978	4.192
Cook's Distance	.000	.422	.028	.083
Centered Leverage Value	.000	.300	.022	.047

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: R_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT SMSP_ud

/METHOD=STEPWISE GD_ud Tpaths_ud TSpaths_ud AvgPL_ud AvgGL_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

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Comments		
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT SMSP_ud /METHOD=STEPWISE GD_ud Tpaths_ud TSpats_ud AvgPL_ud AvgGL_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
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	Memory Required	6240 bytes
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Variables Created or Modified	COO_10	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Tpaths_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: SMSP_ud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.249 ^a	.062	.052	.01328056256 7546

a. Predictors: (Constant), Tpaths_ud

b. Dependent Variable: SMSP_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	5.905	.017 ^b
	Residual	.016	89	.000		
	Total	.017	90			

a. Dependent Variable: SMSP_ud

b. Predictors: (Constant), Tpaths_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.007	.007		-.891	.375
	Tpaths_ud	1.596	.657	.249	2.430	.017

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	Tpaths_ud	1.000	1.000

a. Dependent Variable: SMSP_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	GD_ud	-.013 ^b	-.040	.968	-.004	.110	9.099
	TSpaths_ud	-.029 ^b	-.279	.781	-.030	.962	1.039
	AvgPL_ud	.056 ^b	.156	.876	.017	.083	12.037
	AvgGL_ud	-.110 ^b	-.732	.466	-.078	.467	2.141

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	GD_ud	.110	
	TSpaths_ud	.962	
	AvgPL_ud	.083	
	AvgGL_ud	.467	

a. Dependent Variable: SMSP_ud

b. Predictors in the Model: (Constant), Tpaths_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Tpaths_ud
1	1	1.982	1.000	.01	.01
	2	.018	10.463	.99	.99

a. Dependent Variable: SMSP_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00379987875 9310	.02162570878 8633	.01098901098 9011	.00340185425 9175
Std. Predicted Value	-2.113	3.127	.000	1.000
Standard Error of Predicted Value	.001	.005	.002	.001
Adjusted Predicted Value	.00404505571 3505	.02386707626 2832	.01103163118 4697	.00351930647 9604
Residual	- .01649657264 3518	.06189055368 3043	.00000000000 0000	.01320657557 0877
Std. Residual	-1.242	4.660	.000	.994
Stud. Residual	-1.324	4.689	-.002	1.007
Deleted Residual	- .01873794011 7717	.06265588104 7249	- .00004262019 5686	.01353630919 9198

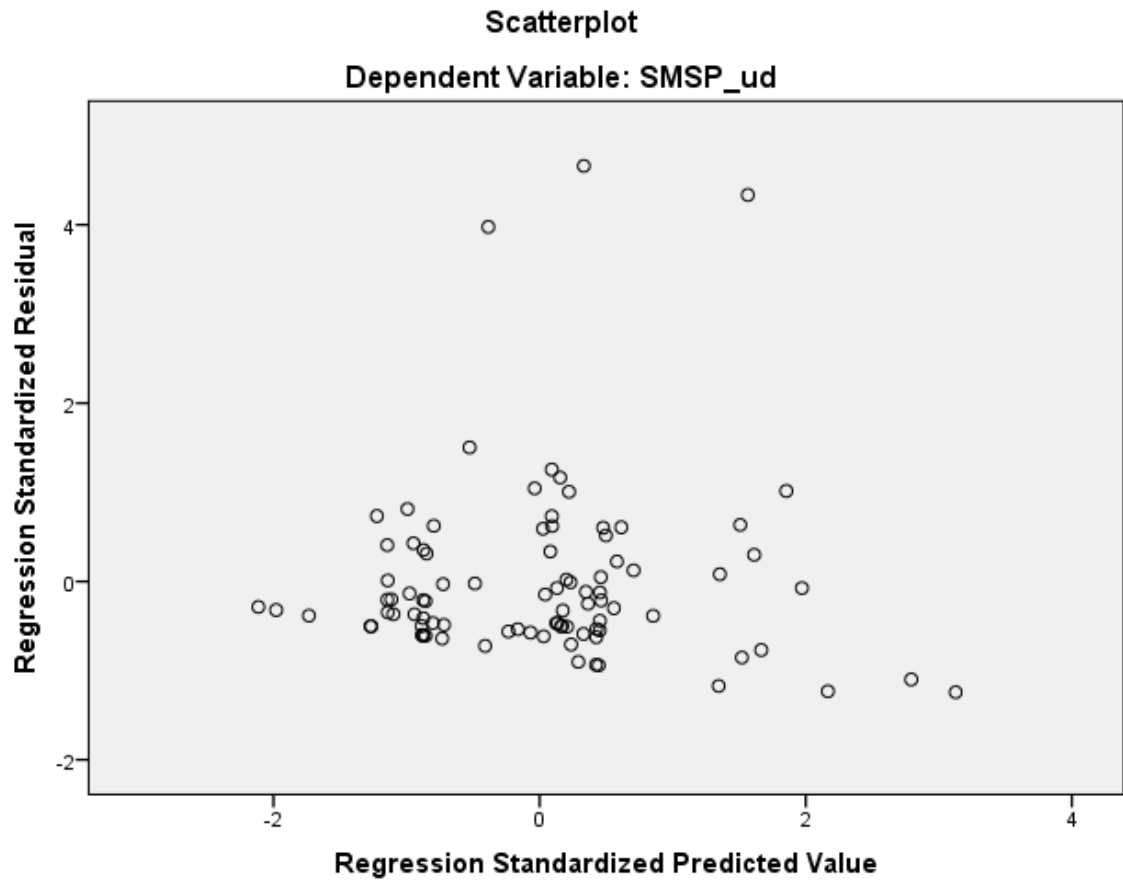
Stud. Deleted Residual	-1.330	5.373	.017	1.088
Mahal. Distance	.001	9.776	.989	1.592
Cook's Distance	.000	.388	.013	.046
Centered Leverage Value	.000	.109	.011	.018

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: SMSP_ud

Charts



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/READNAMES=on

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EXECUTE.

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REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT GD_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes	
Output Created	28-MAY-2015 12:47:42
Comments	

Input	Active Dataset	DataSet1	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on cases with no missing values for any variable used.	
Syntax		REGRESSION	
		/MISSING LISTWISE	
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL	
		/CRITERIA=PIN(.05) POUT(.10)	
		/NOORIGIN	
		/DEPENDENT GD_ud	
		/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud	
Resources		/SCATTERPLOT=(*ZRESID ,*ZPRED)	
		/SAVE COOK.	
	Processor Time		00:00:00.37
	Elapsed Time		00:00:00.51
	Memory Required	5872 bytes	

	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

[DataSet1]

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: GD_ud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.645 ^a	.417	.410	.002146552378943

a. Predictors: (Constant), R_ud

b. Dependent Variable: GD_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	63.535	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			

a. Dependent Variable: GD_ud

b. Predictors: (Constant), R_ud

Coefficients^a

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

1	(Constant)	-.016	.003		-4.760	.000
	R_ud	2.491	.312	.645	7.971	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000

a. Dependent Variable: GD_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	.127 ^b	1.423	.158	.150	.811	1.233
	PL_TSpudN	-.099 ^b	-1.224	.224	-.129	.993	1.007
	S_ud	-.137 ^b	-1.337	.185	-.141	.615	1.625
	SMSP_ud	.011 ^b	.121	.904	.013	.879	1.138

Excluded Variables^a

Model	Collinearity Statistics
	Minimum Tolerance

1	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879

a. Dependent Variable: GD_ud

b. Predictors in the Model: (Constant), R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_ud
1	1	1.998	1.000	.00	.00
	2	.002	30.551	1.00	1.00

a. Dependent Variable: GD_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00380509486	.01414559315	.01098901098	.00180354812
	4219	8901	9011	1925
Std. Predicted Value	-3.983	1.750	.000	1.000

Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00381886935 7929	.01420436799 5262	.01098866742 5079	.00180168669 9573
Residual	- .00422680238 2618	.00645365752 2798	.00000000000 0000	.00213459377 6821
Std. Residual	-1.969	3.007	.000	.994
Stud. Residual	-1.982	3.077	.000	1.004
Deleted Residual	- .00428161351 0102	.00675793224 9457	.00000034356 3932	.00217745799 4645
Stud. Deleted Residual	-2.016	3.236	.002	1.016
Mahal. Distance	.000	15.866	.989	2.835
Cook's Distance	.000	.223	.010	.025
Centered Leverage Value	.000	.176	.011	.031

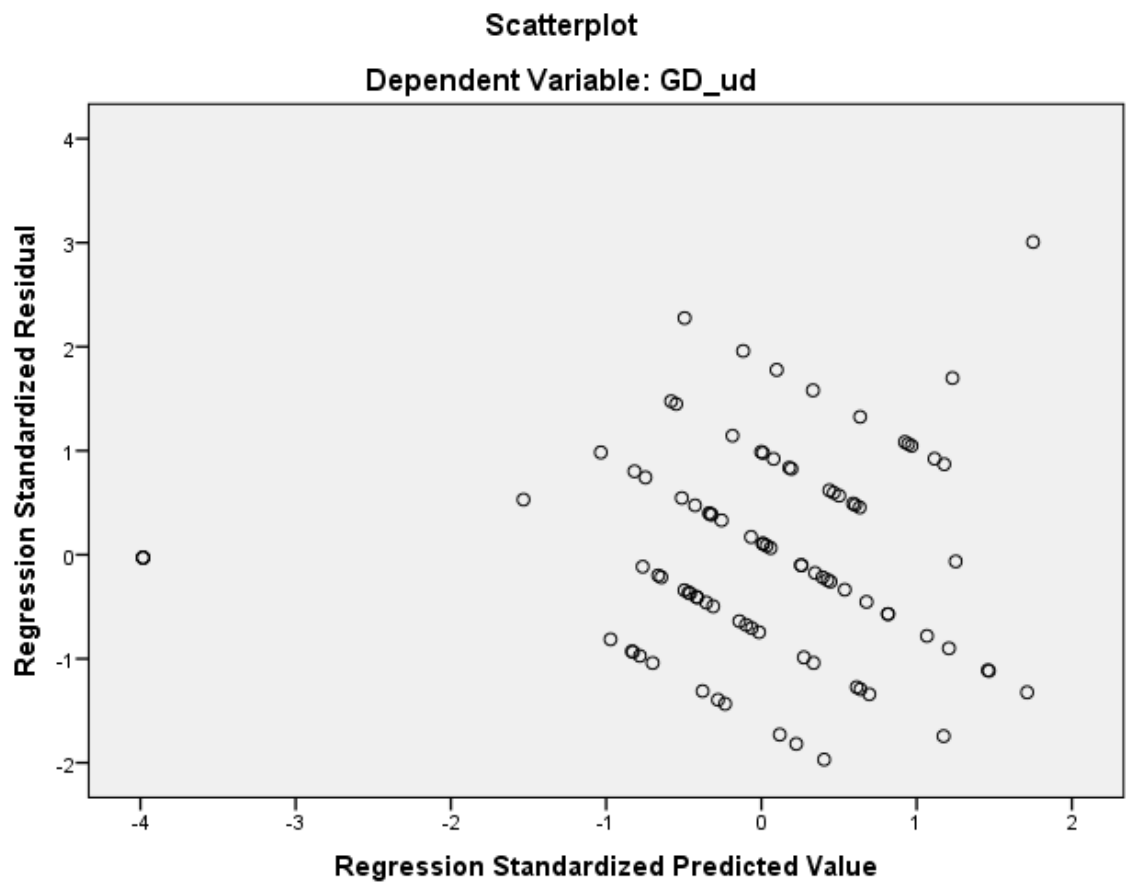
Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91

Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: GD_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT Tpaths_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 12:48:29
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT Tpaths_ud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.22
	Memory Required	5920 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: Tpaths_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.549 ^a	.301	.294	.00179166749 7648
2	.640 ^b	.410	.396	.00165661452 5196

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, S_ud

c. Dependent Variable: Tpaths_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	38.410	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	30.515	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: Tpaths_ud

b. Predictors: (Constant), R_ud

c. Predictors: (Constant), R_ud, S_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.007	.003		-2.358	.021

	R_ud	1.616	.261	.549	6.198	.000
2	(Constant)	-.012	.003		-4.037	.000
	R_ud	2.382	.307	.809	7.747	.000
	S_ud	-.299	.075	-.419	-4.013	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.615	1.625
	S_ud	.615	1.625

a. Dependent Variable: Tpaths_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.021 ^b	-.211	.833	-.023	.811	1.233
	PL_TSpudN	-.081 ^b	-.905	.368	-.096	.993	1.007
	S_ud	-.419 ^b	-4.013	.000	-.393	.615	1.625

	SMSP_ud	.066 ^b	.700	.486	.074	.879	1.138
2	PL_TpudN	-.007 ^c	-.081	.936	-.009	.810	1.235
	PL_TSpudN	-.125 ^c	-1.522	.132	-.161	.977	1.024
	SMSP_ud	.082 ^c	.939	.350	.100	.877	1.140

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879
2	PL_TpudN	.546
	PL_TSpudN	.602
	SMSP_ud	.575

a. Dependent Variable: Tpaths_ud

b. Predictors in the Model: (Constant), R_ud

c. Predictors in the Model: (Constant), R_ud, S_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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			Index	(Constant)	R_ud	S_ud
1	1	1.998	1.000	.00	.00	
	2	.002	30.551	1.00	1.00	
2	1	2.958	1.000	.00	.00	.00
	2	.040	8.561	.02	.01	.68
	3	.001	44.409	.98	.99	.31

a. Dependent Variable: Tpaths_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00620292592 7937	.01383270137 0120	.01098901098 9011	.00136418534 7106
Std. Predicted Value	-3.508	2.085	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00613801600 4115	.01395934727 0429	.01097388767 2033	.00137688373 8678
Residual	- .00287209963 4260	.00436471309 5129	.00000000000 0000	.00163810428 4728
Std. Residual	-1.734	2.635	.000	.989
Stud. Residual	-1.753	2.851	.004	1.010

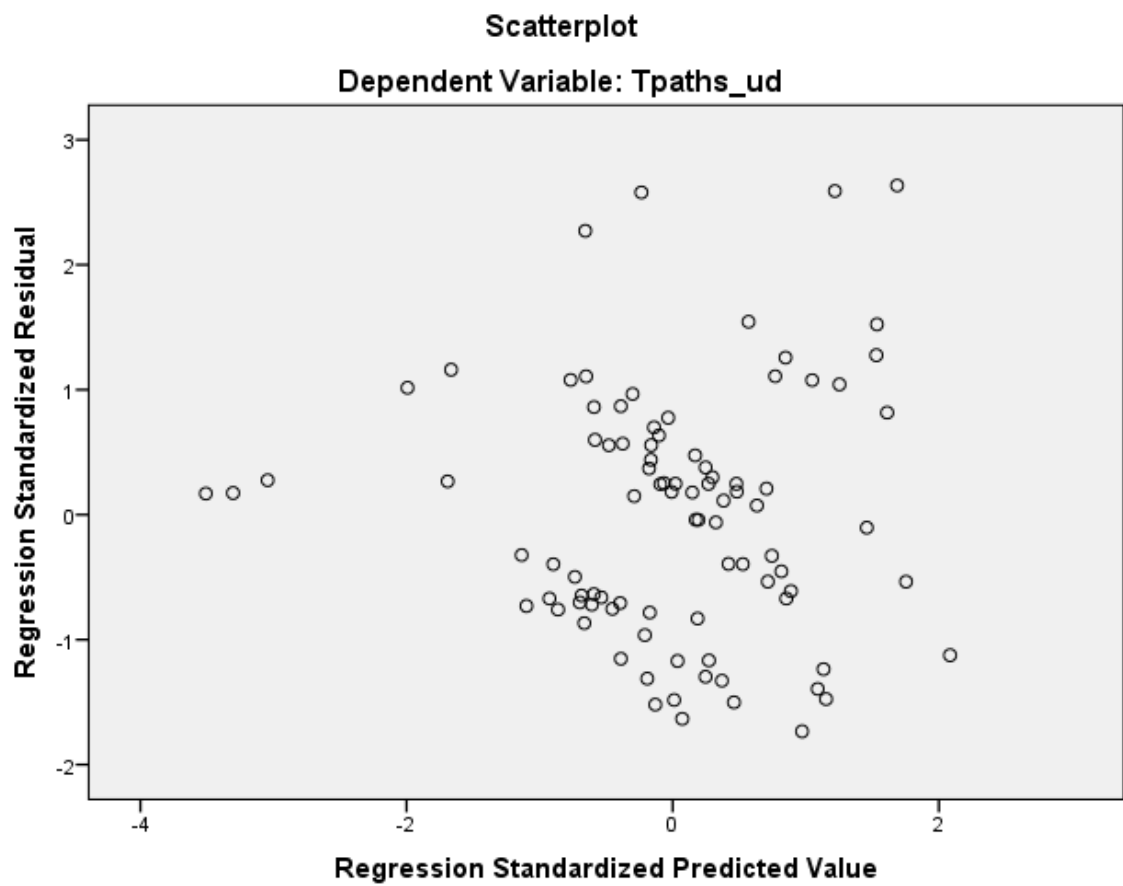
Deleted Residual	- .00293760909 6989	.00510910525 9180	.00001512331 6978	.00171119373 0243
Stud. Deleted Residual	-1.775	2.975	.008	1.023
Mahal. Distance	.017	20.754	1.978	3.769
Cook's Distance	.000	.462	.015	.052
Centered Leverage Value	.000	.231	.022	.042

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: Tpaths_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL


```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT TSpaths_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

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Comments		
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT TSpaths_ud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.18
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
3	SMSP_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: TSpaths_ud

Model Summary^d

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.730 ^a	.533	.528	.00042731710 2310
2	.793 ^b	.629	.620	.00038340328 7172
3	.804 ^c	.647	.634	.00037611598 2130

a. Predictors: (Constant), S_ud

b. Predictors: (Constant), S_ud, R_ud

c. Predictors: (Constant), S_ud, R_ud, SMSP_ud

d. Dependent Variable: TSpats_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	101.727	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	74.460	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			
3	Regression	.000	3	.000	53.063	.000 ^d

Residual	.000	87	.000		
Total	.000	90			

a. Dependent Variable: TSpaths_ud

b. Predictors: (Constant), S_ud

c. Predictors: (Constant), S_ud, R_ud

d. Predictors: (Constant), S_ud, R_ud, SMSP_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.013	.000		73.739	.000
	S_ud	-.152	.015	-.730	-10.086	.000
2	(Constant)	.010	.001		13.941	.000
	S_ud	-.203	.017	-.974	-11.763	.000
	R_ud	.338	.071	.393	4.749	.000
3	(Constant)	.010	.001		14.278	.000
	S_ud	-.205	.017	-.982	-12.074	.000
	R_ud	.299	.072	.348	4.143	.000
	SMSP_ud	.007	.003	.143	2.108	.038

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	S_ud	1.000	1.000
2	(Constant)		
	S_ud	.615	1.625
	R_ud	.615	1.625
3	(Constant)		
	S_ud	.614	1.629
	R_ud	.575	1.738
	SMSP_ud	.877	1.140

a. Dependent Variable: TSpaths_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	.006 ^b	.073	.942	.008	.912	1.096
	PL_TSpudN	-.005 ^b	-.067	.947	-.007	.998	1.002
	R_ud	.393 ^b	4.749	.000	.452	.615	1.625

	SMSP_ud	.215 ^b	3.008	.003	.305	.938	1.066
2	PL_TpudN	-.116 ^c	-1.619	.109	-.171	.810	1.235
	PL_TSpudN	-.051 ^c	-.767	.445	-.082	.977	1.024
	SMSP_ud	.143 ^c	2.108	.038	.220	.877	1.140
3	PL_TpudN	-.120 ^d	-1.718	.089	-.182	.809	1.236
	PL_TSpudN	-.057 ^d	-.880	.381	-.094	.975	1.026

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN	.912	
	PL_TSpudN	.998	
	R_ud	.615	
	SMSP_ud	.938	
2	PL_TpudN	.546	
	PL_TSpudN	.602	
	SMSP_ud	.575	
3	PL_TpudN	.517	
	PL_TSpudN	.566	

a. Dependent Variable: TSpats_ud

b. Predictors in the Model: (Constant), S_ud

c. Predictors in the Model: (Constant), S_ud, R_ud

d. Predictors in the Model: (Constant), S_ud, R_ud, SMSP_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	S_ud	R_ud
1	1	1.965	1.000	.02	.02	
	2	.035	7.533	.98	.98	
2	1	2.958	1.000	.00	.00	.00
	2	.040	8.561	.02	.68	.01
	3	.001	44.409	.98	.31	.99
3	1	3.464	1.000	.00	.00	.00
	2	.495	2.645	.00	.00	.00
	3	.039	9.379	.02	.72	.01
	4	.001	49.680	.98	.28	.99

Collinearity Diagnostics^a

Model Dimension		Variance Proportions
		SMSP_ud
1	1	
	2	
2	1	
	2	

	3	
3	1	.03
	2	.88
	3	.02
	4	.06

a. Dependent Variable: TSpaths_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00873748119 9205	.01263719797 1344	.01098901098 9011	.00050021656 2774
Std. Predicted Value	-4.501	3.295	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00846377573 9074	.01242128200 8290	.01097786685 0011	.00050124289 0094
Residual	- .00034063379 2803	.00133785943 0350	.00000000000 0000	.00036979425 4885
Std. Residual	-.906	3.557	.000	.983
Stud. Residual	-.913	3.972	.014	1.037
Deleted Residual	- .00035272297 1002	.00166794832 3302	.00001114413 9000	.00041281841 4726

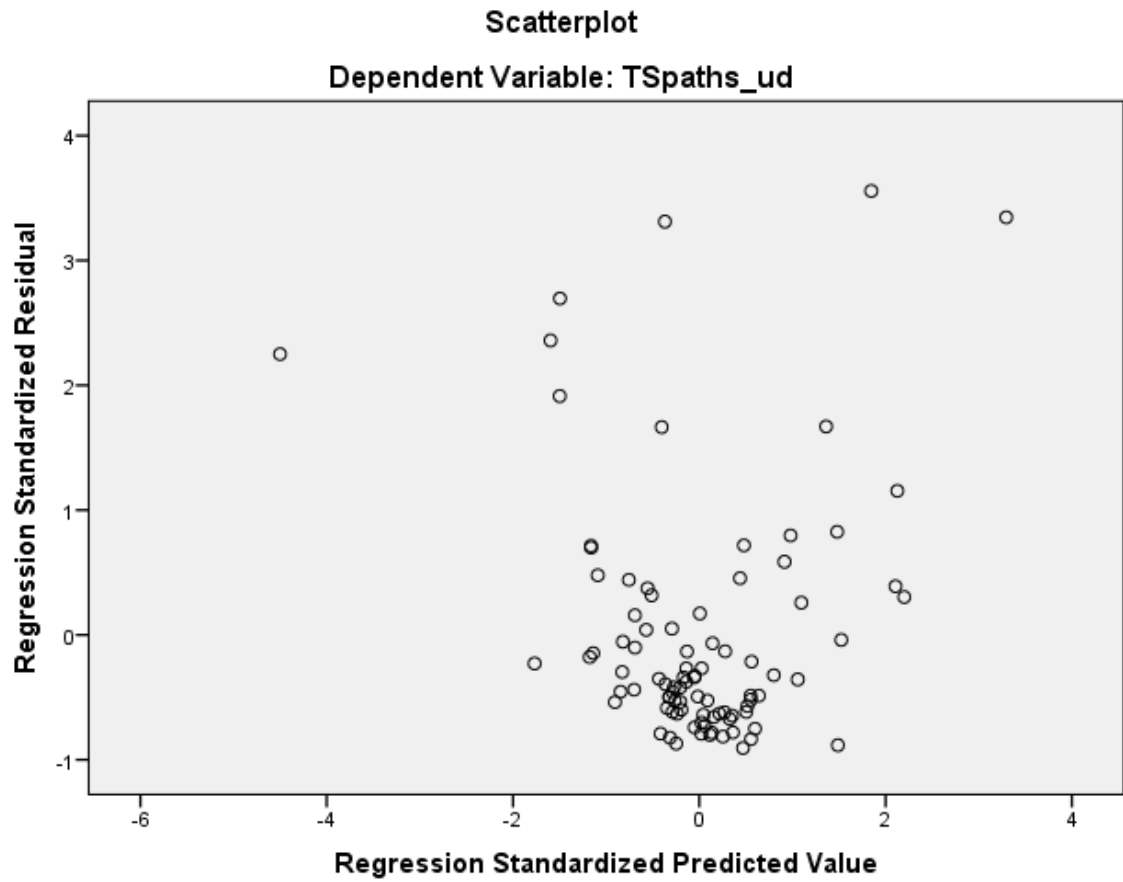
Stud. Deleted Residual	-.912	4.364	.029	1.082
Mahal. Distance	.044	22.666	2.967	4.984
Cook's Distance	.000	.973	.032	.131
Centered Leverage Value	.000	.252	.033	.055

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: TSpaths_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgPL_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created	28-MAY-2015 12:50:42	
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

		Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax			REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgPL_ud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time		00:00:00.20
	Elapsed Time		00:00:00.19
	Memory Required		6000 bytes
	Additional Memory Required for Residual Plots		0 bytes
Variables Created or Modified	COO_4		Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgPL_ud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.643 ^a	.413	.407	.00218861032 2922

a. Predictors: (Constant), R_ud

b. Dependent Variable: AvgPL_ud

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
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1	Regression	.000	1	.000	62.684	.000 ^b
	Residual	.000	89	.000		
	Total	.001	90			

a. Dependent Variable: AvgPL_ud

b. Predictors: (Constant), R_ud

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	-.017	.004		-4.768	.000
R_ud	2.522	.319	.643	7.917	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1 (Constant)			
R_ud		1.000	1.000

a. Dependent Variable: AvgPL_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	.063 ^b	.694	.489	.074	.811	1.233
	PL_TSpudN	-.098 ^b	-1.206	.231	-.128	.993	1.007
	S_ud	-.141 ^b	-1.368	.175	-.144	.615	1.625
	SMSP_ud	.022 ^b	.257	.797	.027	.879	1.138

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TpudN	.811	
	PL_TSpudN	.993	
	S_ud	.615	
	SMSP_ud	.879	

a. Dependent Variable: AvgPL_ud

b. Predictors in the Model: (Constant), R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
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		Index	(Constant)	R_ud
1	1	1.998	1.000	.00
	2	.002	30.551	1.00

a. Dependent Variable: AvgPL_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00371356541 2909	.01418581046 1640	.01098901098 9011	.00182652691 2920
Std. Predicted Value	-3.983	1.750	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00368750072 0844	.01423667743 8021	.01098728711 3922	.00182921141 5683
Residual	- .00411730492 4875	.00636455230 4149	.00000000000 0000	.00217641741 2882
Std. Residual	-1.881	2.908	.000	.994
Stud. Residual	-1.893	2.976	.000	1.004
Deleted Residual	- .00417069625 1094	.00666462583 4674	.00000172387 5089	.00221928101 7112
Stud. Deleted Residual	-1.922	3.118	.003	1.015
Mahal. Distance	.000	15.866	.989	2.835

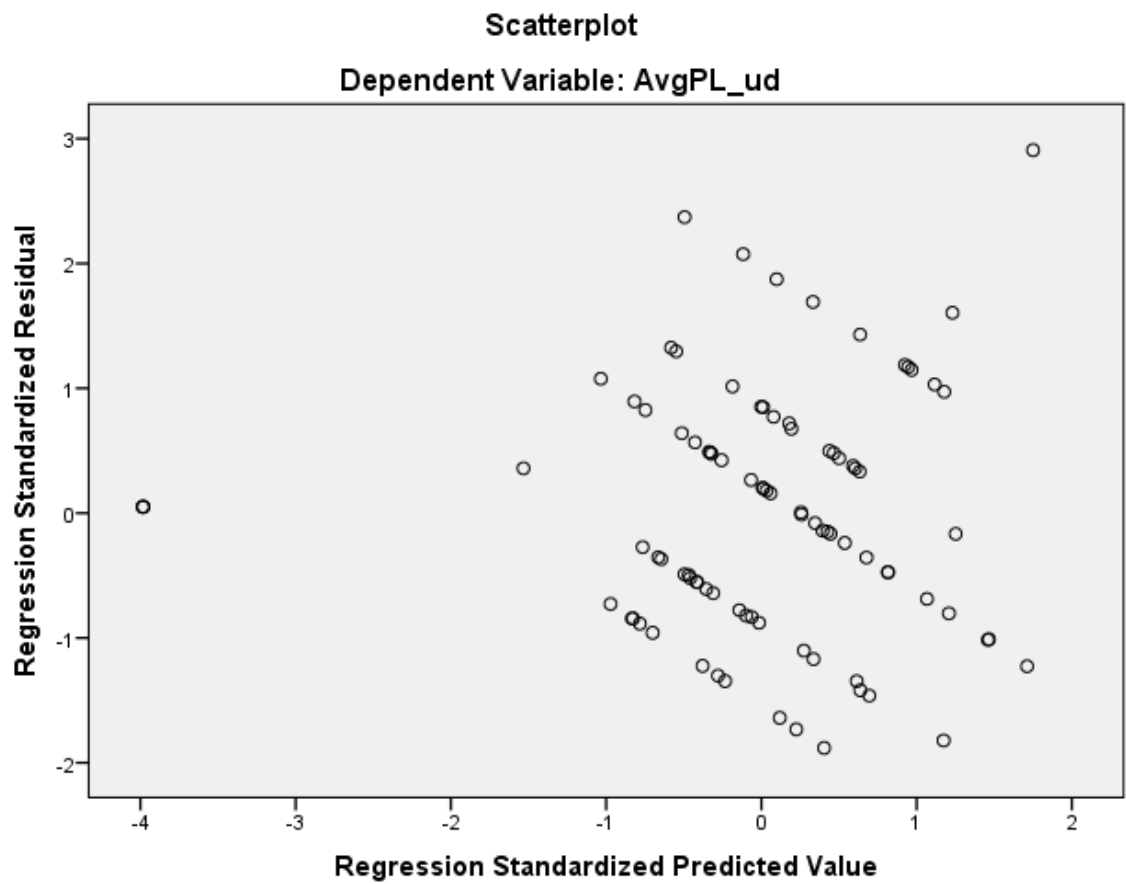
Cook's Distance	.000	.209	.010	.023
Centered Leverage Value	.000	.176	.011	.031

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgPL_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT AvgGL_ud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 12:51:06
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT AvgGL_ud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.17
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_5	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: AvgGL_ud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.667 ^a	.445	.439	.000879486423768
2	.729 ^b	.531	.521	.000812742569651

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, S_ud

c. Dependent Variable: AvgGL_ud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	71.402	.000 ^b
	Residual	.000	89	.000		
	Total	.000	90			
2	Regression	.000	2	.000	49.915	.000 ^c
	Residual	.000	88	.000		
	Total	.000	90			

a. Dependent Variable: AvgGL_ud

b. Predictors: (Constant), R_ud

c. Predictors: (Constant), R_ud, S_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.001	.001		-.637	.525

	R_ud	1.082	.128	.667	8.450	.000
2	(Constant)	-.003	.001		-2.366	.020
	R_ud	1.459	.151	.900	9.670	.000
	S_ud	-.147	.037	-.375	-4.027	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.615	1.625
	S_ud	.615	1.625

a. Dependent Variable: AvgGL_ud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.044 ^b	-.501	.618	-.053	.811	1.233
	PL_TSpudN	-.023 ^b	-.294	.769	-.031	.993	1.007
	S_ud	-.375 ^b	-4.027	.000	-.394	.615	1.625

	SMSP_ud	-.116 ^b	-1.380	.171	-.146	.879	1.138
2	PL_TpudN	-.032 ^c	-.393	.695	-.042	.810	1.235
	PL_TSpudN	-.062 ^c	-.845	.400	-.090	.977	1.024
	SMSP_ud	-.102 ^c	-1.312	.193	-.139	.877	1.140

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879
2	PL_TpudN	.546
	PL_TSpudN	.602
	SMSP_ud	.575

a. Dependent Variable: AvgGL_ud

b. Predictors in the Model: (Constant), R_ud

c. Predictors in the Model: (Constant), R_ud, S_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

			Index	(Constant)	R_ud	S_ud
1	1	1.998	1.000	.00	.00	
	2	.002	30.551	1.00	1.00	
2	1	2.958	1.000	.00	.00	.00
	2	.040	8.561	.02	.01	.68
	3	.001	44.409	.98	.99	.31

a. Dependent Variable: AvgGL_ud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00780770601 7047	.01269266009 3307	.01098901098 9011	.00085597387 8043
Std. Predicted Value	-3.717	1.990	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.00762152113 0204	.01274600345 6414	.01097332320 5610	.00087268259 4033
Residual	- .00140803726 3900	.00302736414 5964	.00000000000 0000	.00080366136 2060
Std. Residual	-1.732	3.725	.000	.989
Stud. Residual	-1.758	4.030	.009	1.022

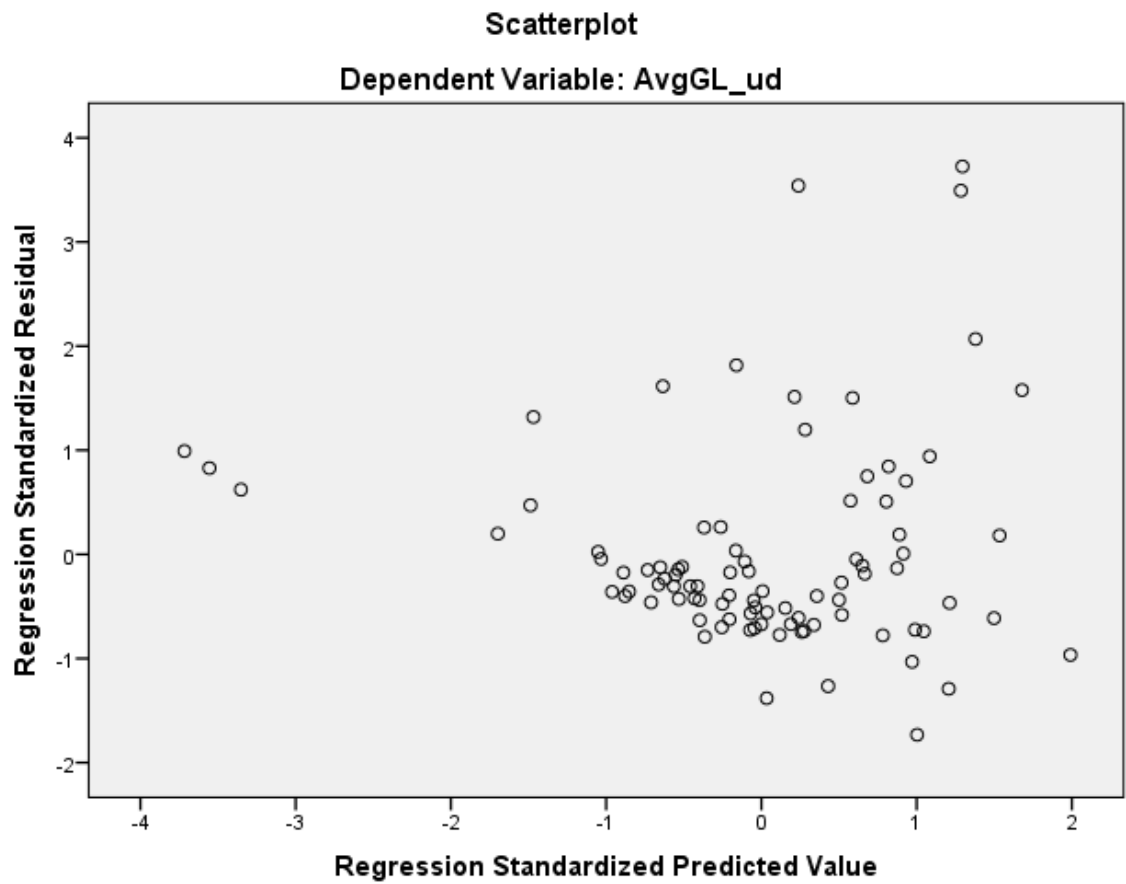
Deleted Residual	- .00144936586 7302	.00354367424 7339	.00001568778 3401	.00085984491 6635
Stud. Deleted Residual	-1.779	4.437	.022	1.065
Mahal. Distance	.017	20.754	1.978	3.769
Cook's Distance	.000	.923	.025	.107
Centered Leverage Value	.000	.231	.022	.042

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: AvgGL_ud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

```

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT ECud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 13:07:30
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION
		/MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT ECud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	5872 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_1	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
2	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: ECud

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.273 ^a	.075	.064	.00234721540 6155
2	.353 ^b	.125	.105	.00229596226 2107

a. Predictors: (Constant), R_ud

b. Predictors: (Constant), R_ud, PL_TpudN

c. Dependent Variable: ECud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	7.182	.009 ^b
	Residual	.000	89	.000		
	Total	.001	90			
2	Regression	.000	2	.000	6.262	.003 ^c
	Residual	.000	88	.000		
	Total	.001	90			

a. Dependent Variable: ECud

b. Predictors: (Constant), R_ud

c. Predictors: (Constant), R_ud, PL_TpudN

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.

		B	Std. Error	Beta		
1	(Constant)	.021	.004		5.595	.000
	R_ud	-.916	.342	-.273	-2.680	.009
2	(Constant)	.023	.004		6.098	.000
	R_ud	-1.277	.371	-.381	-3.441	.001
	PL_TpudN	.167	.075	.248	2.240	.028

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000
2	(Constant)		
	R_ud	.811	1.233
	PL_TpudN	.811	1.233

a. Dependent Variable: ECud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	.248 ^b	2.240	.028	.232	.811	1.233

	PL_TSpudN	.021 ^b	.199	.842	.021	.993	1.007
	S_ud	.104 ^b	.802	.425	.085	.615	1.625
	SMSP_ud	-.094 ^b	-.866	.389	-.092	.879	1.138
2	PL_TSpudN	.014 ^c	.143	.886	.015	.993	1.008
	S_ud	.094 ^c	.737	.463	.079	.614	1.627
	SMSP_ud	-.102 ^c	-.958	.341	-.102	.878	1.139

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879
2	PL_TSpudN	.808
	S_ud	.546
	SMSP_ud	.735

a. Dependent Variable: ECud

b. Predictors in the Model: (Constant), R_ud

c. Predictors in the Model: (Constant), R_ud, PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions		
				(Constant)	R_ud	PL_TpudN
1	1	1.998	1.000	.00	.00	
	2	.002	30.551	1.00	1.00	
2	1	2.938	1.000	.00	.00	.01
	2	.060	6.978	.01	.01	.86
	3	.002	39.601	.99	.99	.13

a. Dependent Variable: ECud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00925727281 7194	.01288527529 6867	.01098901098 9011	.00085646370 2459
Std. Predicted Value	-2.022	2.214	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00932507123 7981	.01307795103 6394	.01100221947 7793	.00087679458 4820
Residual	- .01041911356 1511	.00281326635 7407	.00000000000 0000	.00227030824 7289
Std. Residual	-4.538	1.225	.000	.989

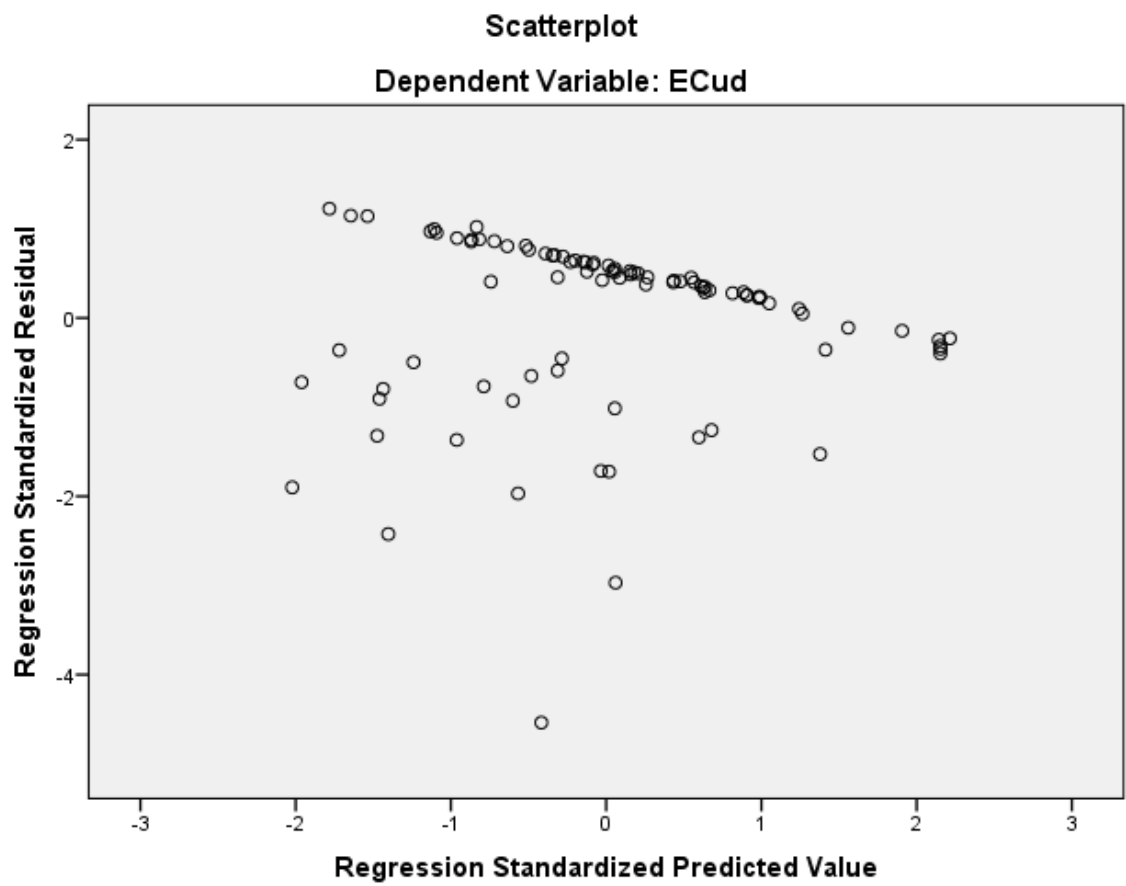
Stud. Residual	-4.568	1.255	-.003	1.001
Deleted Residual	-	.00295037543	-	.00232670282
	.01055850554	4011	.00001320848	7887
	2576		8782	
Stud. Deleted Residual	-5.201	1.259	-.014	1.044
Mahal. Distance	.001	18.028	1.978	3.670
Cook's Distance	.000	.093	.008	.016
Centered Leverage Value	.000	.200	.022	.041

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: ECud

Charts



REGRESSION

```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT PL_EVCud

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 13:07:52
Comments		
Input	Active Dataset	DataSet2
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	Weight	<none>
	Split File	<none>

	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT PL_EVCud /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.20
	Elapsed Time	00:00:00.26
	Memory Required	5920 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_2	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	R_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: PL_EVCud

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.303 ^a	.092	.082	.00157366063 6259

a. Predictors: (Constant), R_ud

b. Dependent Variable: PL_EVCud

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	8.987	.004 ^b
	Residual	.000	89	.000		
	Total	.000	90			

a. Dependent Variable: PL_EVCud

b. Predictors: (Constant), R_ud

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.003	.003		1.365	.176
	R_ud	.687	.229	.303	2.998	.004

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	R_ud	1.000	1.000

a. Dependent Variable: PL_EVCud

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	.065 ^b	.575	.567	.061	.811	1.233
	PL_TSpudN	.025 ^b	.242	.809	.026	.993	1.007
	S_ud	.165 ^b	1.289	.201	.136	.615	1.625
	SMSP_ud	-.013 ^b	-.122	.903	-.013	.879	1.138

Excluded Variables^a

Model		Collinearity Statistics
		Minimum Tolerance
1	PL_TpudN	.811
	PL_TSpudN	.993
	S_ud	.615
	SMSP_ud	.879

a. Dependent Variable: PL_EVCud

b. Predictors in the Model: (Constant), R_ud

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	R_ud
1	1	1.998	1.000	.00	.00
	2	.002	30.551	1.00	1.00

a. Dependent Variable: PL_EVCud

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00900830700 9935	.01185932382 9412	.01098901098 9011	.00049726296 9939
Std. Predicted Value	-3.983	1.750	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00906789209 6937	.01185061223 8050	.01099049711 5623	.00048726807 5950
Residual	- .00395696563 6462	.00266178208 4033	.00000000000 0000	.00156489365 6422
Std. Residual	-2.514	1.691	.000	.994
Stud. Residual	-2.542	1.707	.000	1.003
Deleted Residual	- .00404343660 9209	.00271158618 8525	- .00000148612 6612	.00159148305 6104

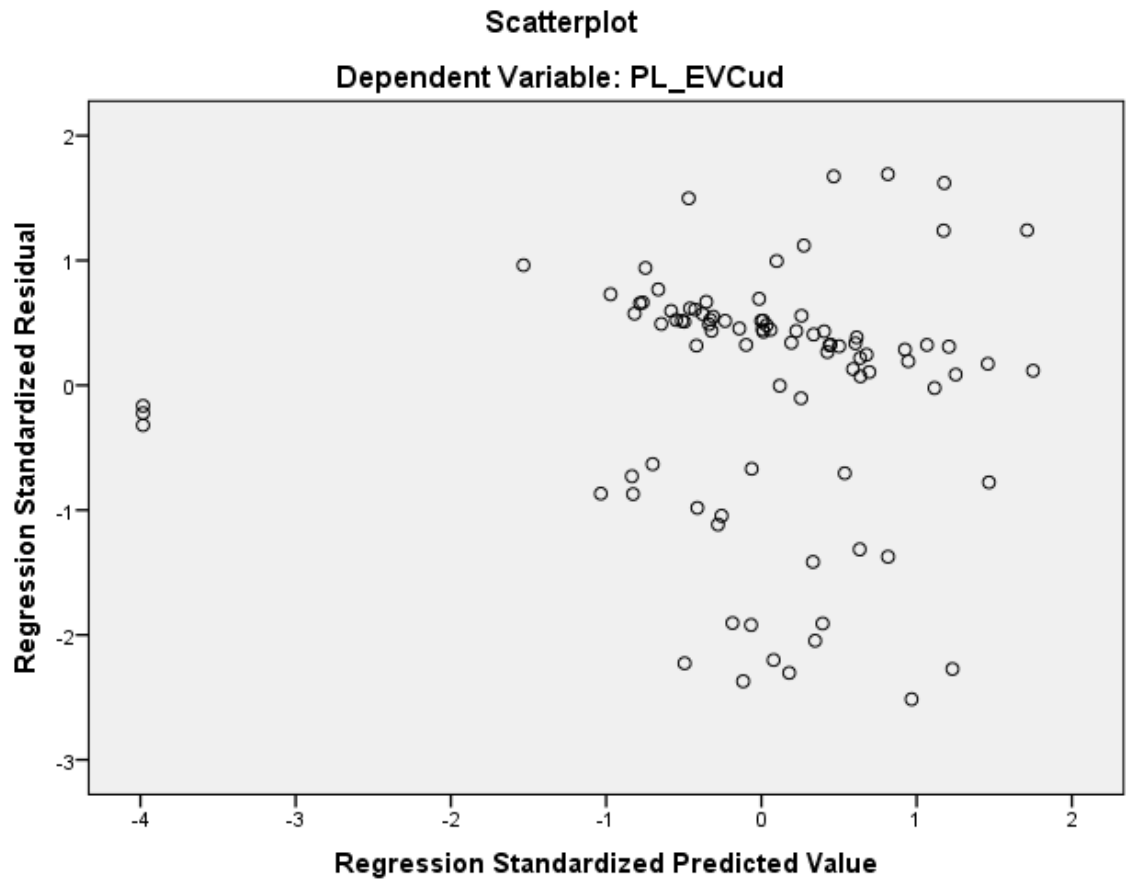
Stud. Deleted Residual	-2.625	1.726	-.006	1.016
Mahal. Distance	.000	15.866	.989	2.835
Cook's Distance	.000	.076	.008	.014
Centered Leverage Value	.000	.176	.011	.031

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: PL_EVCud

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

```

/DEPENDENT EVCud_TpudN

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

```

Regression

Notes

Output Created		28-MAY-2015 13:08:08
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TpudN /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.19
	Elapsed Time	00:00:00.20
	Memory Required	5952 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_3	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).

a. Dependent Variable: EVCud_TpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.777 ^a	.603	.599	.002599512709026

a. Predictors: (Constant), PL_TpudN

b. Dependent Variable: EVCud_TpudN

ANOVA^a

Model	Sum of Squares	df	Mean Square	F	Sig.
-------	----------------	----	-------------	---	------

1	Regression	.001	1	.001	135.361	.000 ^b
	Residual	.001	89	.000		
	Total	.002	90			

a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.001	.001		1.415	.160
	PL_TpudN	.887	.076	.777	11.634	.000

Coefficients^a

Model		Collinearity Statistics	
		Tolerance	VIF
1	(Constant)		
	PL_TpudN	1.000	1.000

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TSpudN	-.050 ^b	-.745	.458	-.079	.996	1.004
	S_ud	.067 ^b	.953	.343	.101	.912	1.096
	R_ud	.096 ^b	1.299	.197	.137	.811	1.233
	SMSP_ud	-.020 ^b	-.288	.774	-.031	.968	1.033

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TSpudN	.996	
	S_ud	.912	
	R_ud	.811	
	SMSP_ud	.968	

a. Dependent Variable: EVCud_TpudN

b. Predictors in the Model: (Constant), PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition	Variance Proportions
-------	-----------	------------	-----------	----------------------

		Index	(Constant)	PL_TpudN
1	1	1.951	1.000	.02
	2	.049	6.304	.98

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00124648353 0849	.02298762835 5622	.01098901098 9011	.00318799500 1121
Std. Predicted Value	-3.056	3.764	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00140807020 9436	.02453692816 1979	.01102009432 6946	.00326156189 9130
Residual	- .00765181658 7895	.00560083892 1964	.00000000000 0000	.00258503063 1391
Std. Residual	-2.944	2.155	.000	.994
Stud. Residual	-3.228	2.168	-.006	1.014
Deleted Residual	- .00920111685 9913	.00567183643 5795	- .00003108333 7935	.00269075497 0848
Stud. Deleted Residual	-3.416	2.215	-.007	1.027
Mahal. Distance	.001	14.165	.989	2.375

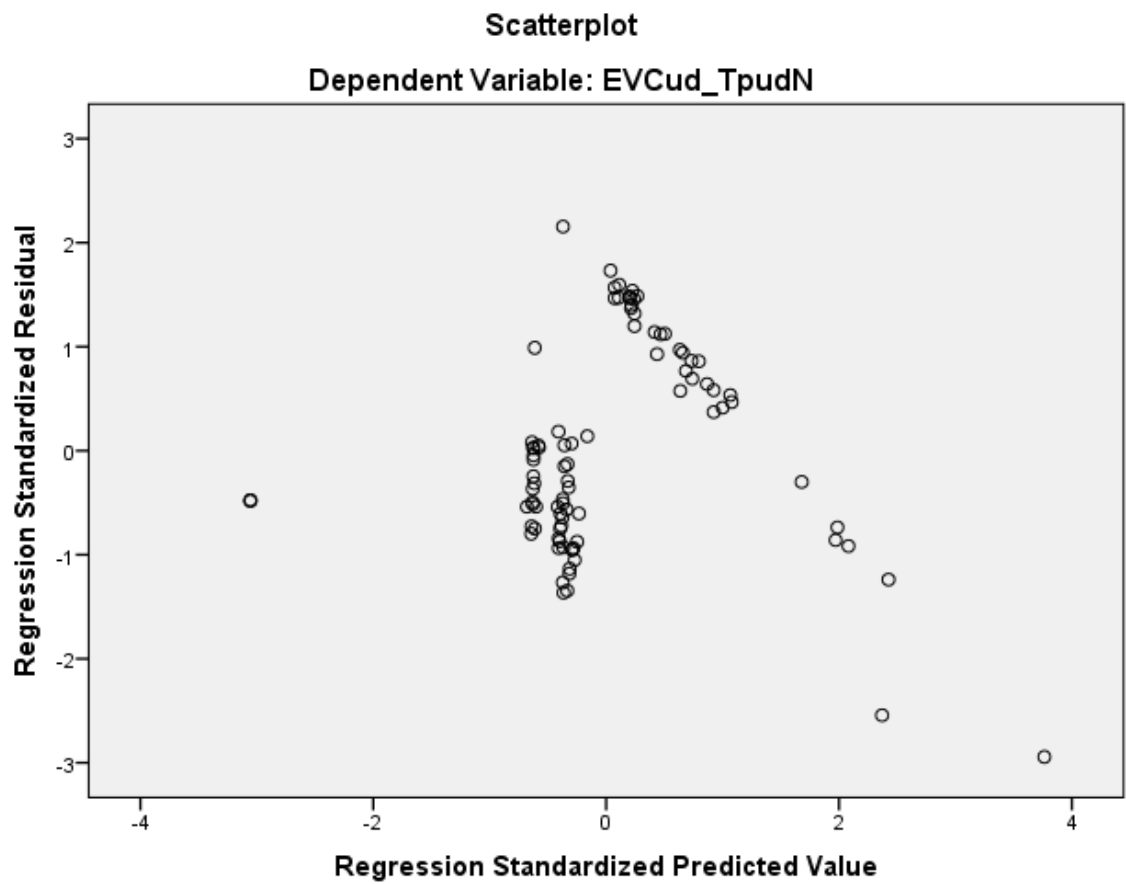
Cook's Distance	.000	1.055	.022	.113
Centered Leverage Value	.000	.157	.011	.026

Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 13:08:24
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	91
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCud_TSpudN
		/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.18
	Memory Required	6000 bytes
	Additional Memory Required for Residual Plots	0 bytes
Variables Created or Modified	COO_4	Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	S_ud		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCud_TSpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.211 ^a	.045	.034	.00023205913 4598

a. Predictors: (Constant), S_ud

b. Dependent Variable: EVCud_TSpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	1	.000	4.155	.044 ^b
	Residual	.000	89	.000		

Total	.000	90			
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a. Dependent Variable: EVCud_TSpudN

b. Predictors: (Constant), S_ud

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.011	.000		115.887	.000
S_ud	.017	.008	.211	2.038	.044

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
S_ud	1.000	1.000

a. Dependent Variable: EVCud_TSpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TpudN	-.032 ^b	-.296	.768	-.032	.912	1.096
	PL_TSpudN	.112 ^b	1.077	.284	.114	.998	1.002
	R_ud	-.223 ^b	-1.704	.092	-.179	.615	1.625
	SMSP_ud	-.060 ^b	-.559	.578	-.059	.938	1.066

Excluded Variables^a

Model			Collinearity Statistics
			Minimum Tolerance
1	PL_TpudN		.912
	PL_TSpudN		.998
	R_ud		.615
	SMSP_ud		.938

a. Dependent Variable: EVCud_TSpudN

b. Predictors in the Model: (Constant), S_ud

Collinearity Diagnostics^a

Model Dimension		Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	S_ud

1	1	1.965	1.000	.02	.02
	2	.035	7.533	.98	.98

a. Dependent Variable: EVCud_TSpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.01083735469 7287	.01117871887 9819	.01098901098 9011	.00004986242 7949
Std. Predicted Value	-3.041	3.805	.000	1.000
Standard Error of Predicted Value	.000	.000	.000	.000
Adjusted Predicted Value	.01081700716 1677	.01121665909 8864	.01099079617 6059	.00005206387 5469
Residual	- .00171819294 3372	.00127882382 3668	.00000000000 0000	.00023076631 5990
Std. Residual	-7.404	5.511	.000	.994
Stud. Residual	-7.797	5.552	-.004	1.031
Deleted Residual	- .00190543604 5490	.00129819090 9438	- .00000178518 7048	.00024848891 6322
Stud. Deleted Residual	-13.773	6.829	-.055	1.633
Mahal. Distance	.001	14.475	.989	2.202
Cook's Distance	.000	3.313	.041	.348

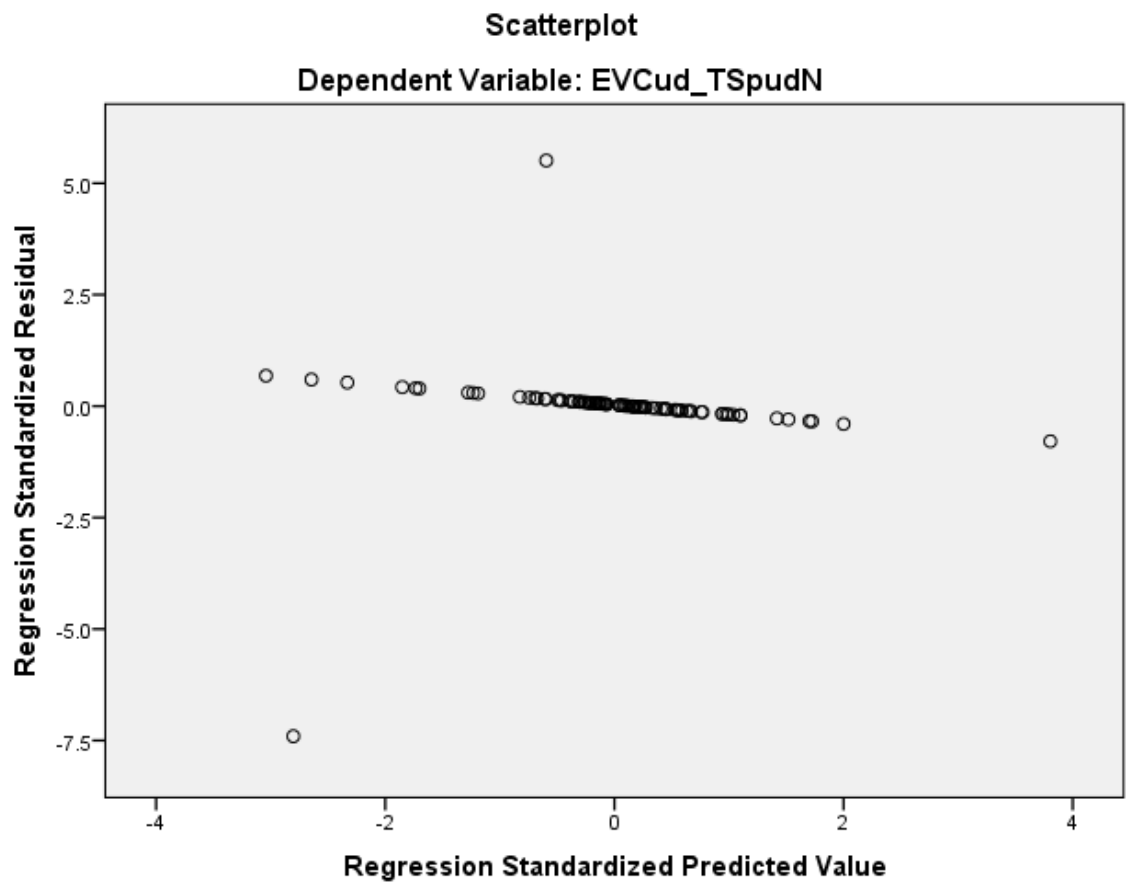
Centered Leverage Value	.000	.161	.011	.024
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Residuals Statistics^a

	N
Predicted Value	91
Std. Predicted Value	91
Standard Error of Predicted Value	91
Adjusted Predicted Value	91
Residual	91
Std. Residual	91
Stud. Residual	91
Deleted Residual	91
Stud. Deleted Residual	91
Mahal. Distance	91
Cook's Distance	91
Centered Leverage Value	91

a. Dependent Variable: EVCud_TSpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TpudN

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 13:09:35
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		/MISSING LISTWISE
		/STATISTICS COEFF OUTS R ANOVA COLLIN TOL
		/CRITERIA=PIN(.05) POUT(.10)
		/NOORIGIN
		/DEPENDENT EVCud_TpudN
		/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud
		/SCATTERPLOT=(*ZRESID ,*ZPRED)
		/SAVE COOK.
Resources	Processor Time	00:00:00.17
	Elapsed Time	00:00:00.25
	Memory Required	6032 bytes
	Additional Memory Required for Residual Plots	0 bytes
	Variables Created or Modified	COO_5 Cook's Distance

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
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1	PL_TpudN		Stepwise (Criteria: Probability-of- F-to-enter <= .050, Probability-of- F-to-remove >= .100).
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a. Dependent Variable: EVCud_TpudN

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.802 ^a	.644	.640	.00246994643 1468

a. Predictors: (Constant), PL_TpudN

b. Dependent Variable: EVCud_TpudN

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.001	1	.001	157.278	.000 ^b
	Residual	.001	87	.000		

Total	.001	88			
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a. Dependent Variable: EVCud_TpudN

b. Predictors: (Constant), PL_TpudN

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.000	.001		.211	.834
PL_TpudN	.992	.079	.802	12.541	.000

Coefficients^a

Model	Collinearity Statistics	
	Tolerance	VIF
1 (Constant)		
PL_TpudN	1.000	1.000

a. Dependent Variable: EVCud_TpudN

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
						Tolerance	VIF
1	PL_TSpudN	-.027 ^b	-.418	.677	-.045	1.000	1.000
	S_ud	.030 ^b	.436	.664	.047	.894	1.119
	R_ud	.062 ^b	.864	.390	.093	.794	1.259
	SMSP_ud	-.018 ^b	-.281	.779	-.030	.975	1.026

Excluded Variables^a

Model		Collinearity Statistics	
		Minimum Tolerance	
1	PL_TSpudN	1.000	
	S_ud	.894	
	R_ud	.794	
	SMSP_ud	.975	

a. Dependent Variable: EVCud_TpudN

b. Predictors in the Model: (Constant), PL_TpudN

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	PL_TpudN

1	1	1.957	1.000	.02	.02
	2	.043	6.716	.98	.98

a. Dependent Variable: EVCud_TpudN

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation
Predicted Value	.00018915896 3622	.01974982954 5617	.01096976080 8178	.00330202101 6838
Std. Predicted Value	-3.265	2.659	.000	1.000
Standard Error of Predicted Value	.000	.001	.000	.000
Adjusted Predicted Value	.00021801643 0154	.02028703689 5752	.01098776463 1864	.00334379996 3007
Residual	- .00761986523 8667	.00563550926 7449	.00000000000 0000	.00245587254 8065
Std. Residual	-3.085	2.282	.000	.994
Stud. Residual	-3.230	2.296	-.004	1.008
Deleted Residual	- .00835508666 9326	.00570818223 0592	- .00001800382 3686	.00252712073 3173
Stud. Deleted Residual	-3.424	2.356	-.004	1.021
Mahal. Distance	.006	10.659	.989	2.258
Cook's Distance	.000	.503	.015	.056

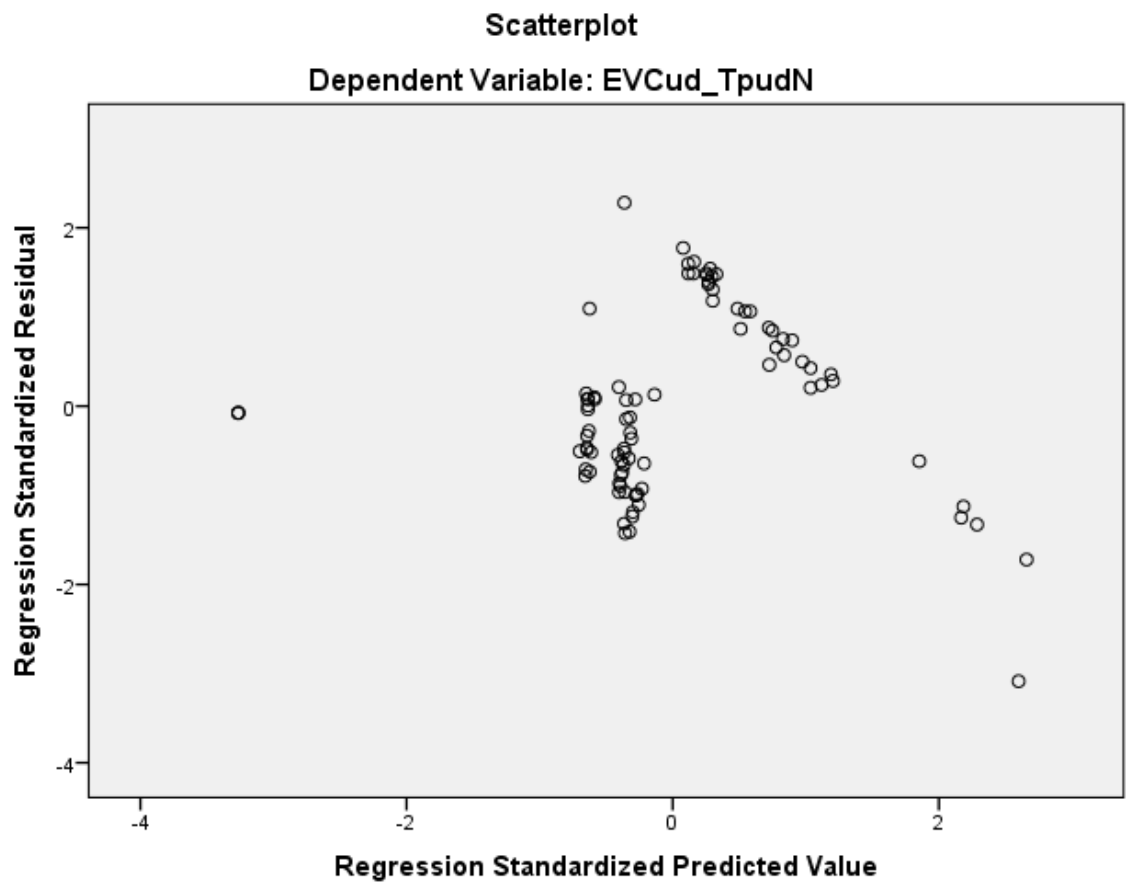
Centered Leverage Value	.000	.121	.011	.026
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Residuals Statistics^a

	N
Predicted Value	89
Std. Predicted Value	89
Standard Error of Predicted Value	89
Adjusted Predicted Value	89
Residual	89
Std. Residual	89
Stud. Residual	89
Deleted Residual	89
Stud. Deleted Residual	89
Mahal. Distance	89
Cook's Distance	89
Centered Leverage Value	89

a. Dependent Variable: EVCud_TpudN

Charts



REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT EVCud_TSpudN

/METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud

/SCATTERPLOT=(*ZRESID ,*ZPRED)

/SAVE COOK.

Regression

Notes

Output Created		28-MAY-2015 13:09:50
Comments		
Input	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	89
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA COLLIN TOL /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT EVCud_TSpudN /METHOD=STEPWISE PL_TpudN PL_TSpudN S_ud R_ud SMSP_ud /SCATTERPLOT=(*ZRESID ,*ZPRED) /SAVE COOK.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03
	Memory Required	6080 bytes
	Additional Memory Required for Residual Plots	0 bytes
	Variables Created or Modified	COO_6 Cook's Distance

Warnings

No variables were entered into the equation.